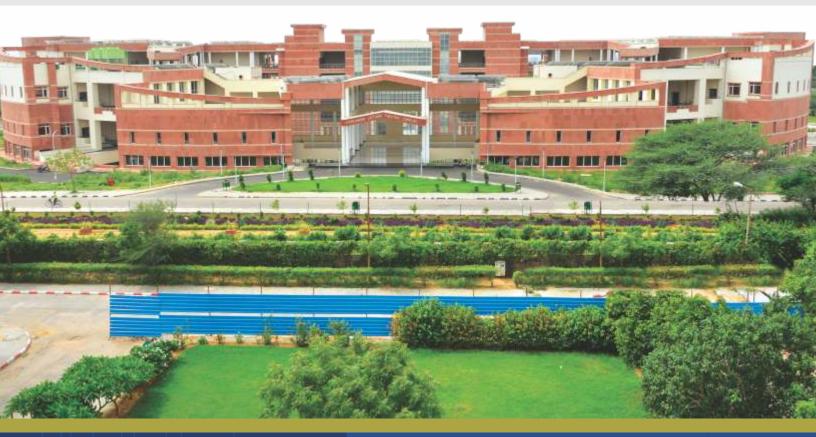
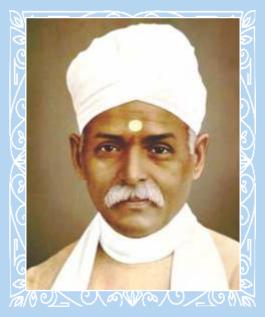
# Annual Report & Annual Accounts 2016-17





Malaviya National Institute of Technology Jaipur



# Bharat Ratna Pt. Madan Mohan Malaviya



# VISION

To create a center for imparting technical education of international standards and conducting research at the cutting edge of technology to meet the current and future challenges of technological development.

# MISSION

To create technical manpower for meeting the current and future demands of industry. To reorganize education and research in close interaction with industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the Institute with sensitivity to social development and eye for opportunities for growth in the international perspective.



# Annual Report & Annual Accounts 2016-17



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR - 302017





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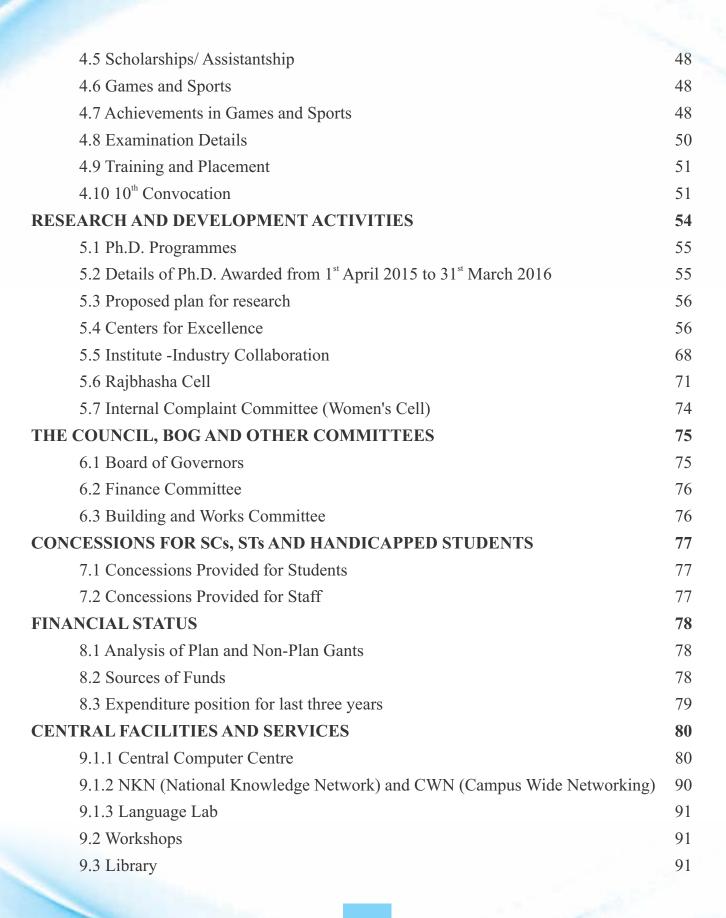


# Part - 1 Annual Report



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# MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR ANNUAL REPORT 2016-17



# **ACADEMIC PROGRAMMES**

At present the Institute offers four-year UG courses leading to the B. Tech. degree and five years of Bachelor of Architecture degree. The PG courses of two years duration provide advance learning of the specialized area and thus prepare human resources possessing advance knowledge in the field of Engineering and Technology/ Management/Sciences. The Institute also offers a full-time/part-time advance programme leading to the Ph.D. degree in the areas of Engineering/Technology/Management/ Sciences/Humanities & Social Sciences.

#### (a) Undergraduate Programmes (Technology/Architecture)

S. No.	Discipline/Duration	Year of starting
1.	Architecture (5 years)	1988
2.	Civil Engg. (4 years)	1963
3.	Chemical Engg. (4 years)	1988
4.	Computer Science & Engineering (4 years)	1994
5.	Electrical Engg. (4 years)	1963
6.	Electronics & Communication Engg. (4 years)	1984
7.	Mechanical Engg. (4 years)	1963
8.	Metallurgical & Materials Engg. (4 years)	1963

#### (b) Postgraduate Programmes (Technology/Science/Management) Academic Programmes leading to M. Tech./M.Plan./M.B.A./M.Sc. Degree as noted below:

S. No.	Department	Programme	Year of starting
1.	Centre for Energy & Environment	Renewable Energy	2013
2.	Chemical Engineering	Chemical Engineering	2006
3.	Civil Engineering	Environmental Engineering	1989
4.	Civil Engineering	Water Resources Engineering	1985
5.	Civil Engineering	CAD/Structural Engineering	1996/2006
6.	Civil Engineering	Transportation Engineering	1996
7.	Civil Engineering	Disaster Assessment and Mitigation	2010
8.	Computer Science & Engineering	Computer Engineering	2008
9.	Computer Science & Engineering	Computer Engineering & Information Security	2016
10.	Electrical Engineering	Power Systems	1987
11.	Materials Research Centre	Material Science & Engineering	2016
12.	Electrical Engineering	Power Electronics & Drives	2015
13.	Electronic & Communication Engg.	VLSI Design	2006
14.	Electronic & Communication Engg.	Wireless & Optical Communication	2014
15.	Electronic & Communication Engg.	Embedded Systems	2014





S. No.	Department	Programme	Year of starting
16.	Electronics & Communication	Electronics & Communication	1992
	Engineering	Engineering	
17.	Mechanical Engineering	Manufacturing System Engg./ Industrial Engineering	1996/2013
18.	Mechanical Engineering	Energy/Thermal Engineering	2006/2013
19.	Mechanical Engineering	Production Engineering	2013
20.	Mechanical Engineering	Design Engineering	2013
21.	Metallurgical & Materials Engg.	Non Ferrous Met./Metallurgical & Materials Engg	1971/2006
22.	Metallurgical & Materials Engg.	Steel Technology	2013
23.	Architecture & Planning	Urban Planning	2008
24.	National Centre of Disaster Mitigation & Management	Earthquake Engineering	2015
25.	Chemistry	M.Sc. Applied Chemistry	2006
26.	Mathematics	M.Sc. Applied Mathematics	2006
27.	Physics	M.Sc. Applied Physics	2006
28.	Management Studies	MMS/M.B.A.	1996/2006

#### **ADMISSION PROCEDURE**

#### (a) Undergraduate Programmes

Admissions are done through JEE (Main) conducted by the Central Seat Allocation Board i.e. CSAB and after online centralized counselling of JoSAA (Joint Seat Allocation Authority) on behalf of the Ministry of Human Resource Development, Govt. of India, New Delhi. The minimum academic qualification for admission through Joint Entrance Examination [JEE] (Main) is that the candidate must have passed in final examination of class 12th or equivalent qualifying examination. Foreign students are admitted through Direct Admission of Students Abroad (DASA), Indian Council for Cultural Relations (ICCR) and Ministry of External Affairs (MEA).

#### (b) Postgraduate Programmes

Admissions for M. Tech/M.Plan. are done (i) for full time through score in GATE conducted by IIT through Centralized Counselling for M.Tech./M.Arch./M.Plan. Admissions (CCMT) counselling and (ii) for sponsored candidates, whether full-time or part-time, through interview/test/GATE (depending on availability of seats)/Admissions to full time and part time (iii) M.Sc. admission are done through CCMN (Centralized Counseling for M.Sc./M.Sc. (Tech.) Admissions to NITs and CFTIs) (iv) Admissions to Master of Business Administration (MBA) & Ph.D. programmes are done through interview/tests conducted by individual Department.

# **BOARD OF GOVERNORS**

The Institute is managed by a Board of Governors which consists of

- a) The Chairperson (appointed by Visitor)
- b) The Director, *Ex officio*
- c) Two persons not below the rank of Joint Secretary to the Government of India to be nominated by the Central Government from amongst persons dealing with technical education and finance.



- d) Two persons to be nominated by the Government of the State in which the institute is situated, from amongst persons who, in the opinion of that Government are technologists or industrialists of repute.
- e) Two persons, at least one of whom shall be a woman having special knowledge or practical experience in respect of education, engineering or science to be nominated by the Council; and
- f) One professor and one assistant professor or a lecturer of the institute to be nominated by the Senate.
- g) The Director of the Indian Institute of Technology in whose zone the Institute is located, or his nominee, not below the rank of a Professor.

Present composition of Board of Governors is given in Annexure 11.1

# FINANCE COMMITTEE

The Committee is constituted by Board of Governors which consists of

- (i) The Chairperson Board of Governors, Ex-officio Chairperson
- (ii) The Director, Ex-officio Member
- (iii) Joint Secretary dealing with National Institutes of Technology or his nominee and Financial Advisor (Human Resource Development) or his nominee members;
- (iv) Two persons nominated by the Board from amongst its members; and
- (v) The Registrar, Ex-officio, Member Secretary

Present composition of Finance Committee is given in Annexure 11.2

# **BUILDING AND WORKS COMMITTEE**

The Committee is constituted by Board of Governors which consists of

- (i) The Director, Ex-officio Chairman;
- (ii) One member nominated by the Central Government not below the rank of Director or Deputy Secretary;
- (iii) One member nominated by the Board of Governors
- (iv) Registrar, Ex-officio, Member Secretary
- (v) Dean Planning & Development or similar position Member and
- (vi) One expert each from Civil and Electrical Engineering Wing of Central or State Government or any autonomous body of repute Member

Present composition of Building and Works Committee is given in Annexure 11.2

# SENATE

The Senate of every Institute shall consist of the following:-

- (i) The Director, ex officio, who shall be the Chairman of the Senate;
- (ii) The Deputy Director, ex officio;
- (iii) The Professors appointed or recognised as such by the Institute for the purpose of imparting instruction in the Institute;



(iv) Three persons, one of whom shall be a woman, not being employees of the Institute, to be nominated by the Chairperson in consultation with the Director, from amongst educationists of repute, one each from the field of science, engineering and humanities; and

**MNIT JAIPUR** 

(v) Such other members of the staff as may be laid down in the Statutes.

Present composition of Senate is given in Annexure 11.2

#### STAFF

The details of teaching, administrative and other staff are given in chapter 3.1 and 3.2.

# ACADEMIC DEPARTMENTS

The detailed information about the academic departments of the Institute including participation of faculty members in Seminars, Symposia, Workshops and summer/winter schools and organization of various academics activities by the faculty members are listed in chapter 11.5. Sponsored research projects/consultancy worth more than 2.76 Crores are currently under progress at the institute. The consultancy revenue generation has also increased in the Institute. The Institute is a part of Technical Education Quality Improvement Programme (TEQIP), Phase II.

The details regarding the research projects and consultancy projects are listed in chapter 11.3. The research output in the form of publication is journals/conference proceedings/books are given in chapter 11.9. A large number of M.Tech and Ph.D. students are carrying out research for their dissertation/Thesis work. The details of each candidate along with his area of research are given in chapter 11.7

# **EXAMINATION AND EVALUATION**

#### **Best Practices**

# Academic:

A continuous process of evaluation in each semester is the highlight of the grading system. Each student is assessed on the basis of his/her performance in tutorials practicals class assignments, home assignments, term papers, seminars, quizzes, Mid term and End term examinations.

To ensure maximum transparency in the appraisal of the academic performance, the answer sheets of the Mid- & End term examination are shown and discussed with the students.

Subject to fulfilling the minimum requirement for continuation, a student is allowed to progress at an optimum pace, suited to his/her ability and convenience.

Each course has a number of credits and this number defines the weightage of this course. The performance of the student is measured in terms of the number of credits he/she has successfully completed. A minimum Grade Point Average is mandatory to be maintained for satisfactory progress. A minimum number of credits and CGPA is mandatory to qualify for the degree.

A Course coordinator is designated for every course. He/she shoulders the full responsibilities for the conduct of the course, coordinating the work of other members of the faculty involved in the teaching and evaluation of the course. The student may approach the course coordinator for any matter related to the course.

# Grading System:

The academic performance is graded on a ten-point scale. With the exception of Audit courses, the letter grade is awarded for each course and is converted into Semester Grade Point Average and Cumulative Grade Point Average called the SGPA & the CGPA respectively.



A number of scholarships are available to the students on merit or merit cum need basis. The scholarships are extended to the students of U.G., P.G. and Ph.D programmes of the institutes. Some of the prominent funding agencies for the assistantships are the MHRD, the AICTE, Ministry of Urban Development CSIR, SAIL, ONGC, Ministry of Social Justice, Ministry of Tribal Affairs NCPEDP, NTPC Ltd, Ministry of Minority Affairs, NCERT, and Boards of Higher Education of various states. Many scholarships are sponsored by individuals. The details are given in annexure 11.10.

#### **Training & Placement:**

The Placement Cell has been active in arranging training and placement for students. This year a total of 120 companies visited the Campus and selected 489 (415 B.Tech and 74 PG Courses) students. Highest and Average Packages offered by companies were Rs. 29.00 LPA to 3 B. Tech students of Computer Science & Engineering by DE Shaw & 12 students was given Pre Placement Offers (PPOs), and the average package of placed students (B.Tech) was 6.95 LPA.

The details are given in annexure 11.11.

#### Library:

The Library underwent a massive renovation in the year 2011-12 and since then there has been a continuous augmentation in access to books journals, e-journals, e-granthalayas. The academic departments are periodically requested to furnish their requirements and these are then processed & procured with streamlined system. Following recent developments have been taken place in the Central Library. Library Database on KOHA (Library Management Software), RFID System for Smart Circulation with Gate Antenna, Smart Card Technology. The details are given at 9.3.

#### **Hostels:**

There are twelve hostels for the students of our Institute, nine for boys and three for girl students. The total capacity of hostels for male candidates is around 2500 and that for female candidates is around 650. Apart from accommodation for regular students, we have 60 well furnished guest rooms (40 for male candidates and 20 for female candidates) for research scholars, trainees of short term training programs, etc., who visit MNIT for short durations.

The hostels are equipped with modern facilities like net connectivity through Wi-Fi/ LAN, automatic laundry facilities, solar geysers etc.; all hostels have manned security round the clock. All the hostel premises have large open areas with good landscaping and playgrounds.

The details are given in chapter 4.5.

#### Games & Sports:

The department has been active in promoting sports activities and their effort can be seen in the increased participation of students on a regular basis as well as in tournament and events.

Our students have won several prizes at tournaments held in other institutes/ states.

The Advani Memorial Basketball (AIAMBT) tournament has been revived and is being organized with great enthusiasm since the last 5 years.

Date:

**Place: Jaipur** 

Director





# MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR ANNUAL REPORT YEAR 2016-17

# **1. INTRODUCTION**

# 1.1 VISION AND MISSION STATEMENT

#### VISION

To create a center for imparting technical education of international standards and conducting research at the cutting edge of technology to meet the current and future challenges of technological development.

#### MISSION

To create technical manpower for meeting the current and future demands of industry. To reorganize education and research in close interaction with industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the Institute with sensitivity to social development and eye for opportunities for growth in the international perspective.

# **1.2 QUALITY POLICY**

The MNIT shall strive to impart knowledge in such a manner as to achieve total satisfaction of students, parents, employers, and the society.

#### Institute Motto

Excellence can be achieved only through perseverance and hard work.

# **1.3 EDUCATION SYSTEM**

The Institute is a centrally funded technical institute and awards its own degree. Semester scheme is followed for both undergraduate and postgraduate courses.

The academic performance of a student is graded on a ten-point scale; the letter grades awarded to a student in all the courses (except audit courses) are converted into a semester and cumulative performance index called the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively. A system of feedback by the students about the instructor and the course is also in practice.

# **1.4 NEWINITIATIVES**

#### Infrastructure Development

An ultra-modern Corporate Office and Computer Centre have been developed and a Digital Library is being developed, having a carpet area of 20,000 square meters, for the students and faculty members of the institute. The building houses the entire Administrative and Accounts Section, Establishment and Academic Staff office, Director's office, Deans' office, Registrar's office, Training & Placement office with banking



and post office services. It has state of the art computer labs, automated solutions of IT resources with single interface for administration for entire IT infrastructure.

**The Vivekananda Lecture Complex:** The complex has 34,360 square meters covered area and has been built at an expenditure of Rs 80 crores. The building is centrally air-conditioned with 43 theatres with a seating capacity of 120 and 6 theatres with a seating capacity of 240. These classrooms will be smart classrooms and will be equipped with all needful systems. As a commitment towards green buildings, solar panels are being put up on almost all Institute buildings to generate electricity.

**Two entire floors** are being added to the **Electronic and Communication Engineering Department building** with a focus on developing sophisticated laboratories. The Institute has renovated and rehabilitated its old laboratories in most of the departments like Architecture, Physics, Chemistry, Computer Science engineering, Metallurgy, Mechanical, Chemical and Electrical engineering departments. Looking at the shortage of residences, **new residential apartments** called the **Acharya Bhawan** with 198 quarters is additionally being constructed to accommodate the faculty members on the campus.

Towards developing sports infrastructure for students and faculty, the Institute has developed **three new synthetic tennis courts** with flood lights which are of international standards.

**Data Centre and Language Lab:** The Centre has 510 high-end PCs including 120 graphics work stations placed in 10 computer laboratories which provide computational environment to all students, faculty and researchers. A Data Centre with Private Cloud using VMware Cloud Suite has also been established in the centre. MNIT private cloud is housing various services like LDAP, DNS; web applications like "mnit" and "nit council" portals; and various software license servers like MATLAB, Hyperworks, Auto CAD, Auto Desk, LMS, and Antivirus etc.

The Data Centre is also equipped with 60 TB of storage from EMC. The Data Centre Storage is being used for keeping video lectures of Virtual Class Room as well an e-contents uploaded by various departments, E-mail archival; and various other softwares. The language lab is equipped with the latest software for language learning.



# 2. AN OVERVIEW

#### 2.1 HISTORICAL BACKGROUND

Established in 1963 as a joint venture of the Government of India and the Government of Rajasthan, The Malaviya Regional Engineering College, Jaipur started functioning with 30 students each in Electrical Engg. and Mechanical Engg. The college shifted to the present campus in Jaipur in 1965. Spread over 125 hectares of lush greenery, the campus of MNIT enthrals and inspires. Indeed, all the states and union territories of the country are represented in the undergraduate intake of the Institute (50% from Rajasthan & the 50% from all other states & union territories of India), thus making it a perfect example of the celebrated axiom, 'unity in diversity'.

The great educationist and visionary, Prof. V. G. Garde, as its first Principal, moulded its destiny, with his characteristic élan, into a renowned Institute. The effort to maintain the high standard and committed approach of the College to the cause of technical excellence was recognized by the Ministry for Human Resource Development and University Grants Commission, New Delhi which granted it the status of a National Institute of Technology and Deemed University on June 26, 2002. It is one of the 30 NITs established in different states of the country. Through an Act of Parliament, it has been granted the status of a Centre of Excellence since 15<sup>th</sup> August 2007. Governed by the NIT Council, the Institute has four statutory bodies, namely, the Board of Governors, the Finance Committee, the Building and Works Committee and the Senate. The Institute is fully funded by MHRD, the Government of India, New Delhi.

The Institute is under the administrative control of a Board of Governors. It is authorized by the Parliament to award its own degree.

There are fourteen departments and six centres viz. Architecture, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Electronics & Communication Engineering, Mechanical Engineering, Metallurgical and Materials Engineering, Physics, Chemistry, Mathematics Management departments, Humanities and Social Sciences and Centre for Energy and Environment. The Six centres are Centre of Excellence in Design, Materials Research Centre (MRC), Centre for Development of Stones, Advanced Research Tribology Lab, National Centre for Disaster Mitigation and Management and Data Centre.

The bedrock of any academic institution is the quality of its faculty and in this arena, MNIT is at the forefront. Our 198 full-time experienced faculties have a passion for teaching and an avowed commitment to R&D. The global perspective of the faculty makes the Institute a premier institute of learning in India. Majority of the faculty hold doctoral degrees. Quality teaching is what we aim at so as to stimulate intellectual curiosity, creativity and innovativeness. The Institute is actively engaged in research, consultancy and developmental activities and collaborates with leading industrial houses and IT companies under various projects.

The Institute is a part of the World Bank supported Technical Education Quality Improvement Programme (TEQIP) phase III implemented by the National Project Implementation Unit (NPIU).





The performance of the Institute in phase II of the project has been creditable.

The Institute has residential facilities for boys as well as girls in its campus. The hostel facility to the maximum extent of accommodation available is also provided to the students of the Institute.

# 2.2 LOCATION

The Institute is based in Jaipur which is a lively and vibrant city. Situated in Northern India at a distance of around 260 km south of Delhi, Jaipur would have been a part of the Thar Desert, but for the Aravalli Hills that provide it with much needed security from one side. Jaipur offers a multitude of interesting places and attractions, such as lush parks and places for recreation. There are several magnificent places and forts such as the City Palace, Amber and Nahargarh. It is a city of fun, food and festivals. Vibrant colours, likely folk music and dance performances mark the celebrations of every religious occasion and every change of season. It is, indeed, the 'Pink City', a heady mix of tradition & modernity, vibrant with recreational, social as well as educational experiences for the students. It has all the facilities and entertainment a student needs; excellent shops, restaurants, clubs, sports facilities and a thriving cultural scene.

The Institute is located in Malaviya Nagar on Jawahar Lal Nehru Marg. The main Railway Station and Bus Stand are approximately 10 km from the Institute whereas the Airport is about 5 km away located at Sanganer. Frequent city transport and private transport services are available for the Institute from every point of the city.

# 2.3 CAMPUS

The campus of the Institute is spread over an area of 125 hectares. It presents a spectacle of harmony in modern architecture, natural beauty and picture. The campus area has been organized into three functional sectors:

- Hostels for students
- Instructional buildings
- Residential sector for the staff

The instructional buildings have been so located that these are fairly near to both the hostels and the staff quarters and are at a walking distance from both. There is a branch of ICICI Bank on the premises and a Post-office in the campus. A full-fledged dispensary is supervised by a team of Medical Officers and two Compounders. The Institute has also been extending facility of a Part-time Homeopathic doctor and Ayurvedic doctor in the campus. Adequately equipped Canteen buildings, one near the instructional zone and another near the hostels provide facilities to the students and the staff during and beyond the working hours of the Institute.

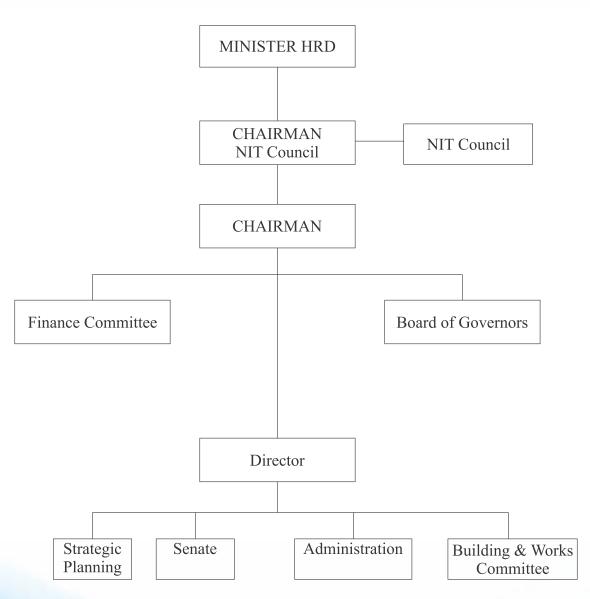
# 2.4 ADMINISTRATION

The Institute, being an autonomous Institution, is administered by Board of Governors, which consists of (i) Chairperson (appointed by Visitor) (ii) the Director, *ex officio* (iii) two persons not below the rank of Joint Secretary to the Government of India to be nominated by the central Government from amongst persons



dealing with technical education and finance, (iv) two persons to be nominated by the Government of the state in which the institution is situated, from amongst persons who, in the opinion of that Government are technologists or Industrialists of repute, (v) two persons, at least one of whom shall be a woman having special knowledge or practical experience in respect of education, engineering or science to be nominated by the Council; (vi) one professor and one assistant professor or a lecturer of the institute to be nominated by the Senate and (vii) The Director of the Indian Institute of Technology in whose zone the Institute is located, or his nominee, not below the rank of a Professor.

The students are given opportunity to administer their own affairs affecting the co-curricular residential and recreational activities through various committees, such as Institute Canteen Committee, Students' Aid and Welfare committee, Hostels and Mess committee etc.



# ADMINISTRATIVE HIERARCHY OF MNIT, JAIPUR





#### 2.5 ACADEMIC PROGRAMMES

#### **Courses offered**

At present the Institute offers four-year UG courses leading to the B. Tech. degree and five years of Bachelor of Architecture degree. The PG courses of two years duration provide advance learning of the specialized area and thus prepare human resources possessing advance knowledge in the field of Engineering and Technology/ Management/Sciences. The Institute also offers a full-time/part-time advance programme leading to the Ph.D. degree in the areas of Engineering/Technology/Management/ Sciences/Humanities & Social Sciences.

#### (a) Undergraduate Programmes (Technology/Architecture)

Academic Programmes leading to B. Tech./B. Architecture degree as noted below:

S. No.	<b>Discipline/Duration</b>	Year of starting
1.	Architecture (5 years)	1988
2.	Civil Engg. (4 years)	1963
3.	Chemical Engg. (4 years)	1988
4.	Computer Science & Engineering(4 years)	1994
5.	Electrical Engg. (4 years)	1963
6.	Electronics & Communication Engg. (4 years)	1984
7.	Mechanical Engg. (4 years)	1963
8.	Metallurgical & Materials Engg. (4 years)	1963

#### (b) Postgraduate Programmes (Technology/Science/Management)

Academic Programmes leading to M. Tech./M.Plan./M.B.A./M.Sc. Degree as noted below:

S. No.	Department	Programme	Year of starting	
1.	Centre for Energy & Environment	Renewable Energy	2013	
2.	Chemical Engineering	Chemical Engineering	2006	
3.	Civil Engineering	Environmental Engineering	1989	
4.	Civil Engineering	Water Resources Engineering	1985	
5.	Civil Engineering	CAD/Structural Engineering	1996/2006	
6.	Civil Engineering	Transportation Engineering	1996	
7.	Civil Engineering	Disaster Assessment and Mitigation	2010	
8.	Computer Science & Engineering	Computer Engineering	2008	
9.	Computer Science & Engineering	Computer Engineering & Information	2016	
		Security		
10.	Electrical Engineering	Power Systems	1987	
11.	Materials Research Centre	Material Science & Engineering	2016	
12.	Electrical Engineering	Power Electronics & Drives	2015	
13.	Electronic & Communication Engg	VLSI Design	2006	
14.	Electronic & Communication Engg	Wireless & Optical Communication	2014	
15.	Electronic & Communication Engg	Embedded System	2014	
16.	Electronics & Communication	Electronics & Communication	1992	
	Engineering	Engineering		
17.	Mechanical Engineering	Manufacturing System Engg./ Industrial	1996/2013	
		Engineering		



S. No.	Department	Programme	Year of starting	
18.	Mechanical Engineering	Energy/Thermal Engineering	2006/2013	
19.	Mechanical Engineering	ProductionEngineering	2013	
20.	Mechanical Engineering	Design Engineering	2013	
21.	Metallurgical & Materials Engg.	Non Ferrous Met./Metallurgical & Materials Engg	1971/2006	
22.	Metallurgical & Materials Engg.	Steel Technology	2013	
23.	Architecture & Planning	Urban Planning	2008	
24.	National Centre of Disaster Mitigation & Management	Earthquake Engineering	2015	
25.	Chemistry	M.Sc. Applied Chemistry	2006	
26.	Mathematics	M.Sc. Applied Mathematics	2006	
27.	Physics	M.Sc. Applied Physics	2006	
28.	Management Studies	MMS/M.B.A.	1996/2006	

#### 2.6 ADMISSION PROCEDURE

#### (a) Undergraduate Programmes

Admission are made through JEE (Main) conducted by the Central Seat Allocation Board i.e. CSAB and after online centralized counselling of JoSAA (Joint Seat Allocation Authority) on behalf of the Ministry of Human Resource Development, Govt. of India, New Delhi. The minimum academic qualification for admission through Joint Entrance Examination [JEE] (Main) is that the candidate must have passed in final examination of class 12<sup>th</sup> or equivalent qualifying examination. Foreign students are admitted through Direct Admission of Students Abroad (DASA), Indian Council for Cultural Relations (ICCR) and Ministry of External Affairs (MEA).

#### (b) Postgraduate Programmes

Admissions for M. Tech/M.Plan. are done (i) for full time through score in GATE conducted by IIT through Centralized Counselling for M.Tech./M.Arch./M.Plan. Admissions (CCMT) counselling and (ii) for sponsored candidates, whether full time or part time, through interview/test/GATE (depending on availability of seats)/Admissions to full time and part time (iii) M.S c. Admission are done through CCMN (Centralized Counseling for M.Sc./M.Sc. (Tech.) Admissions to NITs and CFTIs) (iv) Master of Business Administration (MBA) & Ph.D. Programmes are done through interview/tests conducted by individual Departments.

#### 2.7 STUDENTS INTAKE

#### (a) Undergraduate Programmes

The allocation of 710 seats for students from Rajasthan & other than Rajasthan states for the session 2016-17 are as follows:





Malaviya	Malaviya National Institute of Technology Jaipur										
	Degree	Branch	OP	OPPH	SC	SCPH	ST	STPH	OBC	OBCPH	Total
	B.Arch.	Architecture	15	1	5	0	2	0	8	0	31
	B.Tech.	Civil Engg.	23	0	7	0	3	1	12	0	46
	B.Tech.	Chemical Engg.	23	0	6	1	4	0	12	0	46
	B.Tech.	Computer	23	1	7	0	3	0	12	1	47
	D. ICCII.	Science & Engg.									
Other	B.Tech.	Electrical Engg.	22	1	7	0	4	0	13	0	47
than		Electronics &									
Rajasthan	B.Tech.	Communication	23	0	7	0	3	0	12	1	46
Rajastilali		Engg.									
	B.Tech.	Mechanical	22	1	6	1	4	0	12	0	46
	D. ICCII.	Engg.									
	B.Tech.	Metallurgical &	22	1	7	0	3	0	13	0	46
	B. Iech.	Materials Engg.									
		TOTAL (A)	173	5	52	2	26	1	94	2	355
	B.Arch.	Architecture	15	0	4	0	2	1	9	0	31
	B.Tech.	Civil Engg.	22	1	7	0	3	0	12	1	46
	B.Tech.	Chemical Engg.	22	1	7	0	3	0	13	0	46
	B.Tech.	Computer	22	1	7	0	4	0	12	0	46
		Science & Engg.									
	B.Tech.	Electrical Engg.	23	0	6	1	3	0	12	1	46
Rajasthan		Electronics &									
Rajastilali	B.Tech.	Communication	23	1	7	0	4	0	12	0	47
		Engg.									
	B.Tech.	Mechanical	23	0	7	0	3	0	13	1	47
	D. Iecii.	Engg.									
	B.Tech.	Metallurgical &	22	1	6	1	4	0	12	0	46
	D. ICUII.	Materials Engg.									
		TOTAL (B)	172	5	51	2	26	1	95	3	355
	GRAN	D TOTAL (A+B)	345	10	103	4	52	2	189	5	710

The allocation of 19 seats for students from Foreign Nationals through Indian Council for Cultural Relations (ICCR) & Ministry of External Affairs in UG programmes for the session 2016-17

Branch	MEA (Education)	MEA (Welfare)	ICCR	Total
Architecture (5 years)	1	-	1	2
Civil Engg. (4 years)	4	2	-	6
Chemical Engg. (4 years)	-	1	-	1
Computer Science & Engg. (4 years)	-	-	-	-
Electrical Engg. (4 years)	1	-	3	4
Electronics & Communication Engg. (4 years)	-	1	1	2
Information Technology (4 years)	-	-	-	-
Mechanical Engg. (4 years)	3	1	-	4
Metallurgical & Materials Engg. (4 years)	-	-	-	-
TOTAL	9	5	5	19



Branch/Duration	Approved Annual Intake
Architecture (5 years)	04
Civil Engg. (4 years)	07
Chemical Engg. (4 years)	03
Computer Science and Engg. (4 years)	10
Electrical Engg. (4 years)	07
Electronics & Communication Engg. (4 years)	11
Mechanical Engg. (4 years)	10
Metallurgical & Materials Engg. (4 years)	03
TOTAL	55

The allocation of 55 seats for students from DASA Scheme in UG programmes in 2016-17

# (b) Postgraduate Programmes

Statement showing the intake capacity (branch wise) for admission to Postgraduate programmes for the year 2016-17.

S.	Due que unu e	OC	OB	SC	ST	OC-	OB-	SC-	ST-	Successed	РТ	Total
No.	Programme	UC	OB	sc	51	PWD	PWD	PWD	PWD	Sponsored	ΥI	10181
1.	Urban Planning	10	5	3	2	0	0	0	0	5	6	31
2.	Renewable Energy	10	5	3	2	0	1	0	0	5	6	32
3.	Chemical Engg.	10	5	3	2	0	0	1	0	5	6	32
4.	Disaster Assessment and Mitigation	8	3	2	1	1	0	0	0	5	6	26
5.	Earthquake Engg.	8	4	2	1	0	0	0	0	0	0	15
6.	Environmental Engg.	8	3	2	1	1	0	0	0	5	6	26
7.	Structural Engg.	8	3	2	1	0	1	0	0	5	6	26
8.	Transportation Engg.	8	3	2	1	0	0	0	1	5	6	26
9.	Water Resources Engg.	8	3	2	1	0	0	0	0	5	6	25
10.	Computer Engg.	10	5	3	2	1	0	0	0	5	6	32
11.	Power Electronics & Drives	10	5	3	2	0	0	0	0	0	0	20
12.	Computer Engineering & Information Security	10	5	3	2	1	0	0	0	0	0	21
13.	Power Systems	10	5	3	2	0	0	0	0	5	6	31
	Electronics &											
14.	Communication	10	5	3	2	0	0	1	0	5	6	32
	Engg.											
15.	Embedded Systems	10	5	3	2	0	0	0	0	0	0	20





S. No.	Programme	OC	OB	SC	ST	OC- PWD	OB- PWD	SC- PWD	ST- PWD	Sponso	ored PT	Total
16.	VLSI Design	10	5	3	2	1	0	0	0	5	6	32
17.	Wireless & Optical Communication	10	5	3	2	0	0	0	0	0	0	20
18.	Design Engg.	8	3	2	1	1	0	0	0	0	0	15
19.	Industrial Engg.	10	5	3	2	0	1	0	0	5	6	32
20.	Production Engg.	8	3	2	1	0	0	0	0	0	0	14
21.	Thermal Engg.	8	4	2	1	0	0	0	0	0	0	15
22.	Metallurgical & Materials Engg.	10	5	3	2	0	0	0	0	5	6	31
23.	Steel Technology	8	3	2	1	0	0	0	0	5	6	25
24.	Materials Science & Engineering	10	5	3	2	0	0	0	0	0	0	20
	Total	220	102	62	38	6	3	2	1	75	90	599
							•	•	•			
S. No.	Programm	ne		00	OB	SC	ST	OC- PWD	OB- PWD	SC- PWD	ST-PWD	Total
1.	M.Sc. in Phy	ysics		16	8	5	2	1	0	0	0	32
2	M Calin Char	an i a tura a		16	0	5	2	0	0	1	0	22

No.	· · · · · · · · · · · · · · · · · ·	00	02	~~~	~ 1	PWD	PWD	PWD	811 H B	1000
1.	M.Sc. in Physics	16	8	5	2	1	0	0	0	32
2.	M.Sc. in Chemistry	16	8	5	2	0	0	1	0	32
3.	M.Sc. in Mathematics		8	5	2	0	0	0	1	32
	Total		24	15	6	1	0	1	1	96

S. No.	Programme	OC	OB	SC	ST	OC- PWD	OB- PWD	SC- PWD	ST-PWD	Total
1.	MBA	31	17	09	05	0	0	0	0	62
	Total	31	17	9	5	0	0	0	0	62

#As per institute policy 3% of the total seats (2 nos.) are reserved for PH category in the programme over and above the sanctioned strength.

# Intake of Foreign Nationals under the DASA Scheme in PG programmes in 2016-17

S. No.	Programmes	Intake
1.	M. Planning in Urban Planning	2
2.	Chemical Engineering	2
3.	Computer Science & Engineering	2
4.	Electronics & Comm. Engg.	2
5.	Industrial Engg.	2
6.	Metallurgical & Materials Engg.	2
7.	Power Systems	2
8.	Structural Engg.	2
9.	Thermal Engineering	2
10.	Transportation Engg.	2
11.	VLSI Design	2
12.	M.B.A.	5
	TOTAL	27





#### **RESERVATION IN B.TECH/M. TECH./M.Sc./MBA PROGRAMMES**

- (i) OBC
- (ii) Scheduled Castes
- (iii) Scheduled Tribes
- 27% in every course 15% in every course
- ribes 7.5% in every course
- (iv) Physically Handicapped
- 3% in every course over & above the sanctioned strength

#### Duration of B. Tech./B.Arch. Programmes

Academic Programme	Normal duration	Maximum duration
B. Tech.	8 Semesters	14 Semesters
B.Arch.	10 Semesters	16 Semesters

#### **Duration of M. Tech./M.Plan. Programmes**

Normal duration	Maximum duration
Full Time: 4 Semesters	6 Semesters
Part Time: 6 Semesters	10 Semesters

#### **Duration of M. Sc./MBA Programme**

Normal duration	Maximum duration
Full Time: 4 Semesters	6 Semesters

#### 2.8 EXAMINATION AND EVALUATION

#### **Credits System**

Education at the Institute is organized around the credit system of study. The prominent features of the credit system is process of continuous evaluation of a student's performance, and a flexibility to allow a student to progress at an optimum pace suited to his/her ability or convenience subject to fulfilling minimum requirement for continuation.

Each course has a certain number of credits, which describe its weightage. A student's performance is measured by the number of credits that he/she has completed satisfactorily. A minimum Grade Point Average is required to be maintained for satisfactory process. Also a minimum number of earned credits should be obtained in order to qualify for the degree.

Every course is co-ordinated by a member of the teaching staff of the department, which offers the course in a given semester. This faculty member is called the Course Co-ordinator. He has full responsibility for conducting the course, co-ordinating the work of the other members of the faculty involved in that course and for holding tests and assignments and awarding grades. For any difficulty a student is expected to approach the Course Co-ordinator for advice and clarification.

#### **Grading System**

The grades are being awarded as per the table below:

#### Structure of grading of academic performance



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Academic Performance	Grades	Grade Points
Outstanding	AA	10
Excellent	AB	9
Very Good	BB	8
Good	BC	7
Average	CC	6
Below Average	CD	5
Marginal	DD	4
Failed due to Poor Performance	FP	-
Failed due to Attendance Shortage	FA	-
Waiver	WR	-
Incomplete	Ι	-
Withdrawal	W	-

The following abbreviations are also used against a subject, wherever required:

[REP]: for repeating a paper in which grade F/FP/FA was obtained earlier

[SUB]: for substituting an elective course by other elective course

[IMP]: for improving grade in a course

[GNI]: grade not included in calculation of CGPA & SGPA

#### 2.9 PLACEMENT

The Placement Cell has been active in arranging training and placement for students. This year a total of 120 companies visited the campus and selected 489 (415 B.Tech and 74 PG Courses) students. Highest and average packages offered by companies were Rs. 29.00 LPA to 3 B. Tech students of Computer Science & Engineering by DE Shaw & 12 students was given Pre Placement Offers (PPOs), and the average package of placed students (B.Tech) was 6.95 LPA.

# 2.10 GAMES AND SPORTS

#### Participation of students in tournaments and results:

- 1. All India Inter NIT Athletic (Boys & Girls) & Gym Competition 2016-17, held at NIT Kurukshetra (Haryana): overall championship in power lifting, weight lifting, best men in body building and won 02 gold, 02 silver and 01bronze in athletics.
- 2. All India Inter NIT Table Tennis & Chess (Boys & Girls) Tournament 2016-17, held at NIT Srinagar (J&K): Won gold medal in chess girls and won silver in chess boys.
- 3. All India Inter NIT Basketball & Kabaddi (Boys & Girls) Tournament 2016-17, held at MNIT Jaipur (Rajasthan): Won gold medal in Kabaddi (Girls).
- 4. All India Inter NIT Football Tournaments 2016-17 held at NIT Tripura: Satisfactory performance.
- 5. Participated in Spree 2017 Invitational National Tournament 2016-17, held at BITS Pilani campus Goa, won silver medal in Badminton (Girls).



- 6. Participated in MST 2017 Invitational National Tournament 2016-17, held at MNIT Jaipur, won overall championship.
- 7. Spardha'16 Tournament was held at IIT BHU, Varanasi from 21st-23rd October 2016 in which more than 30 institutes/universities participated including our institute. Our contingent comprised of 46 students and the teams, which participated, are: Table Tennis (Men and Women), Chess (Men and Women), Badminton (Men and Women), Gym and Cricket.

#### The results are as follows:

- 8. Chess (Girls) secured **Silver Medal** out of 7 teams
- 9. Chess (Boys) secured  $4^{th}$  **position** out of 15 teams
- 10. Badminton (Girls) secured **Bronze Medal** out of 11 teams
- 11. Gymnasium team secured Silver Medal (overall) and 2 bronze medals (individually)
- 12. Cricket team lost in the **quarter finals**
- 13. Table tennis (Boys) lost in **pre-quarter finals**

#### Activities organized by Institute during the session 2016-2017:

- 1. All India Inter NIT Basketball & Kabaddi (Men & Girls) Competition 2016-17.
- 2. Inter Branch Tournaments 2016-17 (Badminton, Basket ball, Cricket, Chess, Football, Volleyball, Gym, Tennis, and Table Tennis etc.)
- 3. Annual Athletic Meet 2016-17.
- 4. MNIT Sports Tournament (National Level) 2017.
- 5. Hong Kong Sixes Cricket Tournament 2017.
- 6. Intra Institute level Badminton Tournament 2017.
- 7. Mixed Volleyball, Badminton and Basketball Tournaments 2017.

# 2.11 STAFF POSITION

#### **Staff Position**

The staff position is as follows

Sanctioned Faculty strength	473
Faculty in Position (Including Director)	195
Administrative Staff in position	17
Ministerial Staff in position	64
Technical staff in position	129
Supporting Staff	65
Contractual Staff	34





#### **Faculty** awards

Faculty members of the Institute won several awards and many prestigious organizations have recognized the contributions of the faculty and honoured them. The details are given in Chapter 11.8

#### **Research & Development**

Research and Development at MNIT Jaipur is one of the focal points to achieve its vision of developing cutting edge technology to meet the current and future challenges of technological development. The rich experience and talents of the faculty, combined with their passion and dedication for research, development and consultancy in their respective areas has created excellent results. The focus on research is not limited to the faculty members in their laboratories of the Institute but is pervasive beyond it in classrooms and fields as reflected in its relevance and rigor in all academic programmes of the Institute.

The Research and Development activities are supervised by the Research and Consultancy Cell at MNIT headed by Dean – Research and Consultancy. The cell is established with the objective of fostering in the Institute an enabling environment conducive for promoting and encouraging research, consultancy and other extension and professional activities among faculty and students. The Office of Dean – Research and Consultancy (ODRC) monitors all externally and internally funded and sponsored research, professional consultancy and development activities.

#### THRUSTAREAS

The major thrust areas of Research, Development and Consultancy at MNIT Jaipur include:

- Nano-Technology and Material Science
- Disaster Management
- Energy Conservation
- Industrial pollution
- Composite material
- Internet Security
- Productivity
- Water De-Flouridation
- Power Control Systems
- Smart Grid
- Photonic structures
- Polymer membrane
- Nitronic steel
- Bio-fuels
- Green buildings

#### **RESEARCH CONSULTANCY AND DEVELOPMENT HIGHLIGHTS (LAST 5 YEARS 2011-16)**

- On-going projects worth Rs. 47.01 crores
- High value projects worth Rs. 17.53 crores
- Industrial consultancy Rs. 18.50 crores

Forty four (44) number of new research projects in the year 2016-17 have been sanctioned, amounting to a sum of Rs. 13.36 crores.



# CONSULTANCYACTIVITIES

The Institute encourages its faculty to undertake professional consultancy assignments in their areas of expertise. Such professional assignments have steadily increased over last few years, both in terms of numbers as well as value.

Exhibit 1. Number of professional consultancy assignments during last five years

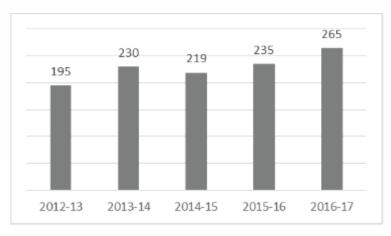
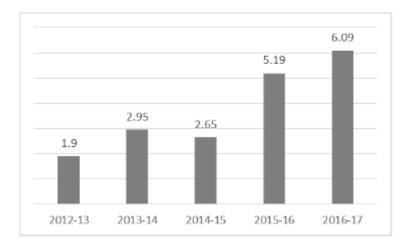


Exhibit 2. Value (Rs. in crores) of professional consultancy assignments during last five years





# 3.0 THE STAFF

# 3.1 Academic staff (Teaching - As on 31.03.2017)

Designation	Name	Qualification	
Director	Prof. Udaykumar R. Yaragatti	Ph.D.	

# **DEPARTMENT OF ARCHITECTURE**

Designation	Name		Qualification
Professor	1	Shri Alok Ranjan	B.Arch., M.U.R.P.(Hons.)
1 10103501	2	Shri Rajeev Shringi	B.Arch., M. Plng. (Urban Planning)
	1	Ms. Rina Surana	B.Arch., M. Arch. (Urban Design)
	2	Shri R.N. Sharma	B.Arch., M.U.P., M. Plan
Associate Professor	3	Mrs. Kalpana Pandit	B.Arch., M.U.P., M. Plan
	4	Shri Tarush Chandra	B. Arch., P.G. Dip. Plng. (Urban & Regional Plan)
	5	Mrs. Meenu Varshney	B.Arch.
Assistant Professor	1	Dr. Satish Pipralia	B.Arch., MURP, Ph. D.
	2	Dr. Nand Kumar	B.Arch., M. Arch., Ph.D
	3	Shri Nischal Jain	B. Arch., M.Des.
	4	Dr. Pooja Nigam	B.Arch., M. Plan., Ph.D
	5	Ms. Niruti Gupta	B.Arch., M. Plan
	6	Dr. Ashwani Kumar	B.Arch., M. Plan, Ph. D.





# **DEPARTMENT OF CHEMICAL ENGINEERING**

Designation		Name	Qualification
Professor	1	Dr S.P. Chaurasia	B.Tech., M.Tech., Ph.D.
	2	Dr. Alok Gupta	B.Tech., M.Tech., Ph.D.
Associate Professor	1	Dr. R.K. Vyas	B.E., M.E., Ph.D.
	2	Dr. Prabhat Pandit	B.Tech., M.Tech., Ph.D.
	3	Dr. S.K. Jana	B.Tech., M.Tech., Ph.D.
	4	Dr.(Mrs.) Suja George	B. Tech., M. Tech. Ph.D.
	5	Dr. Kailash Singh	B. E., M.Tech. Ph.D.
Assistant Professor	1	Dr. Manish Vashistha	B. E., M.Tech. Ph.D.
	2	Dr. (Mrs.) Madhu Agarwal	B. Tech., M. Tech. Ph.D.
	3	Dr. Sushant Upadhyay	B. Tech., M. Tech., Ph.D.
	4	Dr. Rajeev Kumar Dohre	B. Tech., M. Tech., Ph.D.
	5	Shri Shiv Om Meena	M.Tech.
	6	Dr. U.K.Arun Kumar	B. E., M.E., Ph.D.
	7	Dr. Virendra Kumar Saharan	B. E., M.Tech. Ph.D.
	8	Dr. Subbaramaiah V.	B.Tech., M.Tech., Ph.D
	9	Dr. Dipaloy Datta	B.E., M.E., Ph.D

# DEPARTMENT OF CIVIL ENGINEERING

Designation		Name	Qualification
Professor	1	Dr. A.B. Gupta	B.E., M.Tech., Ph.D.
	2	Dr. Y.P. Mathur	B.E., M.E., Ph.D.
	3	Dr. B.L. Swami	A.M.I.E., M.E., Ph.D.
	4	Dr. Rohit Goyal	B.E., M.E., Ph.D.
	5	Dr. Gunwant Sharma	B.E., M.Tech., Ph.D.
	6	Dr. A.K. Vyas	B.E., M.E, Ph.D.
	7	Dr. Sudhir Kumar	B.E., M.E., Ph.D.
	8	Dr. Ravindra Nagar	B.E., M.Tech., Ph.D.
	9	Dr. R.C. Gupta	B.E., M.E., Ph.D.
	10	Dr. M.K. Shrimali	B.E., M. Tech., Ph.D.



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Associate Professor	1.	Dr. J.K. Jain	B.E., M.E. Ph. D.
	2	Dr. (Mrs.) Urmila Brighu	B.E., M.Tech, Ph.D.
	3	Dr. Sanjay Mathur	B.E., M.E., Ph.D.
-	4	Dr. Sandeep Choudhary	B.E., M.E. Ph.D.
	5	Dr. S.K. Tiwari	B.E., M.Tech., Ph. D.
-	6	Dr. S.D. Bharti	B.E., M.Tech. Ph.D.
-	7	Dr. Rajesh Gupta	B.E., M.E., Ph.D.
-	8	Dr. Mahesh Kumar Jat	B.E., M.E, Ph.D.
-	9	Dr. Mahendra Choudhary	B.E., M. E., Ph.D.
	10	Dr. Ajay Singh Jethoo	B.E., M.E., Ph.D.
		(On deputation at Govt. Women	
		Engineering college, Ajmer)	
Assistant Professor	1	Dr. (Mrs.) Nivedita Koul	B.E., M. E. Ph.D.
-	2	Dr. Pawan Kalla	B.E., M. E. Ph.D.
	3	Dr. Arun Gaur	B.E., M. E., Ph.D.
	4	Dr. Sumit Khandelwal	B.E., M.E. Ph.D.
	5	Dr. Vinay Agarwal	B.E., M.E. Ph.D.
	6	Dr. Pandit Venkata Ramana	M. Tech., Ph.D.
	7	Dr. Sandeep Shrivastava	M. Tech., Ph.D.
	8	Dr. Rosalin Sahoo	M. Tech., Ph.D.





# **DEPARTMENT OF COMPUTER ENGINEERING**

Designation		Name	Qualification
Professor	1	Dr. M.C. Govil	B.E., M.E., Ph.D.
	2	Dr. M.S. Gaur	B.E., M.E., Ph.D.
Associate Professor	1	Dr. Girdhari Singh	B.E., M.S. (Software) ,Ph.D.
	2	Dr.(Mrs) Vijay Laxmi	B.E., M.Tech., Ph.D.
Assistant Professor	1	Dr. (Mrs.) Neeta Nain	M.C.A. Ph.D.
	2	Dr. (Mrs.) Namita Mittal	M.C.A. Ph.D.
	3	Dr. Dinesh Goplani	B.E. M.Tech. Ph.D.
	4	Dr. Mushtaq Ahmed	B.E, Ph.D.
	5	Dr. (Mrs.) Meenkshi Tripathi	M.Tech, Ph.D.
	6	Dr. Yogesh Kumar Meena	M.Tech, Ph.D
	7	Dr. Ramesh Babu Battula	M.Tech., Ph.D
	8	Dr. A.K.Mazumdar	B.E., M.Tech., Ph.D
	9	Shri Dinesh Kumar Tyagi	B.E., M.Tech.
	10	Dr. Emmanuel Shubhankar Pilli	B.E., M.Tech., Ph. D.
	11	Dr. Santosh Kumar Vipparthi	B.E., M.Tech., Ph.D

# DEPARTMENT OF ELECTRICAL ENGINEERING

Designation	Name		Qualification
Professor	1	Dr R. A. Gupta	B.E., M.E., Ph.D.
	2	Dr. K.R. Niazi	B.E.,M.E., Ph.D.
	3	Dr. Manoj Fozdar	B.Sc.(Engg.), M.Sc. (Engg.), Ph.D.
Associate Professor	1	Shri A.K. Agarwal	B.E., M.Tech.
	2	Mrs. Nikita Jhajharia	B.E., M.E.
	3	Shri V.K. Jain	B.E., M.E.
	4	Dr. Vikas Gupta	B.E., M.E., Ph.D.
	5	Shri V.S. Pareek	B.E., M.E.
	6	Shri P.K. Agarwal	B.E., M.E.
	7	Dr. Harpal Tiwari	B.E., M.E., Ph.D.
	8	Dr. Rajesh Kumar	B.E., M.E. Ph.D.
	9	Dr. Rajive Tiwari	B.E., M. E. Ph.D

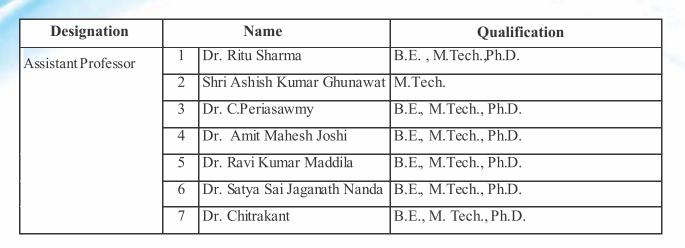




Designation		Name	Qualification
Assistant Professor	1	Shri Mukesh Kumar Shah	B.E., M.Tech
	2	Dr. Nikhil Gupta	B.E., M.Tech. Ph.D.
	3	Dr. Anil Swarnkar	B.E., M.Tech. Ph.D.
	4	Dr. (Mrs.) Prerna Jain	B.E., M.E., Ph.D.
	5	Dr. Rohit Bhakar	B.E. M.E., Ph.D
	6	Dr. (Mrs.) Kusum Verma	B.E., M.Tech., Ph.D
	7	Dr. Nitin Gupta	B.E., M.Tech., Ph.D
	8	Shri Hemant Meena	B. Tech., M. Tech.
	9	Dr. Dipti Saxena	B. Tech., M. Tech., Ph.D
	10	Dr. Vijay Kumar K	B.E., M.Tech., Ph.D
	11	Dr. Neeli Satyanarayana	B.Tech., M.E., Ph.D
	12	Dr. Arun Kumar Verma	B.E., M. Tech., Ph.D

# **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

Designation		Name	Qualification
Professor	1	Dr. R.P. Yadav	M.Sc., M.Tech., Ph.D.
	2	Dr. Vineet Sahula	B.E., M.Tech., Ph.D.
	3	Dr. K.K. Sharma	B.E., M.E. Ph.D.
	4	Dr. D. Boolchandani	B.E., M.Tech. Ph.D
Associate Professor	1	Shri Sanjeev Agarwal	B.E., M.Tech.
	2	Dr. Mohd. Salim	B.E., M.Tech., Ph.D.
	3	Shri Rakesh Bairathi	B.E., M.Tech.
	4	Shri Tarun Varma	B.E., M.E.
	5	Dr. Lava Bhargava	B.E., M.E. Ph.D
	6	Dr. Vijay Janyani	B.E., M.E., Ph.D.
	7	Dr. Ghanshyam Singh	B.E. ,M.Tech., Ph.D.
	8	Dr. M.M. Sharma	B.E., M.Tech., Ph.D.
		(on lien as Executive Director	
		at NIELIT, Chandigarh)	



#### DEPARTMENT OF MECHANICAL ENGINEERING

Designation		Name	Qualification
Professor	1	Dr. Gopal Agarwal	B.E., M.E., Ph.D.
	2	Dr. S.L. Soni	B.E., M.Tech., Ph.D.
	3	Dr. A.P.S. Rathore	B.E., M.B.A., Ph.D.
	4	Dr Rakesh Jain	BE., P.G.D.I.E. Ph.D.
	5	Dr. G. S. Dangayach	B.E., M.Tech., Ph.D.
	6	Dr. Jyotirmay Mathur	B.E., M. Tech., Ph.D.
	7	Dr. A.K. Bhardwaj	B.E., M.E., Ph.D.
	8	Dr. Dilip Sharma	B.E., M.E., Ph.D.
	9	Dr. M.P. Poonia	B.E., M.E., Ph.D.
		(on deputation at AICTE, New	
		Delhi)	
Associate Professor	1	Dr G.D. Agarwal	B.E., M.Tech. Ph.D.
	2	Dr M.L. Mittal	B.E., M.E. Ph.D.
	3	Shri N.S.Yadav	B.E.
	4	Shri Amit Panchariya	B.E., M.Tech.
	5	Dr.T.C. Gupta	A.M.I.E., M.Tech, Ph.D
	6	Dr. Nirupam Rohtagi	B.E., M.E., Ph.D.
	7	Dr. Himanshu Choudhary	M. Tech., Ph.D.





Designation		Name	Qualification
Assistant Professor	1	Dr. Makhan Lal Meena	M.Tech., Ph.D.
	2	Dr. Mukesh Kumar	B.Tech., M. Tech., Ph.D
	3	Ms. Anoj Meena	B.E., M.Tech.
	4	Dr. Gunjan Soni	B.E., M.Tech. Ph.D.
	5	Dr. Harlal Singh Mali	B.E., M.Tech. Ph.D.
	6	Dr. Amit Singh	B.Tech., M.Tech. Ph.D.
	7	Dr. Dinesh Kumar	M.Tech. Ph.D.
	8	Dr. Amar Patnaik	B.E., M.Tech. Ph.D.
	9	Dr. MM Jagadeesh Kumar	B.E., M.Tech., Ph.D.

# DEPARTMENT OF METALLURGICAL ENGINEERING

Designation	Name		Qualification
Professor	1	Dr. Ashok Sharma	B.Sc., B.E., M.E., Ph.D.
	2	Dr. P.R. Soni	M.Sc., M.E., Ph.D.
	3	Dr. A.K. Bhargava	B.E., M.E., Ph.D.
	4	Dr. Upendra Pandel	B.E., M.E., Ph.D.
Associate Professor	1	Dr. N. C. Upadhyay	B.Tech., M.E., Ph.D.
	2	Dr. Y.V.S.S. Prasad	B.E., M.Tech., Ph.D.
	3	Dr. V.K. Sharma	B.E., M.E., Ph.D.
	4	Dr. S.K. Gupta	B.E., M.E., Ph.D.
Assistant Professor	1	Dr. Rajendra Kumar Duchaniya	M.Tech., Ph.D.
	2	Dr. Ajaya Kumar Pradhan	B.E., M.Tech., Ph.D.
	3	Dr. Vijay Navaratna Nadakuduru	B.E., M.Tech., Ph.D.
	4	Shri Krishna Kumar	B.Tech., M.E.





#### **DEPARTMENT OF CHEMISTRY**

Designation		Name	Qualification
Associate Professor	1	Dr. (Mrs.) Jyoti Joshi	M.Sc., Ph.D.
	2	Dr. (Ms.) Ragini Gupta	M.Sc., Ph.D.
Assistant Professor	1	Dr. Mukesh Jain	M.Sc., Ph.D.
	2	Dr. Raj Kumar Joshi	B.Sc., M.Sc., Ph.D.
	3	Dr. Sandeep Choudhary	B.Sc., M.Sc., Ph.D.
	4	Dr. Sumanta Kumar Meher	M. Phil, Ph.D
	5	Dr. Sumit Kumar Sonkar	M.Sc., Ph.D
	6	Dr. Pradeep Kumar	B.Sc., M.Sc., Ph.D.
	7	Dr. Biman Bandhopadhyay	B.Sc. (Hons.), M.Sc., Ph.D.
	8	Dr. Sudhir Kashyap	B.Sc., M.Sc., Ph.D
	9	Dr. Abbas Raja Naziruddin	B.Sc., M.Sc., Ph.D

#### DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

Designation	Name		Qualfication
Associate Professor	1	Dr. V.S. Shekhawat	M.A., M.Phil., Ph.D.
	2	Dr.(Mrs.) Nupur Tandon	M.A., Ph.D.
	3	Mrs. Nanny Tripathi	M.A., M.Phil.
Assistant Professor	1	Dr. (Mrs.) Dipti Sharma	M.A., Ph.D.
	2	Dr. (Mrs.) Preeti Bhatt	M.A., Ph.D.

#### **DEPARTMENT OF MATHEMATICS**

Designation		Name	Qualification	
Professor	1	Dr. (Mrs.) Rashmi Jain	M.Sc., Ph.D.	
Associate Professor	2	Dr. (Mrs.) Vatsala Mathur	M.Sc., Ph.D.	
	3	Dr. R.C. Soni	M.Sc., M.Phil, Ph.D.	
Assistant Professor	ssistant Professor 1 Dr. Sanjay Bhatter		M.Sc., Ph.D.	
	2	Dr. (Mrs.) Santosh Choudhary	M.Sc., M.Phil,Ph.D.	
	3	Dr. (Mrs.) Ritu Agarwal	B.Sc., M.Sc., M.Phil., Ph.D.	
	4	Dr. Varun Jindal	B.Sc., M.Sc., Ph.D.	





#### **DEPARTMENT OF PHYSICS**

Designation		Name	Qualification
Professor	1	Dr. S.K. Sharma	M.Sc., Ph.D.
Associate Professor	1	Dr. (Mrs.) K. Sachdev	M.Sc., Ph.D.
Assistant Professor	1	Dr. K. Venkatratanam Kamma	B.Sc., M.Sc., Ph.D.
	2	Dr. Srinivasa Rao Nelamarri	B.Sc., M.Sc., Ph.D.
	3	Dr. Rahul Singhal	B.Sc., M.Sc., Ph.D.
	4	Dr. Subhayan Mandal	B.Sc., M.Sc., Ph.D.
	5	Dr. Kamlendra Awasthi	B.Sc., M.Sc., M.Phil., Ph.D.
	6	Dr. Ashok Kumar	B.Sc., M.Sc., Ph.D.
	7	Dr. Kavita Lalwani	B.Sc., M.Sc., M.Phil., Ph.D.
	8	Dr. Manoj Kumar	B.Sc., M. Sc., M. Phil., Ph.D
	9	Dr. Akhilesh Nautiyal	B.Sc., M.Sc., Ph.D

#### DEPARTMENT OF MANAGEMENT STUDIES

Designation	Name		Qualification
Professor			
Associate Professor			
Assistant Professor	1	Dr. Monika Sharma	BE, MBA, Ph.D.
	2	Dr. Satish Kumar	B.Com., MBA, Ph.D.
	3	Dr. Deepak Verma	MBA, Ph.D.
	4	Dr. Divesh Kumar	B.Sc., MBA, Ph.D
	5	Dr. Reeta Singh	B.Sc., MBA, Ph.D

#### **CENTRE FOR ENERGY & ENVIRONMENT**

Designation	Name		Qualification
Professor			
Associate Professor			
Assistant Professor	1	Dr. Vivekanand	B.Sc., M.Sc, Ph.D.
	2	Dr. Amartya Chowdhary	B.Sc., M.Sc, Ph.D.
	3	Dr. Kapil Pareek	B.Sc., M.Sc, M.Tech., Ph.D.





### **PROFESSOR OF TRAINING AND PLACEMENT**

Designation	Name	Qualification
Professor	Dr. S.L.Soni	B.E., M.Tech., Ph.D.

#### **STEEL CHAIR PROFESSOR**

Designation	Name	Qualification
Steel Chair Profesor	Prof. M.K.Banerjee	Ph.D.

#### **RESEARCH PROFESSOR**

Designation	Name	Qualification
Research Professor	Prof. Sampad Biswas	Ph.D.

#### **ICT CHAIRPERSON**

Designation	Name	Qualification
ICT Academy	Prof. Vishwanath Sinha	Ph.D.
Chairperson		

#### 3.2 Non-Academic Staff (Non-Teaching as on 31.03.2017)

#### **ADMINISTRATIVE & OTHER STAFF**

#### (a) Chief Academic & Executive Officer

S.No.	Designation	Name	Qualification
1	Director	Prof. Udaykumar R. Yaragatti	Ph.D.



## (b) Administrative Staff

S.No.	Designation	Name	Qualification
1.	Registrar	Dr. Ashok Kumar Solanki	Ph.D
2	Dy. Registrar	Dr. Reetu Singh	Ph. D.
		Mr. Jai Narain	M.Tech
		Mr. Raj Kumar Manjhiwhal	M.Com
3	Assistant Registrar	1 Shri Bhurendra Singh	B.A., L.L.B.
		2 Dr. (Mrs.) Suman Rathore	M.A., Ph.D.
		3 Shri Jayant Sharma	M.Com.
		4 Shri Birbal Singh	M.Com., L.L.B.
		5 Shri Rajkumar Dubey	M.Com, L.L.B.
		6 Shri Deepak Maheshwari	M.Com.
4	Executive Engineer	Shri Jitendra Dixit (On deputation)	-
5	Assistant Executive	Shri C.M.Saini	AMIE
	Engineer		
6	Librarian	-	-
7	Deputy Librarian	-	-
8	Assistant Librarian	Shri Deep Singh	M.A., (Pub. Adm.) &
			M.L.I.Sc.
9	Senior Medical Officer	Dr. Vandana Gupta (On deputation)	M.B.B.S.
10	Medical Officer	Dr. Virendra Singh Shekhawat (On	M.B.B.S.
		deputation)	
11	Senior SAS Officer	-	-
12	Student Activity and	Dr. Subir Debnath	Ph.D.
	Sports Officer	Dr. Virendra Singh	Ph.D.
13	Principal Scientific	-	-
	/Technical Officer		
14	Senior Scientific		
	/Technical Officer		



15	Scientific /Technical	Dr. Sanjay Rajpal	M.C.A., Ph.D.
	Officer	Mr. Mohtashim Reza	B.Tech
		Mr. Chetanya Prakash	M.S.C
16	Security Officer	-	-

#### 3.3 STATEMENT SHOWING THE STAFF POSITION

#### a) Academic Staff

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2017)
1	Director	1	1
2	Professor	68	38
3	Associate Professor/Reader	135	58
4	Assistant Professor	270	98

## b) Non – Teaching Staff

S. No.	Name of Cadre	Total sanctioned	In position
		posts	(On 31.3.2017)
А.	Officers (10 percent of faculty strength)	47	17
1.	Registrar	1	1
2.	Deputy Registrar	5	3
3.	Assistant Registrar	16	6
4.	Executive Engineer	1	
5.	Assistant Executive Engineer	3	1
6.	Librarian	1	
7.	Deputy Librarian	1	
8.	Assistant Librarian	3	1
9.	Senior Medical Officer	1	
10.	Medical Officer	2	
11.	Senio r Student Activity and Sports (SAS) Officer	1	
12.	Student Activity and Sports (SAS) Officer	2	2
13.	Principal Scientific/ Technical Officer	1	
14.	Senior Scientific/ Technical Officer	2	
15.	Scientific/ Technical Officer	5	3
16.	Security Officer	2	0





S. No.	Name of Cadre	Total sanctioned	In position
		posts	(On 31.3.2017)
B.	Technical Higher (30 percent of faculty	141	50
	strength)		
1.	PB-2 with grade pay of Rs 4200/ -	57	41
2.	PB -2 with grade pay of Rs 4600/ -	42	06
3.	PB -2 with grade pay of Rs 4800/ -	28	03
4.	PB -2 with grade pay of Rs 5400/ -	14	00
C.	Technical Lower (30 percent of faculty	142	79
	strength)		
1.	PB-1 with grade pay of Rs 2000/ -	57	58
2.	PB-1 with grade pay of Rs 2400/ -	43	03
3.	PB-1 with grade pay of Rs 2800/ -	28	07
4.	PB-2 with grade pay of Rs 4200/ -	14	11
D.	Ministerial Higher (08 percent of faculty	38	11
	strength)		
1.	PB-2 with grade pay of Rs 4200/ -	17	09
2.	PB -2 with grade pay of Rs 4600/ -	11	00
3.	PB -2 with grade pay of Rs 4800/ -	06	02
4.	PB -2 with grade pay of Rs 5400/ -	04	00
Е.	Ministerial Lower (17 percent of faculty	81	53
	strength)		
1.	PB -1 with grade pay of Rs 2000/ -	33	21
2.	PB -1 with grade pay of Rs 2400/ -	24	09
3.	PB -1 with grade pay of Rs 2800/ -	16	00
4.	PB -2 with grade pay of Rs 4200/ -	08	23
F.	Supporting Staff (15 percent of faculty	71	65
	strength)		
1.	PB -1 with grade pay of Rs 1800/ -	29	09
2.	PB-1 with grade pay of Rs 1900/ -	21	12
3.	PB -1 with grade pay of Rs 2000/ -	14	13
4.	PB-1 with grade pay of Rs 2400/ -	07	31
	GRAND TOTAL (110 percent of faculty		
	strength)		



#### 3.4 WORKING HOURS

The Institute during the year under report observed the following working hours:

1	Academic Departments	8.00 a.m. to 5.00 p.m. Monday to Friday
2	For employees working in	-do -
	the Administrative Block	
3	Hostels	Round the clock (shift-wise)
4	Estate Department	8.00 a.m. to 5.00 p.m. on all the days of the week and on
		Sunday, a few members of the staff are called on duty to
		attend emergency services.
5	Library	Shift wise

### 4. TEACHING PROGRAMME

#### 4.1 COURSES OFFERED

The Institute offers courses of study leading to Bachelor of Technology Degree in Civil, Mechanical, Electrical, Electronics & Communication, Metallurgical & Materials, Chemical, Computer Science & Engineering and B. Architecture in Architecture & Planning Dept. Full Time/Part Time Master of Technology Degrees in Water Resources Engineering (Civil Engg. Dept.), Environmental Engineering (Civil Engg. Dept.), Structural Engg. (Civil Engg. Dept.), Transportation Engg. (Civil Engg. Dept.), Disaster Assessment and Mitigation (Civil Engg. Dept.), Earthquake Engg. (Civil Engg. Dept.), Chemical Engg. (Chemical Engg. Dept.), Computer Engg. (Computer Science and Engg. Dept.), Computer Engineering & Information Security (Computer Science and Engg. Dept.), Renewable Energy (Centre for Energy & Environmental Dept.), Power Systems (Electrical Engg. Dept.), Power Electronics & Drives (Electrical Engg. Dept.), Electronics & Communication Engg., VLSI Design (Electronics & Comm. Engg. Dept.), Embedded System, (Electronics & Comm. Engg. Dept.), Wireless & Optical Communication (Electronics & Comm. Engg. Dept.), Industrial Engg., Production Engg. (Mechanical Engg. Dept.), Production Engg. (Mechanical Engg.), Design Engg. (Mechanical Engg.), Thermal Engineering (Mechanical Engg. Dept.) Metallurgical & Materials Engg. (Metallurgical & Materials Engg. Dept.), Steel Technology (Metallurgical & Materials Engg. Dept.), Material Science & Engg. (Dept. of MRC), M. Planning [Urban Planning] (Architecture & Planning Dept.), M. Sc. in Applied Physics in Physics Dept., M. Sc. in Applied Chemistry in Chemistry Dept., M. Sc. in Applied Mathematics in Mathematics Dept. are also offered. A full time M.B.A. is also offered.

The medium of instructions and examinations is English.



### 4.2 COURSE-WISE ENROLMENT

#### Course-wise students registered in Undergraduate Programmes 2016-17.

Programme	Branch	5 <sup>th</sup> Year & Back	4 <sup>th</sup> Year	3 <sup>rd</sup> Year	2 <sup>nd</sup> Year	1 <sup>st</sup> Year	Total
B.Arch.	Architecture	73	54	56	56	57	296
	Civil Engg.	18	89	87	99	97	390
	Chemical Engg.	10	81	86	94	87	358
	Computer Science & Engg.	18	100	97	99	103	417
	Electrical Engg.	5	89	93	91	95	373
	Electronics & Communication Engg.	14	93	102	102	99	410
	Information Technology	1	0	0	0	0	1
B.Tech.	Mechanical Engg.	13	99	98	98	103	411
	Metallurgical & Materials Engg.	12	79	76	83	83	333
	Total	164	684	695	722	724	2989

#### Category & gender wise summary of registered Undergraduate students during 2016-17

Programme	General		SC		ST		OBC		Total		Grand Total
i i ogi ullillo	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	(Male+Female)
UG	1102	382	374	58	170	51	706	146	2352	637	2989



## Course-wise students registered in Postgraduate Programmes 2016-17

S. No.	Programme		1 <sup>st</sup> Yea	r	2 <sup>nd</sup> Year	•	3 <sup>rd</sup> Year	Back 2013	; Total
			2016		2015		2014	onwards	21
1.	Urban Planning		16		15		0	0	31
2.	Renewable Energy		17		14		0	0	31
3.	Chemical Engg.		8		12		1	0	21
4.	Disaster Assessment and Mitigation		13		5		0	0	18
5.	Earthquake Engg.		12		9		0	0	21
6.	Environmental Engg.		23		11		3	0	37
7.	Structural Engg.		17		7		5	0	29
8.	Transportation Engg.		17		16		3	0	36
9.	Water Resources Engg.		14		13		1	0	28
10.	Computer Engg.		20		19		1	0	40
11.	Computer Engineering & Information Security		13		0		0	0	13
12.	Power Electronics & Drives		17		18		0	0	35
13.	Power Systems		19		17		2	0	38
14.	Electronics & Communication Engg.		17		15		0	0	32
15.	Embedded Systems		18		12		0	0	30
16.	VLSI Design		16		19		0	0	35
17.	Wireless & Optical Communication		15		13		2	0	30
18.	Design Engineering		12		10		0	0	22
19.	Industrial Engineering/MSE		22		14		3	0	39
20.	Production Engineering		13		9		0	0	22
21.	Thermal Engineering/Energy		10		10		0	1	21
22.	Metallurgical & Materials Engineering		15		8		2	0	25
23.	Steel Technology		3		5		0	0	8
24.	Material Science & Engineering		8		0		0	0	8
	Total	(A)	355		271		23	1	650
1.	M.Sc. in Applied Physics		23		23		0	0	46
2.	M.Sc. in Applied Chemistry		28		18		1	0	47
3.	M.Sc. in Applied Mathematics		29		24		1	0	54
	Total (B)		80		65		2	0	147
1.	M.B.A.		33	3	31		1	0	65
	Total (C)		33	3	31		1	0	65
	Total (A+B+C)		468	3	67		26	1	862





Programme	General		SC		ST		OBC		Total		Grand Total
i i ogi uninic	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	(Male+Female)
PG	279	140	86	32	40	19	189	77	594	268	862

#### Category & gender wise summary of registered Postgraduate students during 2016-17

#### Course-wise students registered in Ph.D. Programme 2016-17

S.	Programme	I Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	Beyond 5	Total
No.		2016	2015	2014	2013	2012	years	
1.	Architecture and Planning	3	3	1	0	0	0	7
2.	Centre for Energy and Environment	4	5	3	4	2	0	18
3.	Chemical Engineering	8	6	8	9	3	2	36
4.	Chemistry	13	1	5	7	3	1	30
5.	Civil Engineering	18	13	11	13	10	10	75
6.	Computer Science and Engineering	10	16	9	17	7	2	61
7.	Electrical Engineering	6	14	12	4	5	4	45
8.	Electronics and Communication Engineering	8	14	17	19	10	8	76
9.	Humanities and Social Science	4	1	2	3	1	2	13
10.	Management Studies	7	0	3	4	4	0	18
11.	Material Research Center	3	0	0	0	0	0	3
12.	Mathematics	2	3	0	4	4	2	15
13.	Mechanical Engineering	14	11	14	13	17	11	80
14.	Metallurgical and Materials Engineering	1	4	11	4	6	0	26
15.	National Centre for Disaster Mitigation and Management	2	2	0	0	0	0	4
16.	Physics	7	8	4	9	4	4	36
	Total (A)	110	101	100	110	76	46	543

#### Category & gender wise summary of registered Ph.D. students during 2016-17

Programme	General		SC		ST		OBC		Total		Grand Total
Trogramme	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	(Male+Female)
Ph.D.	279	125	35	4	5	2	65	28	384	159	543



#### 4.3 COURSE WISE ADMISSION STATISTICS-UG/PG PROGRAMMES

(a) Students admitted to Undergraduate B. Tech./B.Arch. programmes through CSAB (JoSAA) during the session 2016-17

S. No.	Branch	OP	OP PH	OBC	OBC PH	SC	SCPH	ST	STPH	Total
1.	Architecture	24	0	19	0	8	0	4	0	55
2.	Chemical Engg.	39	1	24	0	12	1	6	0	83
3.	Civil Engg.	40	0	26	2	13	0	6	1	88
4.	Computer Science & Engg.	42	1	27	2	14	0	7	0	93
5.	Electronics & Communication Engg.	39	1	25	1	14	0	7	0	87
6.	Electrical Engg.	44	1	25	1	13	1	7	0	92
7.	Mechanical Engg.	38	1	31	1	13	1	6	0	91
8.	Metallurgical & Materials Engg.	38	1	25	1	12	0	6	0	83
	TOTAL	304	6	202	8	99	3	49	1	672

# (b) Students admitted to Undergraduate B. Tech./B.Arch. programmes through DASA during the session 2016-17

S. No.	Branch	DASA			
	Dianch	CIWG	NON-SAARC	SAARC	
1.	Architecture	1	0	0	
2.	Chemical Engg.	1	1	0	
3.	Civil Engg.	2	0	3	
4.	Computer Science & Engg.	3	6	1	
5.	Electronics & Communication Engg.	4	4	2	
6.	Electrical Engg.	2	0	0	
7.	Mechanical Engg.	4	5	1	
	TOTAL	17	16	7	





(c)	Students admitted to Undergraduate B.Tech./B.Arch. programmes through ICCR/MEA
	during the session 2016-17

S. No.	Branch	ICCR	MEA Welfare	MEA Education
1.	Architecture	0	0	1
2.	Chemical Engg.	1	1	0
3.	Civil Engg.	1	2	1
4.	Electronics & Comm. Engg.	1	1	0
5.	Electrical Engg.	0	0	1
6.	Mechanical Engg.	0	1	1
	TOTAL	3	5	4

#### (d) Students admitted to Postgraduate Programmes during the session 2016-17 in M.Tech. / M.Plan./M.Sc./M.B.A. programmes

S. No.	PROGRAMMES	General	ST	SC	OBC	Sponsored	Part Time	Total
1.	Urban Planning	5	2	2	6	1	0	16
2.	Renewable Energy	6	2	4	4	1	0	17
3.	Chemical Engineering	6	1	1	0	0	0	8
4.	Disaster Assessment and Mitigation	7	1	2	3	0	0	13
5.	Earthquake Engineering	5	2	1	4	0	0	12
6.	Environmental Engineering	6	1	2	5	8	1	23
7.	Structural Engineering	5	0	2	6	2	2	17
8.	Transportation Engineering	6	1	2	4	1	3	17
9.	Water Resources Engineering	5	1	3	4	1	0	14
10.	Computer Engineering	6	1	3	5	2	3	20
11.	Power Electronics & Drives	5	2	2	8	0	0	17
12.	Power Systems	5	3	3	6	1	1	19
13.	Electronics & Communication Engineering	5	1	2	7	1	1	17



S. No.	PROGRAMMES	General	ST	SC	OBC	Sponsored	Part Time	Total
14.	Embedded Systems	8	2	3	5	0	0	18
15.	VLSI Design	8	2	3	1	0	2	16
16.	Wireless & Optical	1	2	5	7	0	0	15
	Communication	1	2	5		0	0	15
17.	Design Engineering	6	1	2	3	0	0	12
18.	Industrial Engineering	8	2	3	5	1	3	22
19.	Production Engineering	7	1	2	3	0	0	13
20.	Thermal Engineering	4	1	2	3	0	0	10
21.	Metallurgical & Materials	4	2	3	3	1	2	15
	Engineering	4		3	3	1	2	15
22.	Computer Engineering &	2	2	4	5	0	0	12
	Information Security	2		4	5	0	0	13
23.	Material Science &	3	1	1	3	0	0	08
	Engineering	5	1	1	5	0	0	08
24.	Steel Technology	0	0	2	1	0	0	3
	TOTAL	123	34	59	101	20	18	355
		•	1	M. S	с.		•	•
1.	M. Sc. Physics	12	1	2	8	0	0	23
2.	M. Sc. Chemistry	11	2	5	10	0	0	28
3.	M. Sc. Mathematics	11	3	5	10	0	0	29
	TOTAL	34	6	12	28	0	0	80
	1	ı	1	M.B.	A		1	1
1.	M.B.A.	24	0	4	5	0	0	33
	GRAND TOTAL		M. Tech/M. Plan/M. Sc./MBA					468



S. No.	Department	Students admitted		
<b>5.</b> INU.	Department	Full Time	Part Time	
1.	Architecture & Planning	3	0	
2.	Centre for Energy & Environment	3	0	
3.	Chemical Engineering	4	1	
4.	Chemistry	6	2	
5.	Civil Engineering	5	2	
6.	Computer Science & Engineering	4	3	
7.	Electrical Engineering	3	1	
8.	Electronics & Communication Engineering	3	2	
9.	Mathematics	1	0	
10.	Mechanical Engineering	4	3	
11.	Metallurgical & Materials Engineering	1	0	
12.	National Centre for Disaster Mitigation and Management	0	1	
13.	Physics	3	1	
14.	Management	3	0	
15.	Humanities & Social Sciences	1	1	
16.	Material Research Centre	1	1	
	Total	45	18	

(e) Students admitted to Ph.D. Programmes 2016-17 (July 2016)

### (f) Students admitted to Ph.D. Programmes 2016-17 (January 2017)

S. No.	Donartmont	Students a	Students admitted		
5. 190.	Department	Full Time	Part Time		
1.	Centre for Energy & Environment	1	0		
2.	Chemical Engineering	3	0		
3.	Chemistry	5	0		
4.	Civil Engineering	9	2		
5.	Computer Science & Engineering	3	0		



S. No.	Department	Students admitted		
5.110.	Department	Full Time	Part Time	
6.	Electrical Engineering	2	0	
7.	Electronics & Communication Engineering	2	1	
8.	Humanities & Social Sciences	1	1	
9.	Management Studies	4	0	
10.	Material Research Centre	1	0	
11.	Mathematics	0	1	
12.	Mechanical Engineering	5	2	
13.	National Centre for Disaster Mitigation and	1	0	
	Management			
14.	Physics	3	0	
	Total	40	7	

#### 4.4 Hostels

The capacity of hostel for boys and girls are as under:-

## Position of Hostels Rooms (Boys & Girls)

S.No.	Name of the Hostel	Total	Total number	Type of Rooms i.e. single/ double
		Capacity	of Room	bed/ other ( given name)
1	H1-PARIJAT	177	108	72 single
				36 triple
2	H2-CHAITANYA	169	108	72 single
				36 triple
3	H3-SATPURA	180	108	72 single
				36 triple
4	H4-LOHIT	140	108	72 single
				36 double
5	H5-BRIHASPATI	182	182	182 single





S.No.	Name of the Hostel	Total	Total number	Type of Rooms i.e. single/ double
		Capacity	of Room	bed/ other ( given name)
6	H6-KABIR	180	108	72 single
				36 triple
7	H7-DRONA	225	75	75 triple
8	H8-VARUN	212	212	212 single
0	H9-AUROBINDO	075	075	075 1
9	H9-AUKOBINDO	975	975	975 single
10	H10-PG HOSTEL	16	16	16 single
11	H11-MAITRI	206	130	48 single
				68 double
				14 triple
12	H12-GARGI	402	402	402 single

During the session July every year occupancy of hostel is 100%

Caretakers are responsible for looking after the students. They are supposed to given possession of rooms and to prepare vacation report. It is the duty of caretakers to maintain complaint register, electricity, civil, door, bathroom, cleaning, water, water cooler, Net working, glass etc, report to concerned authority and to pursue & monitor complaints. A list of caretakers in the hostel is as under:

S.	Warden	Hostel No.	Hostel	Mobile No.	Name of the	Mobile No.
No.			Name		Caretaker	
1	Dr. Tarush Chandra	Hostel No.1	Parijat	9549654390	Shri Satyanaryan	9549657363
2	Dr. Vijay Navratna	Hostel No.1	Parijat	9549650129	Pareek	
	Nadakuduru					
3	Dr. Dinesh Kumar	Hostel No.2	Chaitanya	9549654562	Shri Satyanarayan	9549657363
					Pareek	9887815657
					Shri Ankit Sharma	



SDr. C. PeriasamyHostel No.4Lohit9549654235Shri Pushpendra Kaushik98286333706Dr. R.K. DuchaniyaHostel No.5Brihaspati9549654246Shri Daul Chand Saini94143387507Dr. Rajeev Kumar DohreHostel No.6Kabir9549654168Shri Babu Lal Kumawat95496591908Dr. VivekanandHostel No.6Kabir9549654168Shri Babu Lal Kumawat95496591609Dr. Nitin GuptaHostel No.7Drona9549654168Shri Bhagwan Sahay Singhal954965916710Dr. Virendra SinghHostel No.7Drona9549657338Shri Devendra Kumar Singhal856186656211Dr. Shubhayan MadalHostel No.8Varun9549654569Shri Bawai Singh Singhal954965738813Dr. Harlal Singh MaliHostel No.9Aurobindo9549654561Shri Sawai Singh Bhati954965916614Dr. Sushant UpadhyayaHostel No.9Aurobindo9549654173 Shri Ajay Singh Shri Kuldeep Sharma Shri Sandeep978484931315Dr. Sumanta Kumar McherHostel No.10Kailash (P.G.)9549657645 ShriShri Bhupendra Pandey17Mr. Jai Narayan WcherHostel No.10Kailash (P.G.)9549657352Smrt Leela Rawat Shri Bhupendra Pandey18Dr. Urimla Brighu WardenCoordinating WardenGirls Warden9549657352 Smrt Leela Rawat Smrt Kripa Kumari Sch1938229549657321 Shri Arjun Singh Sch1938221	4	Dr. Amar Patnaik	Hostel No.3	Satpura	9549657318	Shri Balvir Singh	9549659040
5Dr. C. PeriasamyHostel No.4Lohit9549654235Shri Pushpendra Kaushik98286333706Dr. R.K. DuchaniyaHostel No.5Brihaspati9549654246Shri Daul Chand Saini94143387507Dr. Rajeev Kumar DohreHostel No.6Kabir9549654168Shri Babu Lal Kumawat95496591948Dr. VivekanandHostel No.6Kabir95496511360Shri Babu Lal Kumawat95496591679Dr. Nitin GuptaHostel No.7Drona95496541360Shri Bhagwan Sahay Singhal954965916710Dr. Virendra SinghHostel No.7Drona9549657338Shri Devendra Kumar Singhal856186656211Dr. Shubhayan MadalHostel No.8Varun9549654561Shri Sawai Singh Bhati954965738813Dr. Harlal Singh MaliHostel No.9Aurobindo9549654173 S49654561Shri Sawai Singh Shri Ajay Singh Shri Ajay Singh8058273136 Shri Kuldeep Sharma Pandey14Dr. Sushant MeherHostel No.9Aurobindo9549654856Shri Kuldeep Sharma Shri Sandeep9744869313 Shri Kuldeep Sharma Pandey16Dr. Emmanuel Pilli WardenHostel No.10Kailash (P.G.)9549657455 Shri SatyanaryanPareek9549657352 Smt Leela Rawat Smt Kripa Kumari Sci 9549823619Dr. Preeti Bhatt Hostel No.11Maitri Meter9549657321 Shri Arjun Singh Stof05321956023267	4	DI. Amai I amaik	1108101 110.5	Saipura	9549057518	C	9349039040
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17Mr. Jai NarayanHostel No.10Kailash (P.G.)9549657645Shri SatyanaryanPareek954965736318Dr. Urimla BrighuCoordinating WardenGirls954965421419Dr. Preeti BhattHostel No.11Maitri Hostel9549657352Smt. Leela Rawat Smt. Kripa Kumari7792893017 956193982820Dr. Suman RathoreHostel No.12Gargi9549657321Shri Arjun Singh8560022367	16	Dr. Emmanuel Pilli	Hostel No 9	Aurobindo	9549658131	Shri Bhupendra	
Image: Non-State(P.G.)SatyanaryanPareek18Dr. Urimla BrighuCoordinating WardenGirls954965421419Dr. Preeti BhattHostel No.11Maitri Hostel9549657352Smt. Leela Rawat Smt. Kripa Kumari7792893017 956193982820Dr. Suman RathoreHostel No.12Gargi9549657321Shri Arjun Singh8560022367						Pandey	
18Dr. Urimla BrighuCoordinating WardenGirls954965421419Dr. Preeti BhattHostel No.11Maitri Hostel9549657352Smt. Leela Rawat Smt. Kripa Kumari7792893017 956193982820Dr. Suman RathoreHostel No.12Gargi9549657321Shri Arjun Singh8560022367	17	Mr. Jai Narayan	Hostel No.10	Kailash	9549657645	Shri	9549657363
WardenWardenWarden19Dr. Preeti BhattHostel No.11Maitri Hostel9549657352Smt. Leela Rawat Smt. Kripa Kumari7792893017 956193982820Dr. Suman RathoreHostel No.12Gargi9549657321Shri Arjun Singh8560022367				(P.G.)		SatyanaryanPareek	
19Dr. Preeti BhattHostel No.11Maitri Hostel9549657352Smt. Leela Rawat779289301720Dr. Suman RathoreHostel No.12Gargi9549657321Shri Arjun Singh8560022367	18	Dr. Urimla Brighu	Coordinating	Girls	9549654214	-	-
Image: Log and the state of			Warden				
20Dr. Suman RathoreHostel No.12Gargi9549657321Shri Arjun Singh8560022367	19	Dr. Preeti Bhatt	Hostel No.11	Maitri	9549657352	Smt. Leela Rawat	7792893017
				Hostel		Smt. Kripa Kumari	9561939828
	20	Dr. Suman Rathore	Hostel No.12	Gargi	9549657321	Shri Arjun Singh	8560022367
Hostel				Hostel			





- A faculty member of MNIT shall be appointed as Warden of hostel on the recommendation of Chief Warden and with the approval of Director, MNIT
- Wardens are the local guardians of the students and are responsible for their moral, mental and physical well-being.
- The Warden shall run the hostel. He/she will look after the general administration of the hostel.
- The Warden shall appoint a committee amongst students i.e mess committee, reading room committee or other committee as required.
- The warden shall supervise the working of concerned mess under the guidance of the Chief Warden and shall see that rules and procedures are strictly observed in the mess and hostel.
- If any matter of indiscipline reported by the Caretaker or it comes to his/ her knowledge suq moto, he/she will refer the case to standing disciplinary committee with the approval of the Chief Warden.
- The list of Wardens attached with the hostel is as above.
- Chief Warden A faculty member of MNIT is appointed as Chief warden by the Director of MNIT
- The hostels and messes shall function under the supervision and administrative control of Chief Warden. All the wardens will act under the supervision and directions of The Chief Warden.
- The Chief Warden shall appoint various committees of Council of Wardens i.e. Standing Disciplinary Committee, Procurement, Reading Room, Indoor Sports and Constructive Engagement, Discipline and Anti-Ragging, open area, up keep, plantation and Landscaping, maintenance, estate matters and water management, allotment of rooms in hostels & website.
- The policy frame work/ decisions regards hostels shall be decided by the Chief Warden with the concurrence of the Council of Warden.
- The decisions of the Chief Warden and wardens in their respective jurisdiction shall be final.

Allotment of Rooms:- Rooms will be allotted by the hostel office as per the policy for the allotment of rooms as decided by the Chief Warden and Council of Wardens. The policy of allotment of rooms in the hostel is as under:-

After allotment of rooms in the hostel student will report to Caretaker who will maintain his/her record after seeing Challan will give the possession of room in the hostel after signing inventory of the furniture, electrical and other items in the room. Any student withdrawing the hostel will hand over the possession of room and clear all dues.

#### Policy regarding Anti Ragging

In the MNIT cases of ragging is zero tolerance. A team of Council of Wardens and Caretakers are constituted which will take up the round of hostels and hostel area. The teams will work from 06.00P.M. to 12.00 night.

#### **Mess Management**

There are four messes No. 1,6,7 & 8 and students of hostel No. PG, 2, 3, 4, 5 are attached for dining arrangement in these messes. These messes are managed by the Mess Assistant and mess workers work



under the Mess Assistant. The boarders shall compulsorily join the mess attached to it. Mess committee as constituted by the Wardens amongst students shall manage affairs of mess. There shall be a committee of Secretary, Assistant Secretary, Treasure and two members. Mess Committee shall decide the mess menu with the consultation of Mess Assistant and Wardens. Mess Secretary is responsible to check the raw material and will sign each bill voucher for payment.

Mess diet shall be calculated on the basis of monthly consumption in the mess.

Mess of Aurobindo mess is being operated by M/s Bon Temps (P) Ltd, Ahmadabad since 16/07/2014 and present diet per student per day is Rs. 76/-. Mess is managed by the mess committee

Mess of Gargi hostel is being operated by M/s Kissan Catering since August,2014 and present diet per student per day is Rs. 76/- per day and affairs of mess are managed by the Mess Committee as constituted by the Warden.

#### **Other Facilities**

- 1. There is one common room for each hostel, having the facility of a colour television, and one Table Tennis table.
- 2. We have installed Video surveillance, DVR & accessories at Aurobindo hostel & Gargi hostel entry point & MSH for the safety and security of the hostel.
- 3. We have provided a set of 3 mechanized cleaning machine at Gargi, Aurobindo and Varun Hostel for proper cleaning of the hostels.
- 4. We have replaced old furniture i.e. bed, table and chair in Hostel No. 1 to 3 by providing furniture of Godrej. We will replace fans in hostel No. 1 to 03 during this semester.
- 5. Biometric Machine are installed in the messes No. 2,6,7 & 8 for recording attendance of mess works.
- 6. There are facilities of canteen at Garg, Aurobindo and Hostel No. 4 which are being operated by Private vendors.
- 7. We have adopted ERP module. We are generating must roll i.e. salary preparation, leave, EPF etc. of mess works. Students wise be able to monitor status of mess account, Calculation of mess diet, analysis and posting of voucher etc. are under progress.
- 8. We have provided indoor and outdoor facilities in all the hostels. Similarly, reading room facility with newspapers & magazine have also been provided in all hostels.
- 9. We have provided 04 fox bathroom/ toilets mechanized machines for hostel No. 1 to 7
- 10. We have developed a beautiful garden and trees in Aurobindo hostel
- 11. Every hostel have water cooler & water purifier, this facility is also available in messes.
- 12. Every hostel have gysers in the bathroom for hot water during winter session.
- 13. The account of hostel office are maintained on ERP by a firm of chartered Accountant. M/s M. Raghumathan& Associates, Chartered Accountant is authorized to audit account of MNIT, Mess fund.

**Medical Facility** – There is one dispensary in the MNIT premises which opens from 08 A.M. to 08 P.M. There is teams of Doctors and nursing staff. During anti-ragging period one ambulance is available at hostel office and available at call for the students. After night one driver with ambulance is available for emergency



of students. In each hostel name of driver along with mobile No. is available in each hostel. In case any medicines required by the dispensary for the treatment of student is being made available to dispensary from MNIT Mess fund Account facility of ambulance is available to account the resident of the hostel without any charges. In case of emergency ( or during late night hours), the boarder can take ambulance to any hospital.

#### 4.5 SCHOLARSHIPS/ASSISTANTSHIP

Please see the details in Annexure 11.10

#### 4.6 GAMESAND SPORTS

Physical education & Sports is an important part of today's educational experience and physical activities are a part of this curriculum. An important characteristic of Physical education and Sport is its ability to draw upon a range of sciences to inform and advance in the fields of sport performance, exercise education, health and well-being through participation in various physical activities. Physical education and Sport will continue to pursue health and wellbeing mission for students, staffs and their family members. The vision – "Fit MNIT fit India" and excellence in Games and Sports has developed a confident understanding of issues of all round development of qualities like personality, positive leadership, motivation, commitment, men managing, cardio respiratory development, general motor ability, quick decision making ability, body sculpture, stress free life, Fitness & current global significance of Olympic sports. Rejoicing the success and accepting the failure and learning from it, that is exactly what sports teaches us and the mission of sports activities is to let the future engineers feel the spirit of sportsmanship.

Students, staff and their family members are enjoying and using Institute's indoor sports facilities. Physical Education and Sports have created and developed a positive and healthy sports culture in the Institute. Sports have been allotted 04-credit in the B. Tech. (I-IVth semester) course curriculum (Creative Arts) which is a unique example in NIT system of India.

#### 4.7 ACHIEVEMENTS IN GAMES & SPORTS

#### Participation of students in tournaments and results:

- 1. All India Inter NIT Athletic (Boys & Girls) & Gym Competition 2016-17, held at NIT Kurukshetra (Haryana): overall championship in power lifting, weight lifting, best men in body building and won 02 gold, 02 silver and 01bronze in athletics.
- 2. All India Inter NIT Table Tennis & Chess (Boys & Girls) Tournament 2016-17, held at NIT Srinagar (J&K): Won gold medal in chess girls and won silver in chess boys.
- 3. All India Inter NIT Basketball & Kabaddi (Boys & Girls) Tournament 2016-17, held at MNIT Jaipur (Rajasthan): Won gold medal in Kabaddi (Girls).
- 4. All India Inter NIT Football Tournaments 2016-17 held at NIT Tripura: Satisfactory performance.
- 5. Participated in Spree 2017 Invitational National Tournament 2016-17, held at BITS Pilani campus Goa, won silver medal in Badminton (Girls).
- 6. Participated in MST 2017 Invitational National Tournament 2016-17, held at MNIT Jaipur, won overall championship.



7. Spardha'16 Tournament was held at IIT BHU, Varanasi from 21st-23rd October 2016 in which more than 30 institutes/universities participated including our institute. Our contingent comprised of 46 students and the teams, which participated, are: Table Tennis (Men and Women), Chess (Men and Women), Badminton (Men and Women), Gym and Cricket.

The results are as follows:

- 8. Chess (Girls) secured **Silver Medal** out of 7 teams
- 9. Chess (Boys) secured **4th** position out of 15 teams
- 10. Badminton (Girls) secured **Bronze Medal** out of 11 teams
- 11. Gymnasium team secured Silver Medal (overall) and 2 bronze medals (individually)
- 12. Cricket team lost in the **quarter finals**
- 13. Table tennis (Boys) lost in pre-quarter finals

#### Activities organized by Institute during the session 2016-2017:

- 1. All India Inter NIT Basketball & Kabaddi (Men & Girls) Competition 2016-17.
- 2. Inter Branch Tournaments 2016-17 (Badminton, Basket ball, Cricket, Chess, Football, Volleyball, Gym, Tennis, and Table Tennis etc.)
- 3. Annual Athletic Meet 2016-17.
- 4. MNIT Sports Tournament (National Level) 2017.
- 5. Hong Kong Sixes Cricket Tournament 2017.
- 6. Intra Institute level Badminton Tournament 2017.
- 7. Mixed Volleyball, Badminton and Basketball Tournaments 2017.



### 4.8 EXAMINATION DETAILS

(a) Results of Undergraduate Courses of Final B.Tech./B.Arch. Courses Academic Session 2016-17

	No. of	No. of students passed with CGPA on a 10-point scale				
Disciplines	appeare d	Above 7.75 CGPA	7.74 to 6.75 CGPA	6.74 to 4.00 CGPA	in next semester	Total
Final B. Architecture	63	21	21	13	08	63
Final B. Tech. Civil Engg.	102	39	27	24	12	102
Final B. Tech. Chemical Engg.	87	29	26	18	14	87
Final B. Tech. Computer Science & Engg.	112	36	27	38	11	112
Final B. Tech. (Information Technology)	00	00	00	00	00	00
Final B. Tech. Electrical Engg.	90	29	36	20	5	90
Final B. Tech. Electronics & Communication Engg.	105	41	25	29	10	105
Final B. Tech. Mechanical Engg.	105	34	31	34	6	105
Final B. Tech. Metallurgical & Materials Engg.	85	26	25	29	5	85

# (b) Results of Postgraduate Courses of Final Year M.Tech./M.Plan./M.Sc./MBA Academic Session 2016-17

Disciplines	No. of students appeare d		udents passe on a 10-point 7.74 to 6.75 CGPA		Registered in next semester	Tot al
M.Tech. in Chemical Engineering	11	3	6	2 2	0	11
M.Tech. in Environmental Engg.	12	7	5	0	0	12
M.Tech. in Water Resources Engg.	13	4	6	3	0	13
M.Tech. in Structural Engg.	9	7	2	0	0	9
M.Tech. in Power Systems	14	5	6	3	0	14
M.Tech. in Transportation Engg.	13	8	5	0	0	13



	No. of students	No. of students passed with CGPA on a 10-point scale			Registered	Tot
Disciplines	appeare d	Above 7.75 CGPA	7.74 to 6.75 CGPA	6.74 to 5.0 CGPA	in next semester	al
M.Tech. in Industrial Engg./MSE	16	3	9	4	0	16
M.Tech. in Metallurgical & Materials Engg.	10	5	3	2	0	10
M.Tech. in Electronics & Comm. Engg.	12	6	6	0	0	12
M.Tech. in Embedded Systems	11	7	4	0	0	11
M.Tech. in Wireless and Optical Communication	12	9	3	0	0	12
M.Tech. in VLSI Design	16	12	3	1	0	16
M.Tech. in Thermal Engineering	9	7	2	0	0	9
M.Tech. in Computer Engineering	21	10	10	1	0	21
M.Tech. in Disaster Assessment and Mitigation	5	4	1	0	0	5
M.Tech. in Renewable Energy	10	8	2	0	0	10
M.Tech. in Production Engg.	7	2	5	0	0	7
M.Tech. in Design Engg.	10	4	4	2	0	10
M.Tech. in Steel Technology	5	4	0	1	0	5
M.Tech. in Urban Planning	14	6	5	3	0	14
M. Tech. in Power Electronics & Drives	15	7	7	1	0	15
M. Tech. in Earthquake Engineering	9	5	3	1	0	9
M. Sc. Applied Physics	23	7	12	4	0	23
M. Sc. Applied Chemistry	18	14	4	0	0	18
M. Sc. Applied Mathematics	21	8	9	4	0	21
M.B.A.	30	8	17	5	0	30

#### 4.9 TRAINING AND PLACEMENT

Details are given in Annexure 11.11

#### 4.11 CONVOCATION

The 11th Annual Convocation of the Institute was held on 21st January 2017. The Chief Guest of the Convocation was Prof. Ashutosh Sharma, Secretary to the Government of India, Department of Science & Technology.





## Total degree recipients as under:

Programme	Total degrees
B. Arch.	55
B. Tech.	615
M. Tech.	288
M. Planning	14
M. Sc.	43
M.B.A.	31
Ph.D.	57
TOTAL	1103

## **UG Programmes**

Branch	Total degrees
Architecture	55
Civil Engineering	80
Chemical Engineering	85
Computer Science & Engineering	88
Electrical Engineering	97
Electronics & Communication Engineering	84
Information Technology	2
Mechanical Engineering	96
Metallurgical & Materials Engg.	83
TOTAL	670



## PG Programmes

S. No.	Branch	Total Degree
1.	Chemical Engineering	15
2.	Environmental Engineering	14
3.	Transportation Engineering	11
4.	Structural Engineering	12
5.	Water Resources Engineering	11
6.	Disaster Assessment & Mitigation Engineering	10
7.	Renewable Energy Engineering	12
8.	Computer Engineering	26
9.	Power Systems	12
10.	Electronics & Communication Engineering	30
11.	VLSI Design	21
12.	Energy Engineering	3
13.	Thermal En gineering	12
14.	Embedded System	16
15.	Industrial Engineering	19
16.	Production Engineering	9
17.	Design Engineering	14
18.	Metallurgical & Materials Engineering	15
19.	Steel Technology	7
20.	Wireless & Optical Communication	19
21.	Urban Planning	14
22.	M. Sc. Applied Chemistry	15
23.	M. Sc. Applied Mathematics	10
24.	M. Sc. Applied Physics	18
25.	M.B.A.	31
	TOTAL	376





S. No.	Branch	<b>Total degrees</b>
1.	Chemical Engineering	4
2.	Chemistry	2
3.	Civil Engineering	12
4.	Computer Science & Engineering	6
5.	Electrical Engineering	5
6.	Electronics & Communication Engineering	6
7.	Management Studies	1
8.	Mathematics	5
9.	Mechanical Engineering	13
10.	Physics	1
11.	Centre for Energy & Environment	1
12.	Humanities & Social Sciences	1
	TOTAL	57

#### Ph.D. Programmes

### 5. RESEARCH AND DEVELOPMENT ACTIVITIES

Research and Development at MNIT Jaipur is one of the focal point to achieve its vision of developing cutting edge technology to meet the current and future challenges of technological development. The rich experience and talents of the faculty, combined with their passion and dedication for research, development and consultancy in their respective areas has created excellent results. The focus on research is not limited to the faculty members in their laboratories of the Institute but is pervasive beyond it in classrooms and fields as reflected in its relevance and rigor in all academic programmes of the Institute.

The Research and Development activities are supervised by the Research and Consultancy Cell at MNIT headed by Dean – Research and Consultancy. The cell is established with the objective of fostering in the Institute an enabling environment conducive for promoting and encouraging research, consultancy and other extension and professional activities among faculty and students. The Office of Dean – Research and Consultancy (ODRC) monitors all externally and internally funded and sponsored research, professional consultancy and development activities.





S.	Consultancy &	2016-17	
No.	Project		
		Number Consultancy &	Amount of R&D Fund
		Project	sanctioned
1.	Consultancy	950	15 Crores
2.	Project	7	9 Crores

Some of the Salient data for the year is as under:

#### 5.1 **Ph.D. PROGRAMMES**

#### **Ph.D. programmes**

The Institute offers a full time/part time advanced programme leading to the Ph.D. degree in the areas of Engineering/Technology/Sciences/Humanities & Social Sciences, Management. Admission to these programmes is open to individuals from all disciplines, twice a year, for the Odd (July) and Even (January) semesters. The admission process is based on the past academic record, a research proposal, references and a personal interview. Upon admission students have to complete minimum course requirements and clear a comprehensive examination before commencing with their doctoral research under the guidance of a supervisor and research committee of the student concerned. The Institute offers a variety of competitive scholarship and assistance to full-time Ph.D. students.

Minimum Qualifications	Normal duration	Maximum duration
B.Tech./M.Sc./MBA	Full Time: 6 Semesters	10 Semesters
M.Tech.	Part Time: 4 Semesters	10 Semesters

# 5.2 DETAILS OF PH.D. AWARDED FROM 1ST APRIL 2016 TO 31ST MARCH 2017 (11TH CONVOCATION)

S.No.	Department	Total degrees
1.	Centre for Energy & Environment	1
2.	Civil Engineering	10
3.	Chemical Engineering	2
4.	Chemistry	2
5.	Computer Science & Engineering	4
6.	Electrical Engineering	4





S.No.	Department	Total degrees
7.	Electronics & Communication Engg.	5
8.	Humanities & Social Sciences	1
9.	Mathematics	4
10.	Mechanical Engg.	13
11.	Physics	1
	TOTAL	47

#### **5.3 PROPOSED PLAN FOR RESEARCH**

Each department of the Institute has identified its area of strength and intends to focus on these areas for best results. Full-Time Ph.D. studentships are also proposed to attract engineering graduates to pursue research at the Institute.

#### **5.4 CENTRES OF EXCELLENCE**

#### 1. Materials Research Centre

The Material Research centre envisions emerging as research intensive centre for interdisciplinary research in frontiers of Materials technology. It further envisions creation and maintenance of appropriate ambience entailing research in drives for development of appropriate materials technology. The center aims at fostering the growth of demanding technology of the day vis-à-vis creation of new knowledge pertaining to meaningful industry-institution interaction for invention & being a centre for innovation on materials science and technology , it contemplates striving for excellence knowledge creation & dissemination for useful economic activities beside creation of new generation scientist resources of the country to take the lead role in mastering the technology development activities across the globe. The Materials Research Centre of MNIT will continue hybridization of be latest facilities of science and engineering in order that a true culture of cooperative and participative activities in material science and technology emblems the birth of the real sense interdisciplinary entity.

S.	Name of Equipment
No.	
1	HRTEM
2	FESEM with EBSD
3	X-ray Photo Electron Spectroscopy( with AES and UPS)
4	SPM/AFM
5	XRD

#### List of Equipment in MRC



S.	Name of Equipment
No.	
6	Mass Spectrometer
7	NMR Spectrometer
8	GDS – Glow Discharge Spectrometer
9	FTIR
10	Fluorescence Spectrophotometer
11	UV – Visible (NIR) Spectrometer
12	DMA
13	DTA – TGA
14	Thermal CVD system
15	RF-DC Sputtering
16	Electron Beam Vacuum Coating Unit
17	Ball Milling
18	Specimen Preparation for optical and electron
	microscopy
19	Semiconductor Device Analyzer and Function Generator
20	COMSOL Software
21	Microwav e Reactor
22	Spin Coater
23	De - Ionized Water Plant
24	Zeta Potential & Nano Partical Analyzer
25	Impedance Analyzer
26	Confocal Raman with PL
27	Optical Microscope
28	Probe Station
29	Micro Hardness Tester
30	Hall Measurement System
31	Material s Studio Software
32	Universal Testing Machine
33	Liquid Nitrogen Plant





## **Faculty Members**

S.No	Name	Department	Post	Contact No.	E-mail ID
1.	Dr. Kanupriya Sachdev	Physics	HOD	9829128200	sach kanu@yahoo.co.in
	Di. Ixanupi iya Sachuev	1 119 5105	nob	9549657337	such_kunu@ydiloo.co.iii
2.		<u> </u>		9414522144	
	Dr. Ragini Gupta	Chemistry	Associate Prof.	9549654854	guptaragini@yahoo.com
3.	Dr. Amit Singh	Mechanical	Assistant Prof.	9549657317	asmnitj@gmail.com

## List of Proposed Equipment for DST-FIST (2017)

S. No.	Name of the	Approximate	Justifications / Applications
	Equipment	Cost (in Lakh)	
			It is the perfect tool for measuring thin film thickness and optical
1	Ellipsometer	80	constants (n and k) with high accuracy for single and multiple layer
			thin film structures. Thickness determinations range from a few
			angstroms to tens of microns. Characterization of advanced material
			properties are also possible such as: anisotropic structures, graded and
			non-uniform layers, alloy composition.
			It is a measuring instrument used to measure a surface's profile, in
2	Surface	45	order to quantify its roughness. Critical dimensions as step, curvature,
	Profilometer		flatness are computed from the surface topography.
			It is a proven instrument for the rapid determination of the Carbon,
3	CHNSO	50	Hydrogen, Nitrogen, Sulphur or Oxygen content in organic and other
	Elements		types of materials. It has the capability of handling a wide variety of
	Analyser		sample types in the field of pharmaceuticals, polymers, chemicals,
			environmental and energy, including solids, liquids, volatile and
			viscous samples.
			Electrochemical workstation is ideal for fundamental research in
4	Electro	70	electrochemistry, development and quality assurance of new sensors,
	Chemical		corrosion/coatings, electrode material, membrane, conducting
	Work Station		polymer, evaluation power device research such as battery materials,
			fuel cells, super capacitors and solar cells.



GCM S	50	GC-MS provides enhanced sample identification, higher sensitivity, an increased range of analyzable samples, and faster results, which
		enable a whole new range of applications for GC-MS in several areas. Medicine, Environmental Monitoring, Food and Fragrance Analysis,
		Pharmaceutical Applications, Forensic Applications, Biological
		Analysis, Chemical Warfare, Geochemical Research, Industrial Applications.
		Specific surface area determinations measuring the external surface
BET	100	area and open pores of macroporous and mesoporous materials, along with pore volume and area distributions that characterise porosity
		below the effective range of mercury intrusion porosimetry are
		techniques that can be especially useful for studies of artificial bone
		materials, catalysts, particle and gas filtration, fuel cell technology,
		absorbents, sintering studies, zeolites and reactivity studies of
		materials among a variety of other applications.
XRF	100	X-Ray fluorescence (XRF) is a rapid, relatively non-destructive chemical or elemental analysis of rocks, minerals, sediments, fluids, and soils. Its purpose is to identify the elemental abundances of the sample. It is used in a wide range of applications, including mining (e.g. measuring the grade of gold ore), metallurgy (e.g. quality control), soil surveys, cement production, ceramic & glass manufacturing, petroleum industry (e.g., sulphur content of crude oils and petroleum products), field analysis in geological and environmental studies, and research in igneous, sedimentary, and metamorphic petrology etc.
		The technique of PLD has been used to deposit high quality films of
Pulsed Laser	100	materials. It is quite easy to produce multi-layer film composed of
-		two or more materials. Besides, by controlling the number of pulses, a
(PLD) System		fine control of film thickness can be achieved. Thus a fast response in exploiting new material system is a unique feature of PLD among
		other deposition methods. The most important feature of PLD is that
		the stoichiometry of the target can be retained in the deposited films.
	BET	BET 100 XRF 100



			A scanning electron microscope (SEM) scans a focused
9	Table Top SEM	60	electron beam over a surface to create an image. The electrons in
	with EDS		the beam interact with the sample, producing various signals that can
			be used to obtain information about the surface topography and
			composition. The SEM is also widely used to identify phases based
			on qualitative chemical analysis and/or crystalline structure. Precise
			measurement of very small features and objects down to 50 nm in
			size is also accomplished using the SEM.
			The technique of fluorescence microscopy has become an essential
10	Fluorescence	15	tool in biology and the biomedical sciences, as well as in materials
10	Microscope	10	science due to attributes that are not readily available in other contrast
	meroscope		modes with traditional optical microscopy. The application of an
			array of fluorochromes has made it possible to identify cells and sub-
			microscopic cellular components with a high degree of specificity
			amid non-fluorescing material. In fact, the fluorescence microscope is
			capable of revealing the presence of a single molecule. Through the
			use of multiple fluorescence labeling, different probes can
			simultaneously identify several target molecules simultaneously.
11	Spark Plasma	70	This facilitates a very high heating or cooling rate (up to 1000 K/min),
	Sintering (SPS)	,	hence the sintering process generally is very fast (within a few minutes).
	Sintering (SI S)		The general speed of the process ensures it has the potential of densifying
			powders with nano size or nanostructure while avoiding coarsening which
			accompanies standard densification routes. This has made SPS a good
			method for preparation of ceramics based on nano particles with enhanced
			piezoelectric, thermoelectric, optical or biomedical properties. SPS is
			also used for sintering of Carbon Nano tubes for development of field
			electron emission electrodes.
12	Thermoelectric	50	It will be able to effectively measure the thermal conductivity (8),
	Measurement	20	electrical conductivity (Ã), Seebeck coefficient (s), Figure of Merritt
	System		(z) and most importantly the efficiency $(\cdot)$ of a nano-scale
	~ <i>j</i> = • • • • •		thermoelectric device.



13Thermal40Thermal conductivity measures the ability of heat. Exact measurements of this material pro- understanding and optimizing energy effic thermal performance of materials in a wid	
Setup understanding and optimizing energy effic	nerty are essential for
	perty are essential for
thermal performance of materials in a wid	iency and predicting
	e range of industries
including construction, electronics, aerospace,	automotive, and many
more.	
14Planetary BallPlanetary Mills are ideally suited for fin	ne grinding of hard,
Milling (P-7) medium-hard, soft, brittle, tough and m	noist materials. The
comminution of the material to be	ground takes place
primarily through the high-energy impact	of grinding balls in
rotating grinding bowls.	
15 Furnace	
16 Glove Box	

#### **Process and Fees For application of Testing**

A separate Annexure has been attached for different categorized organization's facilities usage charge with MRC facility form.

#### Area Breakup as per Lab

S. No.	Name of Lab	Equipment
		a. High Resolution Transmission Electron
1	Advance Microscopy Lab	Microscope [HR-TEM]
1		b. Multi Mode Scanning Probe Microscope
		[AFM]
		a. FESEM
2	Structural & Surface Morphology Lab	b. Optical Microscope
		c. Micro-Hardness Tester





S. No.	Name of Lab	Equipment
		a. Ball Mill
		b. Abrasive Cutter
		c. Low precision Diamond Cutter
		d. Hot Mounting Press
		e. Grinder Polisher
		f. Semi-Automatic Polishing
		g. Hot Plate
3	Sample Preparation Lab	h. Dimple Grinding With Stereomicroscope
		i. Ion Beam Milling
		j. Twin Jet Tenupol
		k. Ultra Sonicator
		1. Vacuum Impregnator
		m. Mask Planar Milling System
		n. Ultra Sonic Disc Cutter with cross
		sectional TEM Sample Kit
		a. High Vacuum Thermal Coating
		b. Chemical Vapour Deposition
4	Thin Film Deposition Lab	c. RF/DC Magnetron Sputtering Unit
		d. Microwave Reactor
		e. Spin Coater
		a. Confocal Raman Spectroscope with PL
E	Mass Spectroscopy Lab	b. Mass Spectrometer
5		c. Glow Discharge Spectrometer
		d. Atomic Absorption Spectrometer
		a. Semiconductor Device Analyzer
		b. Probe Station
	Electronics Lab	c. Impedance Analyzer
		d. Zeta Potential and Nano patical size
6		Analyzer
		e. Waveform Generator and Digital
		Oscilloscop
		f. Hall Measurement Setup



S. No.	Name of Lab	Equipment
		a. Fourier Transform Infrared
		spectrometer(FTIR)
7	Optical/Thermal/Mechanical	b. UV-Vis-NIR spectrophotometer
/	Characterization Lab	c. Fluorescence Spectrometer
		d. Dynamic Mechanical Analyzer
		e. TGA-DTA
8	NMP Spectroscopy Lab	Nuclear Magnetic Resonance (NMR)
0	NMR Spectroscopy Lab	Spectroscopy Lab
9	Computational Lab	a. COMSOL : Multiphysics Software
9	Computational Lab	b. Materials Studio
10	X-Ray Spectroscopy Lab	a X-Ray Photoelectron Spectroscope
10	A-Ray Specificscopy Lab	b. X-Ray Diffractometer
11	Liquid Nitrogen Plant	
12	Universal Testing Machine	

#### 2. Centre for Advance Design

#### **Objective**

Centre for Advanced Design is aimed at promoting inter disciplinary research and provides a platform to students to work together with hands on exposure in bringing up latest technological innovations.

#### **Facilities**

Centre is equipped welt state of art Design and Simulation tools which give first-hand experience to young and novice engineers to use the advanced simulation and design tools to their advantage. The state of the art facilities enable to take a bird's eye view of the initial design to the complete detailed analysis of the design. Some of the focused areas are

- Hardware: High-end Workstations, Intel Xeon Processor Six core @3.33GHz60 Work and dual TFTs
- Software: Hyper Mesh Radios Non linear, Optistruct, Motion View and Motion solve, Acu Console and Acu Solve, hyper Form, Hyper-Xtrude, sim Lab, Solid Thinking.

#### Lab VIEW

- 3D Printing (AHA FDM Based 3D Printer)
- 3D Scanning (Steinbeichler, I MP Sensor Head with 200m Field of View
- Non Contact Inspection (Reverse Engineering Software, COMET PLUS)
- Soft Tooling (Silicone Rubber Mold)
- Wax Injector Unit for Soft Tooling





#### **Functional Areas:**

- Pre Processing, Mathematical Modeling, Linear & Nonlinear Solver, Dynamic Solver, Optimization CFD, Extrusion Simulation, Industrial Design & Styling, Structural Modeling/Analysis, Rebar Detailing, Building Energy Analysis
- Finite Element Based Design Optimisation through Altair Optistruct
- Advanced FE analysis such as MultiBody Simulation
- Crash Simulations using Radioss and other different solvers. Advanced Meshing techniques to perform full 3D simulations.

#### **Achievements**

Several Workshops and Design Challenges have been conducted to encourage among students interdisciplinary team working and focus oriented approach. As a result of the first round of Proto-builder Design challenge, we are able to nurture the innovative thinking process of young minds and the centre plans to take it to next level by supporting the best ideas that have a potential of commercial/social value. Inter NIT Design competition is planned to bring together some of the best minds and provide a platform for bringing out the innovations.

#### Protobuilder Design Challenge:

A Design competition is organized every year to promote the Interdisciplinary research. The event is conducted in four stages and a total of 14 Teams (each team with 3 Members minimum with at least one member from other discipline) participates in the event.

Following Platform Workshops were conducted as a part of the event:

- 1. Workshop on Hyperworks- Solid Think INSPIRE and Hypermesh
- 2. Workshop on Hypermesh-Radioss, Optistruct

#### Several other student workshops on different platforms that are conducted are listed as below:

Workshop on structural optimization using Altair optistruct

Workshop on design styling using inspire solid thinking

Workshop on electronics design using Hyperworks

Workshop on Multibody dynamics & Design Optimization

#### Details of the Events Conducted by Centre for Advanced Design during Year 2016-2017.

S.No	Activity	Dates
1	Workshop on structural optimization using Altair optistruct I	3rd - 4th September, 2016
2	Workshop on design styling using inspire solid thinking	17th-18th Sept, 2016
3	Workshop on Multibody dynamics & Design Optimization	5th – 6th Nov, 2016
4	Advanced Workshop on structural optimization using Altair Optistruct	4th- 5th March, 2017



#### 3. Centre for Development of Stones

#### List of Publications in International Journals

- 1. M. J. Pawar, Amar Patnaik, Ravindra Nagar. (2016). Numerical Simulation and Experimental Validation of Granite Powder Filled Jute Epoxy Composite for Slurry Jet Erosive Wear. International Polymer Processing, DOI 10.3139/217.3135. I.F = 0.523.
- 2. M. J. Pawar, Amar Patnaik, Ravindra Nagar. (2016). Mechanical and Thermo-Mechanical Analysis Based Numerical Simulation of Granite Powder Filled Polymer Composites for Wind Turbine Blade, Fibers and Polymers. 17(7), 1078–1089. I.F=0.88.

#### **Book Chapters**

- [1] I.K. Bhat, Amar Patnaik, Shiv Ranjan Kumar (2017) Investigation of wear characteristics of dental composite reinforced with rice husk derived nanosilica filler Particles, Handbook of composites from renewable materials: Nanocomposites: Science and Fundamentals, being published by prestigious Wiley Scrivener publisher, Beverly, MA Volume 7, (227–248).
- [2] Amar Patnaik, I.K.Bhat, Swati Gangwar, (2017) Manufacturing and Characterization of Quicklime (CaO) filled ZA-27 Metal Alloy Composites for Single Row Deep Groove Ball Bearing, being published by prestigious. Handbook of composites from renewable materials: Design and Manufacturing, Wiley Scrivener publisher, Beverly, MA, Volume 2, 133-158.

S1 No	Title of Patent	Inventors	Patent Application Number	Status
1	Fabrication of polymeric dental	Shiv Ranjan Kumar		Application
	composites by adding new filler	Dr. Amar Patnaik	1321/DEL/2015	awaiting
	Gypsum	Prof. I.K. Bhat		examination
2	Erosion wear resistant polymer	M. J. Pawar		Application
	composite laminate filled with	Dr. Amar Patnaik	1322/DEL/2015	awaiting
	granite powder waste	Prof. Ravindra Nagar		examination
3	Granite powder reinforced	Vikash Gautam		Application
	hydraulic turbine blades	Dr. Amar Patnaik	1320/DEL/2015	awaiting
		Prof. I.K. Bhat		examination
4	Marble dust reinforced copper	Swati Gangwar		Application
	alloy composite fabrication	Dr. Amar Patnaik	1319/DEL/2015	awaiting
		Prof. I.K. Bhat		examination
5	Development and	Prof. I.K. Bhat,		
	characterization of self healing	Dr. Amar Patnaik,	201611002648	Filed
	and antibacterial dental material	Mr. Shiv Ranjan Kumar	201011002048	



S1 No	Title of Patent	Inventors	Patent Application Number	Status
6	Slurry erosion wear assessment of marble dust powder reinforced aluminum alloy composites hydraulic turbine blade	Prof. I.K. Bhat, Dr. Amar Patnaik, Mr. Vikash Gautam	201611002651	Filed
7.	Recycling Kota-stone Waste as Aggregate in Bituminous Mixes	Dr. Pawan Kalla; Aditya Rana; Mohit Sharma Prof. Ravindra Nagar; Prof. Inder Krishnan Bhat	201611027417	Filed
8.	Smart Stone Cutters based on direct use of Electromagnetic Forces and Intelligent Electronics Circuitry	Dr. Harlal Singh Mali, Bhargav Pathri, Sandeep, Manish, Ankit, Rohit	201611027416	Filed

#### **Recent activities of CDOS Stone Chair**

- 1. Workshop on Gainful Utilization of Marble Slurry and Other Stone Wastes "held on 13th July 2017, at Prabha Bhawan, MNIT, J.L.N. Marg, Jaipur
- 2. A workshop on gainful utilization of marble slurry and other stone waste was organized by Office of Commissioner Industries, Govt. of Rajasthan and CDOS in Udyog Bhawan, Jaipur on 24th April 2015.
- 3. Technical session meeting was held on Stone Mart on 3 Feb 2017 in CDOS Jaipur
- 4. Stone Research Chair Review Meeting was held on 22nd Nov., 2016 at Tribology Lab, MNIT Jaipur

#### List of Ph.D thesis Awarded / Submitted



SI.N 0	Name of Student	Year	Title of the Dissertation	Supervisors
1.	Manoj Pawar	2016	Experimental Studies on	Dr. Amar Patnaik
	Submitting on	(Awarded)	Mechanical, Thermal and Erosive Wear Characteristics of Granite Powder Filled Fiber Reinforced	Prof. R. Nagar
			Polymer Composites for Wind Turbine Blade	
2.	Sarabjeet Singh	2016	Strength and Durability Studies on	Prof. Ravindra Nagar
		(Awarded)	Concrete Containing Granite Cutting Waste as Partial Replacement of Sand	Dr. Vinay Agarwal
3.	Bhargav Prajwal	2017	Study of Morphology and Physical,	Dr. H. S. Mali
	Pathri	(Awarded)	Mechanical & Thermal Properties of Various Stones with a view to	Prof. Ravindra Nagar
			Optimise their Cutting & Machining Parameter's	
4.	Aditya Rana	2017 ( <b>Awarded</b> )	Sustainable reuse of Kota Stone Waste in Concrete.	Dr. Pawan Kalla

#### List of Faculty members involved in the Centre

Sl. No.	Name of the faculty	Designation	Role in CDOS centre
1	Prof. Ravindra Nagar	Dean Academic Affairs & Professor of Structural Engineering	Stone Research Chair
2	Dr. Pawan Kalla	Assistant Professor Department of Civil Engineering	Coordinator
3	Dr. H. S. Mali	Assistant Professor Department of Mechanical Engineering	Coordinator
4	Dr. Amar Patnaik	Assistant Professor Department of Mechanical Engineering	Coordinator



#### 5.5 INSTITUTE-INDUSTRY COLLABORATION

#### MNIT Innovation and Incubation Center (MIIC) / Entrepreneurship Development Cell

#### **Brief about MIIC**

MNIT Innovation and Incubation Center (MIIC) registered as a Society under Rajasthan Society registration Act 1958 on 7-Apr'16. It is a Technology Business Incubator (TBI) sanction by DST, Govt of India with a funding of Rs. 425 Lacsunder various heads. MIIC services are open to any individual having an innovative idea and plans to be a part of MIIC.

#### **MIIC Vision:**

To promote and nurture incubation and entrepreneurships

#### **Mission:**

To provide a platform for conceiving, realizing, promoting & nurturing knowledge based Innovation & Entrepreneurship amongst all aspiring entrepreneurs from Rajasthan

#### **Objectives of MIIC**

- To promote new technology / knowledge / innovation based startups.
- To provide a platform for speedy commercialization of technologies developed
- To build a vibrant startup ecosystem, by establishing a network between academia, financial institutions, industries, successful entrepreneur, market experts, business etc.
- To provide cost effective, value added services to startups like mentoring, legal financial, technical, intellectual property and other services.

#### **MIIC Services**

- MIIC provides the following services:
- Co-working space 0 0 Technical/business mentoring 0 0 **Commercialization Advice** 0 0 0
- Lab Facilities 0
- Networking 0

- Relevant Trainings & Workshops
- Meetings with entrepreneurs
- Awareness about Govt relevant policies
- ITP Technology Transfer

#### **MIIC Executive Committee**

MIIC society members are people from renowned institutions and industries of Rajasthan. Following are the office bearers:



S.No.	Name	Designation	Position in MIIC
1	Prof. Udaykumar Yaragatti	Director, MNIT	President
2	Prof. Awadhesh Bharadwaj	Professor Mechanical Engineering MNIT	Secretary
3	Dr. Monica Sharma	Assistant Professor Management MNIT	Treasurer

#### MIIC Workforce

S.No.	Name	Position
1	Mr. Prashant Pal	Manager

MIIC is situated within the campus of MNIT getting help of MNIT staff as per the requirements related to accounts, Admin and other logistic needs.

#### Startups at MIIC

At Present five companies are incubating their ideas in MIIC. Recently four more startups have been selected for incubation and we have initiated the formal on boarding process.



**Greenhertz Dynamics** has developed an improved biomass cook stove named TEJAS<sup>TM</sup>. It is a modern replacement for traditional mud stoves (chulhas) that can change the way cooking is done in rural areas by delivering up to 60% fuel savings and 80% smoke reduction while working on all solid biomass fuels.

Marktine offers novel and ingenious business solutions through Data Driven

Marketing stratagem powered by data, science and technology. Tailor made solutions are provided to customers, behavioral patterns well matched and suited to

# MARKTINE



newest technology. **Strado** provides best deals to customers depending on their different requirements to eat, drink, party, hangout, listen to good music, watch live cricket, football etc., lunch/dinner. Strado redefine the way youngsters spend their leisure time making



**www.BookBuggs.com** is set up with the vision of organizing and redeveloping the second hand course books market. They believe that books are the primary medium of studying and the information it contains isn't limited to new books only. They have created a platform for second hand books market.



**JW** Advertisement is advertising cum manufacturing company. They tend to supply a new product to their consumer, which serves not only as an advertising product but also as regular commodity (Notebooks) which people use in day to day life. Startup aims to capture maximum notebook market and promote notebook with exciting offers to all students.

every minute memorable.



#### **Other updates of MIIC**

- A new building for MIIC is being constructed within the campus with total area of approx. 42,000 Sq ft and the building is expected to be ready by end of Sept'17.
- MIIC has signed an **MOU** with **"iBuild Hub"** for sharing of co-working space of technical expertise across centers available in other cities.
- MIIC is in discussion with "University of California, Aalto University of Finland & National University of Singapore" for collaborative MOU to promote culture of "Innovations & Entrepreneurships".
- **"Innovation Hunt"** program was organized to promote innovations and entrepreneurship among the students of MNIT on 7-May'17 in which total 14 team made presentation to a Jury of industrial & technical experts, invited from distinguished institutions.
- Focus Group Discussion was organized on 19th April '17 with industry experts, mentors & advisors to align incubations center's processes & offerings with latest requirements. Experts were invited from CII, FICCI, SIDBI, Industry, RIICO, RVCF and other organization.
- **ENSPIRE** program was organized on 8th April'17 in which successful entrepreneurs of Jaipur were invited for panel discussion and they shared end to end journey of their startup.
- **Startup-Nivesh** program was organized on 25th Feb' 17 by MIIC. It was program in which students of MNIT participated to race the hearts and minds of the participants in an economic adventure of a game.
- **AspireB-QUIZ** was organized to introduce the technical world to the business world with the help of a business quiz ASPIRE 2017 on 26th Feb'17 at MNIT. It struck the whole crowd comprising of more than 50 teams from various colleges with awe as the quizmaster bombarded them with questions.
- Entrepreneurship Awareness Camp was organized in different Science and Technology institutes across Rajasthan.

#### **Best Practices**

- 2 years of **deferred placement policy** was introduced for MNIT students who have an innovative business idea and want to incubate in MIIC. This policy gives the students an opportunity to work freely in making their idea a success, without the worry of not taking up campus placement with their peers. It gives them riskfree two years to work on their idea with an opportunity to take part is in campus placement in case the idea is not successful.
- MIIC provides **End to End incubation solutions** as we have easy access of MNIT faculties and student talent available for market testing and most of the machineries available under one roof for the Incubatees.
- Patent facility
- Faculty mentor for technical support
- Cabins for all startups in building
- Registration for co-working space for developing ideas



5.6 राजभाषा समिति

राजभाषा कार्यान्वयन समिति की सत्र 2016-2017 की प्रमुख उपलब्धियाँ

## संस्थान में वर्ष 2016–17 के लिए निम्नानुसार राजभाषा समिति का गठन किया गया :--

1.	श्री अशोक अग्रवाल, सह–आचार्य, वैद्युत अभियांत्रिकी विभाग	_	संयोजक
2.	श्री विपिन कुमार जैन, सह–आचार्य, वैद्युत अभियांत्रिकी विभाग	_	सह—संयोजक
3.	डॉ. राजकुमार जोशी, सहायक आचार्य, रसायनशास्त्र विभाग	_	सह–संयोजक
4.	डॉ. राजकुमार व्यास, सह–आचार्य, रसायन अभियान्त्रिकी विभाग	_	सदस्य
5.	डॉ. ज्योति जोशी, सह–आचार्य, रसायनशास्त्र विभाग	_	सदस्य
6.	डॉ. राजेन्द्र कुमार दुचानिया, सहायक–आचार्य, धातुकि एवं पदार्थ अभि.	_	सदस्य
7.	श्री दीप सिंह, सहायक पुस्तकालयाध्यक्ष	_	सदस्य
8.	डॉ. सुमन राठौड़, सहायक कुल सचिव	_	सदस्य
9.	श्री राजकुमार दुबे, सहायक कुल सचिव	_	सदस्य
10.	सुश्री किरण राठौड़, अधीक्षक	_	सदस्य
11.	श्री अंशु सक्सैना, सहायक (एसजी–प्रथम)	_	सदस्य
12.	श्री विजय भट्ट, कनिष्ठ सहायक	_	सदस्य
13.	श्री जय नारायण, उप कुलसचिव (प्रशासन एवं सीोपना)	_	सदस्य–सचिव

उक्त राजभाषा समिति की बैठकें भारत सरकार के गृह विभाग के तहत राजभाषा के नियमों के अनुरूप नियमित अन्तराल में समय—समय पर आयोजित होती रही हैं।

## राजभाषा प्रकोष्ठ ने इस वर्ष निम्नलिखित गतिविधियों का आयोजन किया

(क) राजभाषा समिति द्वारा आयोजन संगोष्ठी/सम्मेलन/कार्यशाला –

Ø-	uke	in	lEeşyu@lak8bh@	LFkku	fr fFk
la			dk, Zkkyk dk uke		
1.	राजभाशा समिति	—	हिन्दी पखवाड़ा उद्घाटन	मा.रा.प्रौ.सं.	सितम्बर 14,
			समारोह	जयपुर	2016
2.	सुश्री किरण राठौड़	संयोजक	हिन्दी आशु–भाषण	मा.रा.प्रौ.सं.	सितम्बर 14,
	श्री विजय भट्ट	सह–संयोजक	प्रतियोगिता	जयपुर	2016
3.	श्री अशोक अग्रवाल	संयोजक		मा.रा.प्रौ.सं.	सितम्बर 15,
З.	त्रा जरापि जप्रपाल	त्तपाणक	तकनीकी विषयों पर हिन्दी		
	श्री वी.के. जैन	सह—संयोजक	भाषण प्रतियोगिता	जयपुर	2016



Ø- Ia	uke	in	lEesyu@laakKBh@ dk,Zkkyk.dk.uke	LFku	fr fFk
4.	डॉ. आर.के. व्यास डॉ. आर.के. दुचानिया	संयोजक सह—संयोजक	हिन्दी वाद–विवाद प्रतियोगिता	मा.रा.प्रौ.सं. जयपुर	सितम्बर 16, 2016
5.	डॉ. सुमन राठौड़ श्री अंशु सक्सैना	संयोजक सह–संयोजक	हिन्दी प्रश्नोत्तरी (लिखित)	मा.रा.प्रौ.सं. जयपुर	सितम्बर 19, 2016
6.	सुश्री किरण राठौड़ श्री राजकुमार दुबे	संयोजक सह–संयोजक	एकाभिनय	मा.रा.प्रौ.सं. जयपुर	सितम्बर 19, 2016
7.	श्री दीप सिंह श्री राजकुमार दुबे	संयोजक सह–संयोजक	हिन्दी काव्य–पाठ प्रतियोगिता	मा.रा.प्रौ.स. जयपुर	सितम्बर 20, 2016
8.	डॉः ज्योति जोशी श्री राजकुमार जोशी	संयोजक सह–संयोजक	हिन्दी प्रश्नोत्तरी (लिखित)	मा.रा.प्रौ.सं. जयपुर	सितम्बर 21, 2016
9.	श्री अर्षोक अग्रवाल श्री वी.के. जैन	संयोजक सह–संयोजक	तकनीकी विषयों पर हिन्दी निबन्ध लेखन प्रतियोगिता	मा.रा.प्रौ.सं. जयपुर	सितम्बर 22, 2016
10.	श्री दीप सिंह	संयोजक	हिन्दी पुस्तकों की प्रदर्शनी	मा.रा.प्रौ.सं. जयपुर	सितम्बर 14 से 23, 2016 तक प्रतिदिन
11.	राजभाषा समिति	_	हिन्दी पखवाड़ा समापन समारोह एवं पुरस्कार वितरण कार्यक्रम	मा.रा.प्रौ.सं. जयपुर	सितम्बर 23, 2016



(ख) राजभाषा समिति द्वारा आयोजित विशिष्ठ व्याख्यान/अतिथि व्याख्यान/परिचर्चा-

Ø-l a	uke	lkn , oal Ec) r k	vfrfFkQk[;kudkfo"k	fnuka
1.	श्री राकेश वर्मा	सदस्य—सचिव, सुशासन प्रकोष्ठ एवं पूर्व अतिरिक्त मुख्य सचिव, राजस्थान सरकार, जयपुर।	हिन्दी पखवाड़ा उद्घाटन समारोह में व्याख्यान	सितम्बर 14, 2016
2.	डॉ. रश्मि अग्रवाल	ख्यातनाम लेखिका, सम्पादक एवं पत्रकार	डॉ. अब्दुल कलाम के व्यक्तित्व पर उद्बोधन	सितम्बर 14, 2016
3.	श्री ओम थानवी	प्रसिद्ध पत्रकार, लेखक एवं समालोचक	हिन्दी पखवाड़ा समापन समारोह में व्याख्यान	सितम्बर 23, 2016
4.	श्रीमती अस्मिता शर्मा	ख्यातनाम टीवी एवं सिनेमा अदाकारा	''स्वच्छ भारत मिशन एवं नारी सशक्तीकरण'' पर विद्यार्थी—संकाय संयुक्त परिचर्चा	जनवरी 31, 2017

(ग) लब्ध प्रतिष्ठित विशेषज्ञों का संस्थान में आगमन :

Ø-l a	uke	lkn, oal Ec)rk	mns;	fnukal
1.	श्री राकेश वर्मा	सदस्य–सचिव, सुशासन प्रकोष्ठ एवं पूर्व अतिरिक्त मुख्य सचिव, राजस्थान सरकार, जयपुर।	मुख्य अतिथि, हिन्दी पखवाड़ा उद्घाटन समारोह	सितम्बर 14, 2016
2.	श्रीमती अमृता मौर्य	ख्यातनाम लेखिका, सम्पादक एवं पत्रकार	विशिष्ठ अतिथि, हिन्दी पखवाड़ा उद्घाटन समारोह	सितम्बर 14, 2016
3.	डॉ. रश्मि अग्रवाल	ख्यातनाम लेखिका, सम्पादक एवं पत्रकार	विशिष्ठ अतिथि, हिन्दी पखवाड़ा उद्घाटन समारोह	सितम्बर 14, 2016
4.	श्री ओम थानवी	प्रसिद्ध पत्रकार, लेखक एवं समालोचक	मुख्य अतिथि, हिन्दी पखवाड़ा समापन समारोह एवं पुरस्कार वितरण कार्यक्रम	सितम्बर 23, 2016
5.	डॉ. अंजू ढढ्ढा मिश्र	प्रसिद्ध कवियित्री एवं लेखिका	सारस्वत अतिथि, हिन्दी पखवाड़ा समापन समारोह एवं पुरस्कार वितरण कार्यक्रम	सितम्बर 23, 2016
6.	श्री दुर्गा प्रसाद अग्रवाल	ख्यातनाम लेखक, सम्पादक एवं हिन्दी के आचार्य	विशिष्ठ अतिथि, हिन्दी पखवाड़ा समापन समारोह एवं पुरस्कार वितरण कार्यक्रम	सितम्बर 23, 2016
7.	श्रीमती अस्मिता शर्मा	ख्यातनाम टीवी एवं सिनेमा अदाकारा	''स्वच्छ भारत मिशन एवं नारी सशक्तीकरण'' पर विद्यार्थी—संकाय संयुक्त परिचर्चा	जनवरी 31, 2017





#### (ध) अन्य उपलब्धियाँ :

- राजभाषा कार्यान्वयन समिति के तत्वावधान में हिन्दी की त्रैमासिक पत्रिका ''मालवीय प्रकाश'' के सत्र 2016–17 के अंको का प्रकाशन करवाया गया।
- राजभाषा कार्यान्वयन समिति के द्वारा संस्थान के सत्र 2016–17 का वार्षिक प्रतिवेदन एवं वार्षिक लेखों का अंग्रेजी से हिन्दी अनुवाद किया गया एवं उसका हिन्दी में टंकण व प्रूफरीडिंग कर प्रकाशनार्थ उपलब्ध करवाया गया।
- 3. आगामी दिनांक 16–17–18 मई, 2017 को बोर्ट ब्लेयर में आयोजित होने जा रहे 32वें हिन्दी सम्मेलन एवं कार्यशाला के लिए संस्थान के निम्नलिखित छः अधिकारियों / कर्मचारियों को नामांकित किया गया :–
  - 1. डॉ. ज्योति जोशी, सह–आचार्य, रसायनशास्त्र विभाग।
  - 2. डॉ. राजेन्द्र दुचानिया, सहायक आचार्य, धातुकी एवं पदार्थ अभियान्त्रिकी विभाग।
  - 3. श्री दीप सिंह, सहायक पुस्तकालयाध्यक्ष, केन्द्रीय पुस्तकालय।
  - श्री मधुसूदन शर्मा, अधीक्षक, निदेशक कार्यालय।
  - 5. श्री विजय भट्ट, सदस्य, कनिष्ठ सहायक, स्थापना अनुभाग।
  - श्री लक्ष्मण सिंह, कनिष्ठ सहायक, स्थापना अनुभाग।

#### 5.7 Internal Complaint Committee (Women's Cell)

As per the Act of Parliament 2013, on the Sexual Harassment of Women at Workplace chapter II following internal complaints committee (Women's Cell) is constituted:

S.	Member	Constitution
No.		
1	Dr. Rashmi Jain,	
	Professor, Mathematics	A Presiding Officer who shall be a woman employed
	Deptt.	at senior level at workplace amongst the employees;
	MNIT Jaipur	
2	Prof. M.C. Govil	Not less than two members from amongst employees preferably committed to the cause of women or who
3	Dr. Nupur Tandon	have experience in social work or have legal
4	Dr. Kanupriya Sachdev	knowledge;
5	Dr. Amit Singh	
6	Dr. Suman Rathore	
7	Prof. Pawan Surana,	One member from amongst non-government
	Member NGO, RUWA,	organizations or association committed to the cause of women or a person familiar with the issues relating
	Jaipur	to sexual harassment;

The Registrar assists the Committee in discharging its function.



## 6. THE COUNCIL, BOG AND OTHER COMMITTEES

#### 6.1 BOARD OF GOVERNORS

S.	Nomination	Name and Designation of nominated	Serve as
No.	under	persons	
1.	Section 11	Ms. Chitra Ramkrishna,	Chairperson
	Clause (a)	MD & CEO, National Stock Exchange of	
		India Ltd.	
2.	(b)	Prof. Udaykumar R Yaragatti, Director,	Ex-Officio Member
		MNIT, Jaipur	
3.	(c)	The Joint Secretary (Technical Education)	Member
		Govt. of India, MHRD, Dept. of Higher	
		Education	
		Shastri Bhawan New Delhi	
4.	(c)	The Financial Advisor	Member
		Government of India, MHRD, Dept of	
		Higher Education, New Delhi	
5.	(d)	Prof. Ravi Juniwal,	Member
		Apex Institute of Management,	
		Jaipur	
6.	(d)	Member to be nominated by State Govt.	Member
7.	(e)	Dr. Shashi Bala Singh, Director General,	Member
		DIPAS, DRDO (Life Sciences), Delhi	
8.	(e)	Ms. Vidita Vaidya, Bhat nagar Awart,	Member
		TIFR, Mumbai	
9.	(f)	Prof. Khaleequr Rehman Niazi,	Member
		Department of Electrical Engineering,	
		MNIT Jaipur	
10.	(g)	Dr. Urmila Brighu, Mem	
		Associate Professor, Department of	
		Electrical Engineering, MNIT Jaipur	
11.	Section 18	Dr. A. K. Solanki, Secretary	
	Clause (2)	Registrar, MNIT, Jaipur	1.1



## 6.2 FINANCE COMMITTEE

S. No.	Name and Designation of nominated persons	Serve as
1	Ms. Chitra Ramkrishna,	Chairman
	MD & CEO, National Stock Exchange of India Ltd.	
2	Prof. Udaykumar R Yaragatti, Director, MNIT, Jaipur	Ex-Officio Member
3	The Joint Secretary (Technical Education)	Member
	Govt. of India, MHRD, Dept. of Higher Education	
	Shastri Bhawan New Delhi	
	The Financial Advisor	Member
	Government of India, MHRD, Dept of Higher Education,	
	New Delhi	
	Prof. Ravi Juniwal,	Member
	Apex Institute of Management, Jaipur	
4	Dr. Shashi Bala Singh, Director General, DIPAS, DRDO (Life	Member
	Sciences), Delhi	
5	Dr. A. K. Solanki,	Ex-officio Member Secretary
	Registrar, MNIT, Jaipur	

**MNIT JAIPUR** 

#### 6.3 BUILDING & WORKS COMMITTEE

S. No.	Name and Designation of nominated persons	Serve as
1	Prof. Udaykumar Yaragatti,	Director, Ex-Officio
	Chairman, BWC & Director MNIT Jaipur, JLN Marg,, Jaipur – 302017	Chairman
2	Sh. Sanjeev K. Sharma,	Nominee, MHRD
	Director (NITs), Department of Higher Education	
	Ministry of Human Resource Development	
	Government of India	
	Shastri Bhawan, New Delhi – 110 001	
3	Sh. Manish Jindal,	Nominee, BOG
	Registrar,	
	PEC University of Technology, Sector – 12,	
	Chandigarh – 160012	
4	Shri Krishna Maheswari,	Expert from Civil
	Superintending Engineer (Civil, Planning)	
	CPWD Circle, Sector-10, Vidhyadhar Nagar, Jaipur	
5	Sh. Arjun Singh,	Expert from Electrical
	Managing Director, JVVNL Jaipur	
6	Prof. A. K. Vyas,	Dean, P&D
	Dean (P&D),	
	MNIT Jaipur, JLN Marg, Jaipur – 302017	
7	Dr. A. K. Solanki,	Member Secretary
	Registrar	
	MNIT Jaipur, JLN Marg, Jaipur – 302017	



#### 7. CONCESSIONS FOR SCs, STs, HANDICAPPED STUDENTS

#### 7.1 CONCESSIONS PROVIDED FOR STUDENTS

#### **Admission Policy**

According to the admission rules laid down by the Govt. of India, the following reservations are made for admission to undergraduate courses at the MNIT, Jaipur. The same applies for Post Graduate courses

(i)	OBC candidates		27%
(ii)	Scheduled Caste	candidates	15%
(iii)	Scheduled Tribe	candidates	7.5%
(iv)	Physically Handica	pped Candidates	3 %

#### **Library Facilities**

There is a separate Book Bank for SC/ST students. The number of books issued to each SC/ST student is 11 in comparison to 6 for General students.

#### **Scholarships**

Various state governments and Board for Social Welfare provide scholarships to SC/ST students.

#### 7.2 CONCESSIONS PROVIDED FOR STAFF

The reservation policy and other benefits as directed by Government of India from time to time are implemented.



#### 8. FINANCIAL STATUS

#### 8.1 ANALYSIS OF PLAN AND NON PLAN AND NON PLAN GRANT

During the year 2016-17 the institute received grant under Plan and Non Plan (entirely from Govt of India) as given below:-

				(₹ in Lakhs)	
Plan	Grant				
(i)	Non recurring (Building ,Equipment, etc)	:		8500.00	
(ii)	Project Grant (R & D)	:		960.49	
(iii)	Other Plan Activities	:		19.96	
(iv)	TEQIP	:		25.00	
	TOTAL ( Plan Grant)		•	9505.45	
Non	Plan Grant				
(i)	UG/PG Courses	:		5030.00	
	TOTAL ( Non Plan Grant)	•		5030.00	
GRA	NT TOTAL ( PLAN & NON PLAN GRAM	NT)	•	14535.45	

#### 8.2 SOURCE OF FUNDS

- (i) Grant in Aid from Govt. of India
- (ii) Tuition Fees from Students
- (iii) Rent
- (iv) Interest
- (v) Other Misc. Income



# 8.3 EXPENDITURE POSITION FOR THE LAST THREE YEARS (PLAN, NON PLAN & TEQIP)

(₹ in Lakhs)

Years	Expenditure
2014-15	16834.33
2015-16	19388.92
2016-17	16462.39



#### 9. CENTRAL FACILITIES AND SERVICES

#### 9.1.1 COMPUTER CENTRE, MNIT JAIPUR

The new Computer Centre, established on the first floor of Prabha Bhawan, was inaugurated by Prof. S.V. Raghavan on 19th October 2014. Since its establishment, it is operating 24\*7\*365 and has become the most sought after place for the students.

The Computer Centre, a centralized facility of the Institute, caters to the computing needs of Students, Faculty, Staff and Researchers of all the academic departments, centres and sections of the Institute through its state of the art infrastructure. The IT & HR infrastructure and activities at the Computer Centre can be viewed at http://mnit.ac.in/dept\_ccc/index.php.

The Centre is equipped with ten computer labs having more than 500 Desktop Computers and Graphics Workstations; Data Centre having private cloud; advanced softwares at central location accessible to all in the campus and Industry compatible Programming team capable of developing Database Applications in a professional manner. The Centre also manages the ERP of the Institute.

Web based applications developed, deployed and maintained by Computer Centre.

The MNIT website as well as the NIT Council website are developed and maintained by Central Computer Centre. The new MNIT website includes many features like dynamic faculty profiles, user friendly multi tab interface, scroll free GUI and quick search etc.

The NIT Council website provides an interface for all thirty NITs so that users can access information about all the NITs from a single platform.

Other applications developed and maintained by Computer Centre are:-

- (a) Online Application for admissions in Ph.D., M.Tech., M.Plan. and MBA.
- (b) Online Application for recruitment of Non-Teaching staff.
- (c) Online Application for recruitment of Teaching staff.
- (d) Institute Intranet Portal
- (e) Online GPF account management system for MNIT employees
- (f) Portal for Alumni Day registration
- (g) Portal for Convocation registration
- (h) Various Conferences and Seminar websites.
- (i) MRC (Material Research Centre) application
- (j) SMP (Student Mentorship program)
- (k) Grievance Portal (under development)



#### **Stepping towards becoming Financially Self-sufficient**

To become financially self sufficient, Computer Centre has taken up several consultancy projects for resource generation. Proving its capabilities to develop industry level web applications, the centre has taken up a project to develop MIS for complete automation of the academic environment of Rajasthan University of Health Sciences, the largest university of rajasthan in health sector.

#### MNIT Data Centre Infrastructure

**Emerson Smart Row Rack solution:** A user friendly, fully integrated row-based data Centre Racks at Data Centre houses Blade Servers and Storages. The Rack is having redundant precision cooling, Power management, Remote monitoring and control system, Integrated fire detection and suppression system, Biometric access control, Intelligent Power distribution System, Mail and SMS notification System, Ultrasonic rat/rodent repellent Solutions.

#### **Computing Resources at Data Centre:**

 CISCO UCS:- Three UCS 5108 Chassis and 12 CISCO B200 M4 Servers with following Configuration

2 x 18 Core Intel® Xeon® Processor (E5-2699 v3), 512GB RAM, Intel® C610 chipset, 4 x10Gb Ethernet NIC ports

- 2 X CISCO UCS 6248UP Fabric Interconnect
- HP Blade Server:- There are total sixteen HP ProLiant BL460c G7 blades, with following Configuration.

Intel® Xenon® 5600 series 6/6 Core with HT processors, Intel® 5520 Chipset, 64 GB RAM in four Blades used for cloud.

- IBM system x3650 Rack server used for DNS
- One HP ProLiant DL380 Gen9 Server for VCR Infrastructure.
- VMware Cloud Suite 6: Twelve socket license installed on CISCO UCS blades and HP Blades for MNIT Private Cloud Services.

#### EMC2 Storages and Backup Devices:

»	VNX-5200 SAN used for MNIT Private Cloud	: 20 TB
»	VNX-5300 SAN used for MNIT Private Cloud	: 10 TB
»	ISILON S200 NAS for data storages by the Deptts	: 22 TB
»	AVAMAR M1200 Gen4S backup Appliance	: 3.9 TB

#### **HP Storages Devices:**

- » HP Storage Works X1000 G2 (6TB) used for Auto CAD Licensing Sever & Auto CAD Data Storage.
- » 10 TB SAN Storage: HP MSA P2000 Modular Smart Array Systems with RAID 5, and Smart Array P410i Controller.





#### MNIT Data Centre Usage

MNIT data Centre is housing MNIT Private Cloud using VMware V Cloud Suite installed on Blade Server and core network switches with 2 Gbps lease line for internet connectivity.

MNIT Private Cloud is an IaaS service, which allows administrator to create Virtual data centers with virtual servers, machines and networks, expanding or reducing as their needs require. With this Private Cloud, MNIT users get both computational resources and network License resources for their own exclusive use.

MNIT private cloud is running various applications/services used by students, faculty and staff and approximately two hundred Virtual Machines have been allotted for IT Services and computational needs of researchers from various departments and centres.

#### **Highlights of Data Centre**

- » Centralized provisioning of IT resources for MNIT
- » Single interface for administrator for entire IT infrastructure
- » Work load elasticity
- » Storage of lectures, assignments, notes etc.
- » Provide Data Storage to departments
- » Provide High End Computational Resources for Research purpose

#### Various Hosting and other Services:

- » MNIT Website http://mnit.ac.in
- » NIT Council Website www.nitcouncil.org.in
- » Intranet Web Application Hosting
- » Student-Student Mentorship Program Portal http://smp.mnit.ac.in
- » Portal for MRC http://online.mnit.ac.in/mrc/
- » Teaching and Non teaching recruitment application.
- » DNS Server for creating Sub domains
- » LDAPAuthentication Server for 6000 users
- » Library Management software KOHA and RFID
- » DSpace Institutional Digital Repository.

#### Various license Servers

- » AutoCAD 2016 Licensing Server for 125 users
- » MATLAB R2015b and Simulink License Server for 100 Users
- » Hyperworks 13.0 Licensing Server
- » LMS Imazine.Lab License Server (Integrated simulation platform for multi-domain Mechatronic systems simulation)
- » Autodesk\_Inventor, 3ds\_Max\_Design, C3D, Map, Maya, MB, and Revit,
- » JMat-Pro 8 License Server. (Comprehensive Tool for Metallurgy).
- » ERDAS IMAGINE 2014 (Geographic Imaging solutions) and Hexagon Geo Media Desktop 2015



- » SimaPro 8 License server for 20 users
- » ESET Anti virus server for 500 user license.
- » Visual MODFLOW License server(For ground water simulations)
- » IBM SPSS Licensing Server for 10 users (predictive analytics software)
- » aspenONE License Server for 150 users
- » ANSYS Licenses Server
- » Embedded Software License Server.

#### **Private Cloud Services**

- » VMware vCenter Server.
- » IaaS Server & SQL Database Server.
- » VMware vCenter Operations Manager.
- » EMC Avamar Virtual Machine Combined Proxy.
- » MNIT Domain Server for Cloud Infra.
- » VMware Identity Appliance.
- » VMware vCloud Automation Center Appliance.
- » DNS Server for cloud infra.
- » DHCP Server for cloud infra
- » NTP Server

#### Laboratory Resources:-

The Central Computer Centre has more than 500 high end PCs including 120 graphics work stations placed in TEN fully air conditioned computer laboratories with all modern teaching aids, which opens 24\*7\*365. The labs are equipped with following software:-

#### 1. AutoCAD Complete Suite 2016

Computer-aided design (CAD) includes creation, modification, analysis, or optimization of design using computer system. Computer-aided design is used in many fields. Its use in designing electronic systems is known as electronic design automation, or EDA. In mechanical design it is known as mechanical design automation (MDA) or computer-aided drafting (CAD), which includes the process of creating a technical drawing with the use of computer software.

Product	Module/ component	License	Department
AutoCAD (Building	Fusion 360		For all UG and PG
Design Suite Ultimate	Inventor Professional	3000	Students
2017)	Revit		
	AutoCAD		
	3dsmax		
	Maya		

AutoCAD Complete Suite 2016 Educational version Licences





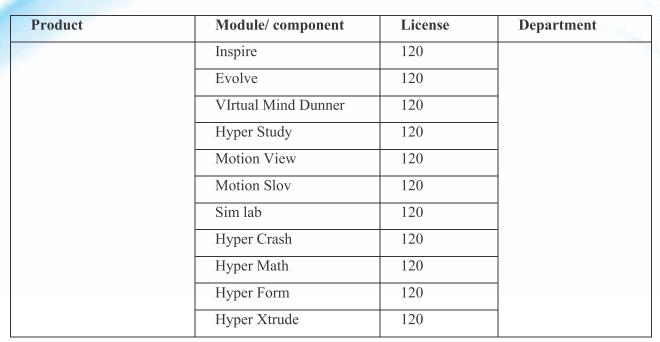
Product	Module/ component	License	Department
Building Design Suite	Included products		For all UG and PG
Ultimate 2017	Inventor Professional		Students
	AutoCAD		
	AutoCAD Mechanical		
	AutoCAD Raster Design	3000	
	Recap		
	Vault Basic		
	3ds Max Design		
	Navisworks Manage		
	AutoCAD Electrical		
Building Design Suite	Included products		For all UG and PG
Ultimate 2017	AutoCAD		Students
	AutoCAD Architecture		
	AutoCAD MEP		
	AutoCAD Structural	3000	
	Detailing		
	Showcase		
	AutoCAD Raster Design		
	Recap		
	3ds Max		
	Navisworks Manage		

\* License Type: Network

#### 2. Hyper Works Version 13.0

Hyper Works 13.0 provides the most comprehensive, open-architecture, Multiphysics CAE platform to enhance product performance, design lightweight components, and get products to the market faster and access to new technologies.

Product	Module/ component	License	Department
Hyper Works version	Optistruct	120	For all UG and PG
13.0	Radioss	120	Students
	Acu solve	120	
	Hypermesh	120	-
	Hyper view	120	
	Hyper graph	120	



\* License Type: Network

#### 3. ERDAS IMAGINE 2015

**ERDAS IMAGINE** is a remote sensing application with raster graphics editor abilities designed by ERDAS for geospatial applications. The latest version is 2015. ERDAS IMAGINE is aimed primarily at geospatial raster data processing and allows the user to prepare, display and enhance digital images for mapping use in geographic information system (GIS) or in computer-aided design (CAD) software.

Product	Module/ component	License	Department
ERDAS	ERDAS Foundation	15	For all UG and
IMAGINE 2015	ERDAS IMAGINE	15	PG Students
	ERDAS IMAGINE 2015 v15.1	15	
	Intergraph Licensing 2015	15	
	ERDAS IMAGINE 2015 Geodatabase Support	15	
	Condor for Intergraph 2015	15	
	ERDAS IMAGINE Remote Sensing Example	15	
	Data		

\* License Type: Network



#### 4. Bentley Software:-

	Module/ component	License	Department
Product			
Bentley	STAAD Pro Adv.	10(Subscription till 31 March	For all UG and
SELECT	Analysis	2016)	PG Students
	STAAD offshore	10	
	STAAD beava	10	
	STAAD(X).Tower	10	
	RAM Steel	10	
	RAM Frame	10	
	RAM Foundation	10	
	RAM Concrete	10	
	RAM Elements	10	
	RAM Connection	10	

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\* License Type: Network

#### 5. Adobe Master Collection CS 6

Adobe® Creative Suite® 6 Master Collection software. Adobe Creative Suite (CS) was a series of software suites of graphic design, video editing, and web development applications

Product	Module/ component License			ent
Adobe Master	What's inside Master Collection	10*	For all	UG
Collection CS	Collection CS Photoshop Extended CS6 Photoshop CS6 Extended		and	PG
6	6 Illustrator CS6 Illustrator CS6		Students	
	InDesign CS6 InDesign® CS6		-	
Acrobat Pro DC Acrobat® X Pro				
	Flash Professional CS6 Flash® Professional CS6		-	
	Flash Builder Flash Builder® 4.6 Premium Edition		-	
	Dreamweaver CS6 Dreamweaver® CS6			
	Fireworks CS6 Fireworks® CS6         Adobe Premiere Pro CS6 Adobe Premiere® Pro CS6			
			1	
	After Effects CS6 After Effects® CS6			



Product	Module/ component	License	Department
	Adobe Audition CS6 Adobe Audition® CS6		
	SpeedGrade CS6 SpeedGrade™ CS6		-
Adobe Prelude CS6 Prelude <sup>™</sup> CS6			-
	Encore CS6 Encore® CS6		-
	Bridge CS6 Bridge CS6		-
	Media Encoder CS6 Media Encoder CS6		-

\* License Type: Network

#### 6. JMat Pro-v8

JMatPro® is a simulation software which calculates a wide range of materials properties for alloys and is particularly aimed at multi-components alloys used in industrial practice. JMatPro is a powerful tool for modeling materials properties and behaviors for complex commercial alloys. Using JMatPro you can make calculations for: Stable and metastable phase equilibria, Solidification behavior and properties, Mechanical properties, Thermo-physical and physical properties, Phase transformations, and Chemical properties.

Product	License	Department
JMat Pro-v8	10 (Ten)	Metrology and Material Engineering

\* License Type: Network

#### 7. SimaPro 804:

SimaPro provides us a professional tool to collect, analyze and monitor the sustainability performance of products and services.SimaPro comes fully integrated with various databases and impact assessments, and is used for a variety of Life Cycle Assessment Applications.

Product	License	Department
SimaPro 8.0	20	Department of Environment and Energy Studies

\* License Type: Network





#### 8. MATLAB R2014a & Simulink Software:-

MATLAB<sup>®</sup>(MATrix LABoratory) is a high-level language and interactive environment for numerical computation, visualization, and programming. Using MATLAB, you can analyze data, develop algorithms, and create models and applications. The language, tools, and built-in math functions enable you to explore multiple approaches and reach a solution faster than with spreadsheets or traditional programming languages, such as C/C++ or Java<sup>®</sup>. You can use MATLAB for a range of applications, including signal processing and communications, image and video processing, control systems, test and measurement, computational finance, and computational biology. More than a million engineers and scientists in industry and academia use MATLAB, MATLAB is widely used in academic and research institutions as well as industrial enterprises.MNIT has purchased Simulink with 50 Licenses &MATLAB R2014a with 100 licenses and following toolboxes.

Bioinformatics Toolbox	Optimization Toolbox	MATLAB Builder JA
Communications System Toolbox	Parallel Computing Toolbox	MATLAB Builder NE
DSP System Toolbox	Real-Time Windows Target	MATLAB Coder
Aerospace Blockset	SimDriveline	MATLAB Compiler
Aerospace Toolbox	Partial Differential Toolbox	MATLAB Report Generator
Neural Network Toolbox	Phased Array System Toolbox	Mapping Toolbox
Computer Vision System Toolbox	RF Toolbox	Model Predictive Control Toolbox
Control System Toolbox	Robust Control Toolbox	Model-Based Calibration Toolbox
Curve Fitting Toolbox	Signal Processing Toolbox	Spreadsheet Link EX
Data Acquisition Toolbox	SimBiology	Stateflow
Database Toolbox	SimElectronics	Statistics Toolbox
Datafeed Toolbox	SimEvents	Symbolic Math Toolbox
Econometrics Toolbox	SimHydraulics	System Identification Toobox
Embedded Coder	SimMechanics	SystemTest
Filter Design HDL Coder	SimPowerSystems	Trading Toolbox
Financial Instruments Toolbox	SimRF	Vehicle Network Toolbox
Financial Toolbox	Simscape	Wavelet Toolbox
Fixed-Point Designer	Simulink 3D Animation	OPC Toolbox
Fuzzy Logic Toolbox	Simulink Coder	Image Processing Toolbox
Gauges Blockset	Simulink Control Design	Instrument Control Toolbox
Global Optimization Toolbox	Simulink Design Optimization	LTE System Toolbox
HDL Coder	Simulink Design Verifier	Simulink Report Generator
HDL Verifier	Simulink PLC Coder	Simulink Verification & Validation
Image Acquisition Toolbox	Simulink Real-Time	Simulink <sup>®</sup> Code Inspector <sup>™</sup>



#### 9. Visual MODFLOW:-

This is Hydrogeology software. This is used for conceptual model of the groundwater system, prior to the simulation. The geological formations, property model, and boundary conditions are all designed outside the model grid or mesh. This allows the flexibility to adjust your interpretation of the groundwater system before applying a discretization method and converting to a numerical model.

Product	License	Department
Visual MOD Flow	5	Department of Civil Engineering

\* License Type: Network

#### 10. The Language Laboratory is equipped with the following latest softwares:

- » Tense Buster
- » Study Skills Success
- » Clear Pronunciation
- » Clear Pronunciation 2
- » Clarity English Success
- » Business Writing
- » It's Your Job
- » Active Reading
- » Issues in English 2- International
- » Author Plus
- » Result Manager

#### 11. ArcGIS

ArcGIS provides contextual tools for mapping and spatial reasoning so you can explore data and share location-based insights. ArcGIS creates deeper understanding, allowing you to quickly see where things are happening and how information is connected.

Product	License	Department			
ArcGIS	9	Department of Architecture	Civil	Engineering	and





# 9.1.2 NKN (NATIONAL KNOWLEDGE NETWORK) AND CWN (CAMPUS WIDE NETWORKING)

NKN (NATIONAL KNOWLEDGE NETWORK) - Virtual Class Room and Video Conferencing facility AND CWN (CAMPUS WIDE NETWORKING)

- MNIT Jaipur has state of the art VC Infrastructure by establishing its own Centralised Control Centre for Videoconferencing Services including MCU upto 160 ports, Recording & streaming server, video firewall, video gateway, conference management & monitoring systems etc. It removes the dependence of MNIT over NIC for VC Infra and also allows hosting multiple VC events simultaneously and parallely.
- Three new Virtual classrooms have been recently developed with state of the art facilities & well equipped with latest technological upgrades available in fields of audio/video & videoconferencing technologies.
- One more additional NKN room (developed under NKN VCR pilot project in 2011) whose civil and technical renovation was going on, has almost been completed which will be functional during next ICT session during winter vacation.
- MNIT Jaipur is offering regular courses via distance teaching to IIT Jodhpur (Two courses for ECE & CSE) since last two academic years. IIT Kota is also benefitted from NKN virtual classrooms using it as a platform for online presentations of abroad faculty interviews & research scholar presentations. MNIT is also utilizing the NKN VCRs by actively involving in MHRD initiatives for knowledge & resource sharing like GIAN, ICT Academia etc.
- Apart from managing state of the art VC infra facilities, Mnit VC infra team has successfully conducted Gian and ICT academy courses (more than 15) with full fledged features of recording, streaming, archive & over NKN with multiple academies including IIT & NIT community. Many courses are still running while around 10 courses are still in pipeline whose slots for VC infra are already booked in advance.
- Many of the Faculty Development Programmes under Global Initiative for Academic Networks (GIAN) and Electronics and ICT (EICT) Academy are made available for various institutions and individuals over NKN through respective portals.
- Regular PRSG meets are held using VC Infra. MNIT is also actively participating in MHRD hosted conferences like Unnat Bharat Abhiyan, TBI meets etc.
- Faculty members are being encouraged to make use of the high speed broadband network access for generation and dissemination of knowledge in various areas, live consultations, data sharing and resource sharing.
- Students are encouraged and facilitated to use NKN to access elective / specialized programmes in other NITs in the network.
- The address of Hon'ble Visitor to faculty and students of MNIT Jaipur is facilitated at the pleasure of Hon'ble Visitor
- Collaborative M. Tech programmes over NKN are welcome.
- Collaborations with International Institutes and Universities on research, knowledge sharing and student exchange programmes are in place.



#### 9.1.3 LANGUAGE LAB:

There is one Language Lab in the Computer Centre. This lab has 20 computers with language learning softwares Clear Pronounciation, Study Skills Success, Clarity English Success, Business Writing, Active Reading and Tense Buster, etc.

#### 9.2 WORKSHOPS

**Central workshop** is a central facility with state of the art machines to meet the following objectives:

- 1. To impart training to the students of all branches of 1st Year B. Tech in various shops.
- 2. To impart training on latest machine tools to B. Tech. (Mechanical Engineering) and M. Tech. (MSE) Students.
- 3. To provide the workshop facilities for fabrication of minor and major projects to the students of all branches.
- 4. Central workshop has state of the art machine tools and equipment required for carrying out research work at M. Tech and Ph. D. level in all the departments and sections of the institute.
- 5. To develop a project lab which will have all basic tools required for carrying out projects of all the Departments of the institute. This project lab will open for 24 hrs.
- 6. To ensure safe working environment for staff and students.
- 7. Upkeep of institute furniture and other infrastructure.
- 8. To provide consultancy to industries/ organizations thereby improving Institute-Industry relationship.
- 9. Along with the above mentioned primary objectives the workshop would also be used for community development activities such as organizing training programs for society and staff.

Project lab will be a central facility with state of the art machines to meet the following objectives:

- 1. To provide workshop facilities for fabrication of minor and major projects to the UG/PG students of all branches.
- 2. The project lab would have state of the art machine tools and equipments to facilitate the research work at M. Tech and Ph. D. level in all the departments and sections of the institute.
- 3. The project lab shall be hub of innovations and shall help in registering patents for the same.
- 4. The project lab shall be managed by students under the guidance of coordinator Project Lab.
- 5. It will also showcase its innovations through exhibitions twice a year. These exhibitions shall be organized in collaboration with Industries.
- 6. This project lab will be open 24 hrs.

#### 9.3 LIBRARY

#### **1** Total Floor Area : 15847 sq feet (space per student – about 7.5 sq feet)

The Central Library is located in the Centre of the Institute, where visitors can approach easily. It has 15847 sq.feet plinth area in two floors (Ground and First). It is well equipped with new and modern





furniture (make Godrej) including optimizers (stacks on tracks). The sitting area of the users is fully air conditioned under the CCTV Surveillance System and also having Smoke Alarm System. Each sitting area / hall is having different reading cubicles for the users. The Central Library was reintroduced with new name i.e. "learning Resource Centre" in April,2012.

#### 2 Library Automation and Computerization

Following recent developments have been taken place in the Central Library :-

- 2.1 Library Database on KOHA (Library Management Software)
- 2.2 RFID System for Smart Circulation with Gate Antenna
- 2.3 Smart Card Technology

# 3. Members a) Students b) Staff 4. Circulation of Books (approx) a) Main Library Counter b) Book Bank 5. No. of Visitors (on Membership basis) approx. (Faculty, Staff, Students and fee based members)

#### 6. Timings

08.00 A.M. to 10.00 P.M. (Monday to Friday)

09.00 A.M. to 06.00 P.M. (Saturday & Sunday)

#### 7. Holdings from 01/04/2016 to 31/03/2017

			Added	As on	With-	Available
		31/03/2016	During	01/04/2017	drawn	holdings
Library	Print Books	89249	294	89542	3352	*86190
	e-Books	3073	-	3073	-	3073
Back Volum	es	13580	-	13580	120	13460
BIS Codes		12498	-	12498	-	12498
Book Bank (	(Gen.)	51,645	25	51669	-	*51669
Book Bank (	(SC/ST)	19022	-	19022	-	*19022
CBIP Public	ations	531	-	-	-	531
CD ROMs Databases+ LRs		846	-	-	-	846
(on different Subjects)						
		1	7	OTAL HOLDING	<i>FS AVAILABLE</i>	1,87,289
	Back Volum BIS Codes Book Bank ( Book Bank ( CBIP Public CD ROMs I (on different	e-Books Back Volumes BIS Codes Book Bank (Gen.) Book Bank (SC/ST) CBIP Publications CD ROMs Databases+ LRs (on different Subjects)	e-Books3073Back Volumes13580BIS Codes12498Book Bank (Gen.)51,645Book Bank (SC/ST)19022CBIP Publications531CD ROMs Databases+ LRs846(on different Subjects)	e-Books 3073 - Back Volumes 13580 - BIS Codes 12498 - Book Bank (Gen.) 51,645 25 Book Bank (SC/ST) 19022 - CBIP Publications 531 - CD ROMs Databases+ LRs 846 - (on different Subjects) <i>T</i>	e-Books       3073       -       3073         Back Volumes       13580       -       13580         BIS Codes       12498       -       12498         Book Bank (Gen.)       51,645       25       51669         Book Bank (SC/ST)       19022       -       19022         CBIP Publications       531       -       -         CD ROMs Databases+ LRs       846       -       -         (on different Subjects)       Image: Construction of the second	e-Books       3073       -       3073       -         Back Volumes       13580       -       13580       120         BIS Codes       12498       -       12498       -         Book Bank (Gen.)       51,645       25       51669       -         Book Bank (SC/ST)       19022       -       19022       -         CBIP Publications       531       -       -       -         CD ROMs Databases+ LRs       846       -       -       -

10



**Total Numbers** 

1 Video Cassettes

- 1035
- 2 CDs & Floppies (Received with books & magazines) approx.1000

#### 9 Expenditure – (from 01/04/2016 to 31/03/2017)

#### 9.1 Printed Books etc.

S.No.	Heads	2016-2017 ( in Rs.)
1.	Library Plan	3,42,976
2.	Book & Periodicals	5,400.00
3.	Subscription of Print Journals	1,77,220.00
4.	Newspapers & Magazines	49,472.00
	Total	5,75,068.00

#### 9.2 Expenditure on Online Resources (Plan Budget)

(i)	Subscription of Online Journals & Databases	Rs. 1,15,61835.00
9.3	Other Expenditure	Rs. 65,838.00
(K0	OHA Software, DELNET)	
Pri	nt Journals:	
10.	1 Subscribed	86

10.2 Complementary Journals / Newsletters report etc. approx. 75

#### 11. Electronic/Online Resources & Databases:

S. No	e- Resources	URL		
Ι	e- Shodh Sindhu Consortium			
(Introd	(Introduced by MHRD, New Delhi through INFLIBNET)			
1.	ACM Digital Library	http://dl.acm.org/		
2.	ASCE Journals Online	http://ascelibrary.org/		
3.	ASME Journals Online	http://asmedigitalcollection.asme.org/		
4.	ASTM Standards + Digital Library	https://www.astm.org/DIGITAL_LIBRARY/index.html		
5.	Economic & Political Weekly	http://www.epw.in/frontpage?0=ip_login_no_cache%3D57d 83a8e82068ab8bf2817cfc32a0d62		
6.	<b>Emerald CFTI Collection (298 titles)</b>	http://www.emeraldinsight.com/		





S. No	e- Resources	URL
7.	Institute for Studies in Industrial	http://isid.org.in/home.html
	Development (ISID) Database	
8.	JGate Plus (JCCC)	https://jgateplus.com/search/
9.	JSTOR	http://www.jstor.org/
10.	Nature	https://www.nature.com/
11.	Oxford University Press	https://academic.oup.com/journals/
		http://apps.webofknowledge.com/WOS_GeneralSearch_inpu
12.	Web of Science Lease Access	t.do?product=WOS&search_mode=GeneralSearch&SID=2C
		tLDDEXwVgcO59kkZE&preferencesSaved=

Π	Online Journals subscribed by MNIT Jaipur					
1.	Taylor & Francis	www.tandf.com				
2.	SAGE Pub., New Delhi	http://online.sagepub.com http://jax.sagepub.com/				
3.	Science Direct(ELSEVIER PUBLISHERS)	http://www.sciencedirect.com/				
4.	IEL Online Journals	http://ieeexplore.ieee.org				
III	Bibliographic Databases					
1.	Access Science Database (for Civil, Mech. & Arch.)	http://mhebooklibrary.com				
2.	PROWESS (Multi User LAN Version containing Financial	http://prowess.cmie.com				
	databases of 27000 Indian companies.)					
3.	Economic Research (Eco View) + Industry Research on 10	http://www.crisilresearch.com				
	industries					

#### **Other Online Resources/Databases**

- 1. **BIS Codes** updated till June, 2009 (Through Intranet)
- 2. **CD-Rom Databases** (846 CD-ROMs on engineering subjects)
- 3. **DELNET Database** services for research papers & Books.

#### 12. Library & Information Services

- 1. Issuing of books (Main Library)
- 2. Issuing of books (Book Bank) (Extra books are issued to students of SC & ST)
- 3. Video Viewing Services
- 4. CD-ROM Databases
- 5. Reprographic Services (Photocopy Services)



- 6. Periodicals Services
- 7. Internet facility (Wi fi)
- 8. J-Gate Services
- 9. DELNET Services
- 10. Inter Library Loan (ILL) Services through DELNET
- 11. Reference Services
- 12. BIS and IRC Codes
- 13. Attending Users queries
- 14. Display of New Arrivals
- 15. Display of Important notices/ pamphlets etc.
- 16. Services to outside members
- 13. PG Students, Research Scholars and Faculty Members are also guided to use the **eSS-Consortium** services and **DELNET Database** services.

#### 14. Additional information

- (i) **Display of New Arrivals :** Newly purchased books are displayed in the Central Hall to make the users aware about new arrivals.
- (ii) **Database of Theses & Dissertations :** Theses and dissertation submitted to the institute have been entered and available on OPAC.
- (iii) Web-OPAC Users can access the Library database from across the Globe.

#### 15. Other Activities

- 15.1 Orientation to users about Online Access to e-Journals.
- 15.2 SSMP Oriented all new entrants about Library & its services.
- 15.3 Organising 'Books Exhibition' time to time.
- 15.4 Meeting Room facilities to various departments for organizing Meetings, Talks, Seminars etc.
- 15.5 Binding of books (time to time)

#### **16. FUTURE PLAN:**

- 16.1 Fire Safety Measures with Smoke Alarm System.
- 16.2 Purchase/subscription of e-Books and e-Journals on Various subject areas of E.S.T.
- 16.1 LED lights in entire Library.
- 16.2 Fitting of Air Conditioners in remaining part of Library





#### 9.4 LABORATORIES

In addition to Central workshop and Central computer Centre, each department has laboratories in their specific areas of specialization. These laboratories are being used for conducting experiments for B.Tech and M. Tech. students for their regular course work and also for research purposes. Few more laboratories have also been created to cater to the needs of research scholars. These laboratories provide facilities for research and are being used by faculty, Ph.D. and M.Tech. students.

#### National Level Laboratories here also been established in MNIT, Jaipur.

#### 9.5 PHYSICAL FACILITIES

The Campus of the Institute is spread over an area of 125.04 hectares. It presents a spectacle of harmony in modern architecture, natural beauty and picturesque surrounding. The campus area has been organized into three functional sectors:

- 1. Instructional Buildings/ Vivekananda Lecture Complex
- 2. Ultra-modern Corporate Office
- 3. Residential Area for the Faculty & Staff
- 4. Hostels for Students

The instructional buildings and Vivekananda Lecture Complex have been so located that these are fairly near to both the hostels and the staff quarters. Vivekananda Lecture Complex has 34,360 square meters covered area and has been built at an expenditure of Rs 80 crores. The building is centrally air-conditioned with 43 theatres with a seating capacity of 120 people and 6 theatres with a seating capacity of 240 people. These classrooms are smart classrooms and are equipped with all needful systems. As a commitment towards green buildings, solar panels are being put up on almost all Institute buildings to generate electricity.

There is a branch of ICICI Bank Ltd. and SBI on the premises and a Post-office in the campus. The ICICI Bank has installed an ATM on the campus.

An ultra-modern Corporate Office and Computer Centre have been developed and a Digital Library is being developed, having a carpet area of 20,000 square meters, for the students and faculty members of the Institute. The building houses the entire Administrative and Accounts Section, Establishment and Academic Staff office, Director's office, Deans' office, Registrar's office, Training & Placement office with banking and post office services.

A team of Medical Officers and two Compounders supervises a full-fledged dispensary. The Institute has also been extending facility of a part-time Homeopathic doctor, Ayuredic and a Lady Doctor in the campus. Adequately equipped Canteen building, one near the instructional zone and one near the hostels provide facilities to the students and the staff during and beyond the working hours of the college. There is a milk booth on the campus, a barber's shop, washer men, stationery shop and a government co-operative store to provide amenities to the residents.



#### 9.6 Games and Sports Facilities

#### Utilization:

All sports grounds are most of the times (in morning and evening hours) seen occupied by the students, staff wards and the staff of the institute towards their activities in games and exercises.

#### **Existing Infrastructure:**

#### **Outdoor Games/ Sports facility**

- 1. Basketball (Two Courts with flood lights and 2000 seating capacity)
- 2. Volleyball (Three Courts with flood lights)
- 3. Tennis (Three Synthetic Courts, International Standard)
- 4. Cricket (Two cemented pitch and Two turf cricket pitch)
- 5. Football (Two Courts)
- 6. Athletic Ground

#### **Indoor Games/ Sports facility**

- 1. Badminton (One Synthetic Court)
- 2. Billiard (One Table)
- 3. Table Tennis facility in sports complex and all hostels
- 4. Chess
- 5. Gym

#### **Outdoor Games**

**Basketball (Two Courts with flood lights):** There are two Basketball courts available and their structure follows the FIBA (Federation International Basketball Association) standard with sufficient space around. There are stairs on one side of the court for watching matches.

**Volleyball (Three Courts with flood lights):** There are three Volleyball courts are available according to the FIVB (Federation International De Volleyball) standard with sufficient space around. There are sufficient spaces for watching matches.

**Tennis (Three Courts with flood lights):** The Institute is preparing 03 Synthetic courts with flood light.

**Cricket (Two cemented pitch for practice and one cricket pitch):** There is a common playfield of Cricket and Athletic with sufficient space around. There are stairs on one side of the field for watching cricket matches.





**Football (Two Fields):** There is a common playfield where two green Football fields are available according to the FIFA standard with sufficient space around. There are stairs on one side of the field for watching matches.

Athletic: (One Track): There is a common playfield where the Track and Field is prepared before any tournament with sufficient space around. There are stairs on one side of the field for watching athletic performances.

#### **Indoor Games**

**Badminton (One Court):** There is one covered Badminton court are available according to the BWF standard with sufficient space around. There is sufficient space for watching badminton matches.

**Table Tennis:** Permanent facility for playing Table Tennis is not available in the institute. Temporarily it is being played in the OLH.

**Chess:** Permanent facility for playing Chess is not available in the institute. Temporarily it is being played in the badminton hall and sometimes in the Basketball Stadium.

Billiard (One Table): We have one standard size billiards table with all necessary accessories.

**Gymnasium Hall:** There is a standard Gymnasium hall in the institute. Gymnasium equipments are in the process of being purchased. Engineering students are interested in physique & physical culture. Institute team has won positions in most of the tournaments for Power Lifting and Best Physique.

#### **Proposed Addition:**

- 1. Leveling of surface is about to begin soon for proposed new cricket ground.
- 2. Approval already taken to built facilities for various games to be named as **New Sports Complex,** which will comprise of squash court, badminton court, basketball court, volleyball court, changing rooms and office premises.
- 3. New Gymnasium

#### **Utilization:**

All sports ground are most of the times (in morning and evening hours) occupied by the students, staff wards and the staff of the institute towards their activities in games and exercises.



# 9.7 OTHER FACILITIES LIKE, HOSTELS, MESSES, STAFF QUARTERS, ADMINISTRATIONETC.

The capacity of hostel for boys and girls are as under:-

S.N	Name of the	Total	Total number	er   Type of Rooms i.e. Single/ double	
0.	Hostel	Capacity	of Room bed/ other ( given name)		
1	H1-PARIJAT	177	108	72 single	
				36 Triple	
2	H2-CHAITANYA	169	108	72 single	
				36 Triple	
3	H3-SATPURA	180	108	72 single	
				36 Triple	
4	H4-LOHIT	140	108	72 single	
				36 double	
5	H5-BRIHASPATI	182	182	182 single	
6	H6-KABIR	180	108	72 single	
				36 Triple	
7	H7-DRONA	225	75	75 Triple	
8	H8-VARUN	212	212	212 single	
9	H9-AUROBINDO	975	975	975 single	
		10		s to single	
10	H10-PG HOSTEL	16	16	16 single	
11	H11-MAITRI	206	130	48 single	
				68 double	
				14 Triple	
12	H12-GARGI	402	402	402 single	

#### Position of Hostels Rooms (Boys & Girls)

During the session July every year occupancy of hostel is 100%





3. Caretakers are responsible for looking after the students. They are supposed to given possession of rooms and to prepare vacation report. It is the duty of caretakers to maintain complaint register, electricity, civil, door, bathroom, cleaning, water, water cooler, net working, glass etc, report to concerned authority and to pursue & monitor complaints. A list of caretakers in the hostel is as under:

	Warden	Hostel No	Hostel	Mobile No.	Name of the Caretaker	Mobile No.
			Name			
1	Dr. Tarush Chandra	Hostel No.1	Parijat	9549654390	Shri SatyanaryanPareek	9549657363
2	Dr. Vijay	Hostel No.1	Parijat	9549650129		
	Navratna Nadakuduru					
3	Dr. Dinesh Kumar	Hostel No.2	Chaitanya	9549654562	Shri SatyanarayanPareek	9549657363
					Shri Ankit Sharma	9887815657
4	Dr. Amar Patnaik	Hostel No.3	Satpura	9549657318	Shri Balvir Singh Rawat	9549659040
5	Dr. C. Periasamy	Hostel No.4	Lohit	9549654235	Shri Pushpendra Kaushik	9828633376
6	Dr. R.K. Duchaniya	Hostel No.5	Brihaspati	9549654246	Shri Daul Chand Saini	9414338750
7	Dr. Rajeev Kumar	Hostel No.6	Kabir	9549654168	Shri Babu Lal Kumawat	9549659194
	Dhore					
8	Dr. Vivekanand	Hostel No.6	Kabir	9549651360	•	
9	Dr. Nitin Gupta	Hostel No.7	Drona	9549658136	Shri Bhagwan Sahay	9549659167
10	Dr. Virendra Singh	Hostel No.7	Drona	9549654500	Kumawat	
11	Dr. Shubhayan Mandal	Hostel No.8	Varun	9549657338	Shri Devendra Kumar	8561866562
12	Dr. Gunjan Soni	Hostel No.8	Varun	9549654559	Singhal	
13	Dr. Harlal Singh Mali	Hostel No.9	Aurobindo	9549654561	Shri Sawai Singh Bhati	9549657385
14	Dr. Sushant Upadhyaya	Hostel No.9	Aurobindo	9549654173	Shri Ajay Singh	9549659169
15	Dr. Sumanta Kumar	Hostel No.9	Aurobindo	9549654856	Shekhawat	8058273136
	Meher				Shri Kuldeep Sharma	9413962939
16	Dr. Emmanuel Pilli	Hostel No 9	Aurobindo	9549658131	Shri Sandeep	9784849313
					Shri Bhupendra Pandey	
17	Mr. Jai Narayan	Hostel No.10	Kailash	9549657645	Shri Satyanaryan Pareek	9549657363
			(P.G.)			
18	Dr. Urimla Brighu	Coordinating	Girls	9549654214	-	-
		Warden				
19	Dr. Preeti Bhatt	Hostel No.11	Maitri	9549657352	Smt Leela Rawat	7792893017
			Hostel		Smt Kripa Kumari	9561939828
20	Dr. Suman Rathore	Hostel No.12	Gargi	9549657321	Shri Arujn Singh	8560022367
			Hostel			

- A faculty member of MNIT shall be appointed as Warden of hostel on the recommendation of Chief Warden and with the approval of Director, MNIT
- Wardens are the local guardians of the students and are responsible for their moral, mental and physical well-being.
- The Warden shall run the hostel. He/she will look after the general administration of the hostel.
- The Warden shall appoint a committee amongst students i.e mess committee, reading room committee or other committee as required.
- The warden shall supervise the working of concerned mess under the guidance of the Chief Warden and shall see that rules and procedures are strictly observed in the mess and hostel.
- If any matter of indiscipline reported by the Caretaker or it comes to his/ her knowledge suq moto, he/she will refer the case to standing disciplinary committee with the approval of the Chief Warden.
- The list of Wardens attached with the hostel is as above.
- Chief Warden A faculty member of MNIT is appointed as Chief warden by the Director of MNIT
- The hostels and messes shall function under the supervision and administrative control of Chief Warden. All the wardens will act under the supervision and directions of The Chief Warden.
- The Chief Warden shall appoint various committees of Council of Wardens i.e. Standing Disciplinary Committee, Procurement, Reading Room, Indoor Sports and Constructive Engagement, Discipline and Anti-Ragging, open area, up keep, plantation and Landscaping, maintenance, estate matters and water management, allotment of rooms in hostels & website.
- The policy frame work/ decisions regards hostels shall be decided by the Chief Warden with the concurrence of the Council of Warden.
- The decisions of the Chief Warden and wardens in their respective jurisdiction shall be final.

Allotment of Rooms:- Rooms will be allotted by the hostel office as per the policy for the allotment of rooms as decided by the Chief Warden and Council of Wardens. The policy of allotment of rooms in the hostel is as under:-

After allotment of rooms in the hostel student will report to Caretaker who will maintain his/her record after seeing Challan will give the possession of room in the hostel after signing inventory of the furniture, electrical and other items in the room. Any student withdrawing the hostel will hand over the possession of room and clear all dues.

#### Policy regarding Anti Ragging

In the MNIT cases of ragging is zero tolerance. A team of Council of Wardens and Caretakers are constituted which will take up the round of hostels and hostel area. The teams will work from 06.00P.M. to 12.00 night.

#### **Mess Management**

There are four messes No. 1,6,7 & 8 and students of hostel No. PG, 2, 3, 4, 5 are attached for dining arrangement in these messes. These messes are managed by the Mess Assistant and mess workers work





under the Mess Assistant. The boarders shall compulsorily join the mess attached to it. Mess committee as constituted by the Wardens amongst students shall manage affairs of mess. There shall be a committee of Secretary, Assistant Secretary, Treasure and two members. Mess Committee shall decide the mess menu with the consultation of Mess Assistant and Wardens. Mess Secretary is responsible to check the raw material and will sign each bill voucher for payment.

Mess diet shall be calculated on the basis of monthly consumption in the mess.

Mess of Aurobindo mess is being operated by M/s Bon Temps (P) Ltd, Ahmadabad since 16/07/2014 and present diet per student per day is Rs. 76/-. Mess is managed by the mess committee

Mess of Gargi hostel is being operated by M/s Kissan Catering since August,2014 and present diet per student per day is Rs. 76/- per day and affairs of mess are managed by the Mess Committee as constituted by the Warden.

#### **Other Facilities**

- 1. There is one common room for each hostel, having the facility of a colour television, and one Table Tennis table.
- 2. We have installed Video surveillance, DVR & accessories at Aurobindo hostel & Gargi hostel entry point & MSH for the safety and security of the hostel.
- 3. We have provided a set of 3 mechanized cleaning machine at Gargi, Aurobindo and Varun Hostel for proper cleaning of the hostels.
- 4. We have replaced old furniture i.e. bed, table and chair in Hostel No. 1 to 3 by providing furniture of Godrej. We will replace fans in hostel No. 1 to 03 during this semester.
- 5. Biometric Machine are installed in the messes No. 2,6,7 & 8 for recording attendance of mess works.
- 6. There are facilities of canteen at Garg, Aurobindo and Hostel No. 4 which are being operated by Private vendors.
- 7. We have adopted ERP module. We are generating must roll i.e. salary preparation, leave, EPF etc. of mess works. Students wise be able to monitor status of mess account, Calculation of mess diet, analysis and posting of voucher etc. are under progress.
- 8. We have provided indoor and outdoor facilities in all the hostels. Similarly, reading room facility with newspapers & magazine have also been provided in all hostels.
- 9. We have provided 04 fox bathroom/ toilets mechanized machines for hostel No. 1 to 7
- 10. We have developed a beautiful garden and trees in Aurobindo hostel
- 11. Every hostel have water cooler & water purifier, this facility is also available in messes.
- 12. Every hostel have gysers in the bathroom for hot water during winter session.
- 13. The account of hostel office are maintained on ERP by a firm of chartered Accountant. M/s M. Raghumathan& Associates, Chartered Accountant is authorized to audit account of MNIT, Mess fund.



**Medical Facility** – There is one dispensary in the MNIT premises which opens from 08 A.M. to 08 P.M. There is teams of Doctors and nursing staff. During anti-ragging period one ambulance is available at hostel office and available at call for the students. After night one driver with ambulance is available for emergency of students. In each hostel name of driver along with mobile No. is available in each hostel. In case any medicines required by the dispensary for the treatment of student is being made available to dispensary from MNIT Mess fund Account facility of ambulance is available to account the resident of the hostel without any charges. In case of emergency (or during late night hours), the boarder can take ambulance to any hospital.

#### **Staff Quarters**

The details of Staff quarters is as follows

	Туре	Nos.
1.	Aacharya Bhawan	198
2.	А	01
3.	В	17
4.	С	20
5.	D	78
6.	BH	8
7.	WWH	12
8.	F	66
9.	Н	52



### **10. Notable Achievements**

**MNIT JAIPUR** 

In the 11th Annual Convocation of the Institute 55 B. Arch., 615 B.Tech., 288 M.Tech., 14 M. Planning, 43 M.Sc., 31 MBA, 57 Ph.D. scholars degrees were awarded .

#### 10.1 Research, Development and Consultancy

An Institute can grow only when research and teaching mesh together seamlessly; one without the other is incomplete. We have ensured an environment conducive to learning, exposure to the best international practices and promotion of innovation and creativity. Major areas of research at MNIT are Nano Technology, Disaster Mitigation and Management, Energy, Stone, Composite Materials, Robotics, Biofuels and Green Buildings. 160 projects worth approximately 45 crore are currently under progress. The major funding agencies are: US-India Science & Technology Forum, Cranfield University, Australia, DST, Ministry of New and Renewable Energy, DEITY, DRDO, ISRO, BRNS etc.

950 consultancy projects with an outlay of about 15 crores have been granted to MNIT. 38 patents have been filed arising from research at MNIT.

The institute has signed MoUs with organizations like Maruti, HMT, REIL, Welspun Corporation, Ericsson, Infosys etc.

#### **10.2** Centres of Excellence

The institute boasts of highly advanced centres of research in Materials, Stone, Energy and Environment, Disaster Mitigation and Management, an Incubation and Innovation Centre, Centre for Steel, and Centre for Tribology

The Centre for Energy and Environment was established in 2012 with a view to enable sustainable and cost effective innovation and developing facilities pertaining to multi-disciplinary areas of renewable energy.

The centre has at present 16 students registered for Ph.D., 30 M. Tech. scholars and 12 project staff. Seven projects worth about 9 crores are under progress, the funding agencies being: DBT, DST, UKIERI, Indo-USSTF, MNRE, etc.

Since its inception, the centre has published 125 research articles and filed 2 patents. The centre organizes workshops/training programs for national audience in collaboration with Indian Green Building Council, South Asia Energy Efficiency Forum, etc.

We are in academic collaboration with Lawrence Berkley National Laboratory, USA, Oakridge National Lab. USA, Carnegie Melon University, USA, University of BONN, Germany.



Eminent speakers have been invited to deliver guest/expert lectures. Dr. P.C. Jain, Chairman IGBC, Dr. John Harper, AMTEK, USA, Ms Lucinda Gibbs, First Solar, USA, Prof Mohammad Arif, UK, to name a few.

The centre for Stone, CDOS, has to its credit, 26 publications in international journals, 2 book chapters, 9 conference papers and 7 filed patents. 5 PhDs have been awarded and two research projects are in progress.

The mission of the Centre for Disaster Mitigation and Management is to work for disaster mitigation in general and earthquake disaster in particular. The activities include experimental and analytical research. There are 10 adjunct faculty, and a full time Masters Program in earthquake engineering. The centre has a lab with state-of-art instruments.

ADST funded project worth 5.4 crores is underway.

The centre is mentored by Prof. T. K. Dutta, Retd. From IIT Delhi, Prof. CVR Moorthy, IIT Jodhpur, Prof. R. Jangid, IIT Bombay and Dr. Shailesh Agarwal, Ministry of Housing and Urban Poverty Alleviation.

MHRD and DST sanctioned a Technology Business Incubation centre (TBI) to MNIT.

It has been registered as a society under the name MIIC. The centre is temporarily working in Prabha Bhawan, the permanent building is under construction and is expected to be complete by July this year. 5 companies have already registered with the centre, procurement of machine is in process, facilities such as space, machines, labs, interaction with industry, venture capitalists and angel investors will be provided. A number of Entrepreneurship Development Programs have been organized at MNIT and other technical institutes of Rajasthan.

The MRC conducted one national conference, two invited talks, one summer training programme and one short term course in the last year. A technical presentation on Applications of Optical, Stylus Profilometers and AFM; and a symposium on Materials, Energy and Environment was organized by the centre.

#### **10.3** Infrastructure Development

The Vivekanand Lecture Theatre Complex (VLTC) with 42 rooms with seating capacity of 120 and 6 240 seater halls is complete. The complex has energy efficient glass windows and roof-top solar panels.

198 multi storied type VI quarters are nearly complete. These will create state-of-art residential facility for the staff.

Sports Complex with 2 basket ball courts, badminton courts, Table Tennis, Billiards, Squash, Martial Arts, Weight Lifting and indoor games has been planned and will be taken up as per fund availability.



The institute has been granted 3 MLD potable water connection from the Bisalpur waterline. Construction of two clear water reservoirs of 750 kL capacity is under progress and expected to be complete by April this year. Sewage treatment plant is functioning and the water is being used for horticulture in the institute. An irrigation network has been planned for the transport of water from the STP and is likely to be functional by March this year.

An 884 bedded hostel for girls is under construction. The work has been assigned to CPWD. Completion is expected by December 20 17.

The construction of Incubation Centre has started and will be finished by July 2017.

Second floor on the Department of Architecture is under progress. Expected completion is in June this year.

Specialized construction of a national facility for testing on national standards on base isolation system is planned.

#### **10.4** Student activities

Nine societies under Creative Arts and culture organized activities like plays, Dandiya night, slogan writing, debates, patriotic songs, code Friday, gessel-bots, Model United Nations, International Yoga day, 70th Independence day, National Unity week, TedX talks and more. Instrumental and vocal recitals from artists of international fame were organized under SPIC MACAY. The nine societies jointly organized the institute annual technical and cultural fest; BLITZSCHLAG.

The Alumni Committee (ALCOM) organized workshop on post accident care. Ruby Meet for the 1971-76 batch was held. Golden Jubilee felicitation for 1966 entry batch and Silver Jubilee felicitation for 1991 pass out batch was organized under its umbrella.

The Student Mentorship Program (SMP) organized a three-day Orientation Program for freshers. The group invited speakers to address the freshers on topics like Kota to Sriharikota and Secrets of Success. Kite Festival and Scholars' Cup are other events planned under its patronage.

Students of MNIT won laurels at inter NIT Athletics and Gymnastic meet, volleyball, badminton, basketball, cricket and kabaddi. Students participated in BOSM at BITS Pilani, and Spardha at IIT BHU.

MNIT is the only NIT to acquire the mandate to develop 5 villages into smart villages under the Unnat Bharat Abhiyan. Issues like drinking water, drainage, street lights, toilets, health and skill development are addressed. Workshops to decide future course of action were held with the officials of state administration.

The Scholarship cell disbursed 45 scholarships.

Scholarships worth 1.5 crore were disbursed to 329 students. Freeships were awarded to 9 students and wheelchairs were given to 4 students. 4063 students have been covered under medical insurance scheme.



### 10.5 Library

All active stacks of books have been entered in KOHA, cloud based open source software. All books in the library have been RF tagged and can be returned through electronic trolley. All users have been provided smart cards. The entire library is Wi Fi enabled. We have a rich collection of print books in the main library and in the book bank. Many reputed journals/databases in all subjects have been subscribed for life.

The library organized book exhibitions on Yoga day, National Unity Week and 3-day exhibition. The newly admitted students of UG and PG were given an orientation of the library.

#### 10.6 Training & Placement

A total of 98 companies visited the campus. Pre-placement and placement offers were given to 316 students of the institute. Internships were offered to 52 students. The highest pay package was 29lakh and the lowest 3.25 lakh. Amazon, DE Shaw, Arcesium, Deutsche bank, and Adobe are some of the companies that offered a pay package of above 10 lakh.

The Training and Placement section organized a workshop on Personality development and also facilitated guest lectures by the quality head of BOSCH India Ltd. Another workshop on Data Analytics and Cognitive Computing was organized.

#### **10.7** Other Notable Achievements

The DST funded three Inspire Faculty Awards and three Women Scientist Awards in the Department of Physics. Two members of the Physics department received Early Career Research Awards. 60 research papers were published in peer-reviewed journals during last year. Faculty members of the department visited labs in Germany and Italy.

The Mechanical Engineering Department invited Shri I. C. Jha, Vice President, Manufacturing, NEI and Dr. Suri Ganeriwala of Spectraquest, USA for lectures. The Department signed MoUs with Maruti, HMT, NITIE and MSIL. They conducted three GIAN courses, an STP on Advanced Opimization Techniques and a Finishing School Program for Govt. Women Engg. College, Ajmer.

Faculty from the Department of Humanities were invited for expert lectures. An international workshop on German language, attended by 40 teachers of German was organized by the department. A project on Politics of Alienation and Secessionism in North-East India was completed this year.

The Department of Metallurgical and Materials Engineering published 23 research papers, filed 3 patents, organized 5 one/two day workshops and is working on 6 projects worth 3.3 crores. They organized a number of seminars, symposia, conferences and short-term courses on topics like Advanced Materials Processing, Recent Advances in Ferrous Metallurgy, Solidification of Casting, etc.

The Department of Electronics & Communication Engineering organized 6 short-term courses and 5 invited lectures. Vigilance week was organized By Prof. R. P. Yadav, faculty member of the department.





Under the office of the Dean, International Affairs, MoUs with nine foreign universities have been signed to facilitate student and faculty exchange and joint supervision of Ph.D. (16 students are currently pursuing Ph.D. under joint supervision). The Ambassador of Japan and 29 leading academicians from other universities visited MNIT to explore possibilities of collaboration. 6 students from Ohio and Colorado, 2 from Germany and one from Algeria are currently working in MNIT. More than a dozen UG, PG and Ph.D. students of MNIT have visited Germany, Canada and Japan.

The students of the Architecture department won a design competition UTTAM Architect, organized by Birla Group. The competition had 200 entries and carried a prize money of Rs. One lakh.

Department of Chemical Engineering conducted four invited lectures by renowned scientists and has ongoing projects worth 1.6 crore.

Mathematics Department successfully conducted a short term course on MATLAB and a workshop on LaTeX for research. They also organized an invited lecture on Hyperbolic Geometry.



## **11. ANNEXURE**

### 11.1 BOARD OF GOVERNORS

S.	Nomination	Name and Designation of	Serve as
No.	under	nominated persons	
1.	Section 11	Ms. Chitra Ramkrishna,	Chairperson
	Clause (a)	MD & CEO, National Stock Exchange	
		of India Ltd.	
2.	(b)	Prof. Udaykumar R Yaragatti,	Ex-Officio Member
		Director, MNIT, Jaipur	
3.	(c) <b>The Joint Secretary</b> (Technical		Member
		Education)	
		Govt. of India, MHRD, Dept. of	
		Higher Education	
		Shastri Bhawan New Delhi	
4.	(c)	The Financial Advisor	Member
		Government of India, MHRD, Dept	
		of Higher Education, New Delhi	
5.	(d)	Prof. Ravi Juniwal,	Member
		Apex Institute of Management,	
		Jaipur	
6.	(d)	Member to be nominated by State	Member
		Govt.	
7.	(e)	Dr. Shashi Bala Singh, Director	Member
		General, DIPAS, DRDO (Life	
		Sciences), Delhi	
8.	(e)	Ms. Vidita Vaidya, Bhatnagar Awart,	Member
		TIFR, Mumbai	
9.	(f)	Prof. Khaleequr Rehman Niazi,	Member
		Department of Electrical Engineering,	
		MNIT Jaipur	
10.	(g)	Dr. Urmila Brighu,	Member
		Associate Professor, Department of	
11	G (* 10	Electrical Engineering, MNIT Jaipur	
11.	Section 18	Dr. A. K. Solanki,	Secretary
	Clause (2)	Registrar, MNIT, Jaipur	





## **11.2 FINANCE, BUILDING & WORKS AND OTHER COMMITTEES**

### **Finance Committee**

S. No.	Name and Designation of nominated persons	Serve as
1	Ms. Chitra Ramkrishna,	Chairman
	MD & CEO, National Stock Exchange of India Ltd.	
2	Prof. Udaykumar R Yaragatti, Director, MNIT, Jaipur	Ex-Officio Member
3	The Joint Secretary (Technical Education)	Member
	Govt. of India, MHRD, Dept. of Higher Education	
	Shastri Bhawan New Delhi	
	The Financial Advisor	Member
	Government of India, MHRD, Dept of Higher Education,	
	New Delhi	
	Prof. Ravi Juniwal,	Member
	Apex Institute of Management,	
	Jaipur	
4	Dr. Shashi Bala Singh, Director General, DIPAS, DRDO (Life	Member
	Sciences), Delhi	
5	Dr. A. K. Solanki,	Ex-officio Member Secretary
	Registrar, MNIT, Jaipur	

## **Building & Works Committee**

S. No.	Name and Designation of nominated persons	Serve as
1	Prof. Udaykumar Yaragatti,	Director, Ex-Officio
	Chairman, BWC & Director	Chairman
	MNIT Jaipur, JLN Marg,, Jaipur – 302017	
2	Sh. Sanjeev K. Sharma,	Nominee, MHRD
	Director (NITs),	
	Department of Higher Education	
	Ministry of Human Resource Development	
	Government of India	
	Shastri Bhawan, New Delhi – 110 001	
3	Sh. Manish Jindal,	Nominee, BOG
	Registrar,	
	PEC University of Technology, Sector – 12,	
4	Chandigarh – 160012	
4	Shri Krishna Maheswari,	Expert from Civil
	Superintending Engineer (Civil, Planning)	
	CPWD Circle, Sector-10, Vidhyadhar Nagar, Jaipur	
5	Sh. Arjun Singh,	Expert from Electrical
	Managing Director, JVVNL Jaipur	
6	Prof. A. K. Vyas,	Dean, P&D
	Dean (P&D),	
	MNIT Jaipur, JLN Marg, Jaipur – 302017	
7	Dr. A. K. Solanki,	Member Secretary
	Registrar	
	MNIT Jaipur, JLN Marg, Jaipur – 302017	



## THE SENATE

S. No.	Name	Designation and Address
1.	Prof. Udaykumar R. Yaragatti	Director & Chairman Senate, MNIT Jaipur
2.	Prof. A. K. Khare	Ex-Pro Vice Chancellor, UP Technical University,
2.		Lucknow
3.	Dr. S. Rangnekar	Professor Energy MANIT Bhopal, Bhopal
4. Prof. Ashok Bapna		Honorary Professor, Brand Building Documentation
	Tron. Thomas Bupilu	Centre, MNIT Jaipur
5.	Prof. Ravindra Nagar	Dean, Academic & Professor, Civil Engg Dept., MNIT
	1101111111111111110	Jaipur
6.	Prof. Rohit Goyal	Dean, (P&D) and Professor, Civil Engg. Department,
		MNIT Jaipur
7.	Prof. Manoj Fozdar	Dean, Faculty Welfare & Professor Electrical Engg. Dept.,
		MNIT Jaipur
8.	Prof. Dilip Sharma	Dean, Students Welfare & Alumni Affairs and Professor
		Mechanical Engg. Dept., MNIT Jaipur
9.	Prof. Awadhesh Bhardwaj	Dean, Research & Consultancy and Professor, Mechanical
		Engg. Dept., MNIT Jaipur
10.	Prof. Jyotirmay Mathur	Dean, International Affairs & Professor, Mechanical Engg.
		Dept., MNIT Jaipur
11.	Prof. Alok Ranjan	Professor, Architecture & Planning Department, MNIT
		Jaipur
		Head, National Centre for Disaster Mitigation and
12.	Prof. M. K. Shrimali	Management and Professor, Civil Engg. Dept., MNIT
		Jaipur
13.	Dr. Tarush Chandra	Head, Architecture & Planning Dept. MNIT Jaipur
14.	Dr. Sanjay Mathur	Head, Centre for Energy & Environment, MNIT Jaipur
15.	Dr. Kailash Singh	Head, Chemical Engg. Department MNIT Jaipur
16.	Dr. Jyoti Joshi	Head, Chemistry Dept. MNIT Jaipur
17.	Prof. Gunwant Sharma	Head & Professor, Civil Engg. Department, MNIT Jaipur
18.	Prof. M. S. Gaur	Head & Professor, Computer Science & Engg.
10.		Department, MNIT Jaipur





19.	Dr. Vikas Gupta	Head, Electrical Engg. Dept., MNIT Jaipur			
20.	Prof. K. K. Sharma	Head & Professor, Electronics & Comm. Engg. Dept.,			
20.		MNIT Jaipur			
21.	Dr. Nupur Tandon	Head, Humanities Department, MNIT, Jaipur			
22.	Dr. M. L. Mittal	Head, Management Studies, MNIT Jaipur			
23.	Dr. Vatsala Mathur	Head, Department of Mathematics, MNIT Jaipur			
24.	Prof. G. S. Dangayach	Head & Professor, Department of Mechanical Engg. Dept.,			
27.	1 101. G. S. Dangayaon	MNIT Jaipur			
25.	Dr. Kanupriya Sachdev	Head, MRC, MNIT Jaipur			
26.	Prof. A. K. Bhargava	Head & Professor, Metallurgical & Materials Engg.			
20.	1 IOI. A. K. Dhargava	Department MNIT Jaipur			
27.	Prof. Suman Kumar Sharma	Head & Professor, Physics Department, MNIT Jaipur			
28.	Prof. A. B. Gupta	Professor, Civil Engg. Department, MNIT Jaipur			
29.	Prof. R. A. Gupta	Professor, Electrical Engg. Department MNIT Jaipur			
30.	Prof. R. C. Gupta	Professor, Civil Engg. Dept., MNIT Jaipur			
31.	Prof. Rajeev Shringi	Professor, Architecture & Planning Department MNIT			
51.	i ioi. Rajeev Shi ilgi	Jaipur			
32.	Prof. Rakesh Jain	Professor, Mechanical Engg. Department MNIT Jaipur			
33.	Prof. Sudhir Kumar	Professor, Civil Engg. Department, MNIT Jaipur			
34.	Prof. Vineet Sahula	Professor, Electronics & Comm. Engg. Dept., MNIT			
54.	1 Ioi. Vineet Sanuta	Jaipur			
35.	Prof. M. C. Govil	Professor, Computer Science & Engg. Dept. MNIT Jaipur			
36.	Prof. Ashok Sharma	Professor, Metallurgical & Materials Engg. Department,			
50.	1 IOI. ASHOK Sharma	MNIT Jaipur			
37.	Prof. Gopal Agarwal	Professor, Mechanical Engg. Department, MNIT Jaipur			
38.	Prof. S. L. Soni	Professor, Mechanical Engg. Department, MNIT Jaipur			
39.	Prof. A. P. S. Rathore	Professor, Mechanical Engg. Department MNIT Jaipur			
40.	Prof. P. R. Soni	Professor, Metallurgical & Materials Engg. Department,			
40.		MNIT Jaipur			
41.	Prof. Upender Pandel	Professor, Metallurgical & Materials Engg. Department, MNIT			
	-	Jaipur			
42.	Prof. Y. P. Mathur	Professor, Civil Engg. Department, MNIT Jaipur			
43.	Prof. B. L. Swami	Professor, Civil Engg. Department, MNIT Jaipur			



44.	Prof. A. K. Vyas	Professor, Civil Engg. Department, MNIT Jaipur
45.	Prof. Alok Gupta	Professor, Chemical Engg. Department MNIT Jaipur
46.	Prof. S. P. Chaurasia	Professor, Chemical Engg. Department MNIT Jaipur
47.	Prof. K. R. Niazi	Professor, Electrical Engg. Department, MNIT Jaipur
48.	Prof. Rashmi Jain	Professor, Mathematics Department, MNIT Jaipur
49.	Prof. R. P. Yadav	Professor, Electronics & Comm. Engg. Dept., MNIT Jaipur
50.	Prof. D. Boolchandani	Professor, Electronics & Comm. Engg. Dept., MNIT Jaipur
51.	Prof. M. K. Banerjee	Steel Chair Professor, Metallurgical & Materials Engg., MNIT Jaipur
52.	Prof. V. Sinha	Professor, Electronics & Comm. Engg. Dept., MNIT Jaipur
53.	Prof. Tushar Kanti Datta	Professor-Adjunct, National Centre for Disaster Mitigation and Mgt., MNIT Jaipur
54.	Prof. Sampad Kumar Biswas	Professor-Visiting, Metallurgical & Materials Engg., MNIT Jaipur
55.	Dr. A. K. Solanki	Registrar & Secretary, MNIT Jaipur
56.	Ms. Shivangi Gupta (2013UMT1265)	Student nominee (UG)
57.	Ms. Shilpa Thakral (2015PEV5047)	Student nominee (PG)





### **11.3 RESEARCH PROJECTS AND CONSULTATION JOBS**

#### 1. Summary of Major Sponsored Research Schemes & Consultancy Projects

S. No.	Name of the	Principal	Sponsoring	Type of funding agency	Outlay	Completed
	Project	Investigator /	Agency	(R&D/ academic/	(in	/Ongoing
		Coordinator		Industry/PSU/Govt./Sp	Lacs of	
				ecify if any other.)	Rs.)	
1.	Vernacular	Dr. Ashwani	DST	R&D	6.5	Ongoing
	Practices as a	Kumar,	Rajasthan			
	basis for	Dr. Satish				
	formulation of	Pipralia				
	building					
	regulations for					
	different climatic					
	zones of					
	Rajasthan					

### New Research Projects (Started in the Year 2016-17):

### New Consultancy Projects (Started in the year 2016-17)

S. N o.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic / Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed / Ongoing
1.	Design & Vetting of LGSF structures at IIT Mandi	Dr. Tarush Chandra	Elemente Designer Homes, Haldwani	Industry	0.68	Ongoing



2.	Documentation for the purpose of conservation/ restoration/ renovation/ beauti fication work of Raj bhawan, Jaipur & Mount Abu Premises	Ar. Ramniwas Sharma	Govt of Rajasthan	Govt.	-	Ongoing
3.	Campus Development for Ch.Charan Singh National Institute of Agricultural Marketing	Ar. Ramniwas Sharma	NA	Govt.	-	Ongoing

### CENTRE FOR DISASTER MITIGATION AND MANAGEMENT

## Continuing Sponsored Research Projects (Started earlier than 1st April 2016):

S.	Name of the	Principal	Sponsoring	Type of funding agency	Outlay (in	Completed
No.	Project	Investigator/	Agency	(R&D/ academic/	Lacs of	/Ongoing
		Coordinator		Industry/PSU/Govt./Specify	Rs.)	
				if any other.)		
01	Indigenous	PI: Dr.	DST-	GOI	546.00	Ongoing
	Design &	S.D.	TDP			
	Development	Bharti				
	of Prototype	Co-PI:				
	Base	Prof. M.K.				
	Isolation for	Shrimali				
	Earthquake					
	Hazard					
	Mitigation					



## **Continuing Consultancy Projects started and completed in the year 2016-17**

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/	Outlay (in Lacs	Completed /Ongoing
				academic/ Industry/PSU/Govt. /Specify if any other.)	of Rs.)	
01	1000111375 Proof Checking of CWR	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	PHED	Govt.	0.60	Completed
02	1000111372 Proof checking of RoBs at LC18,30,39,53	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	NHAI	Govt.	3.5	Completed
03	1000111252; Proof checking of RoB (Bassi) LC-200	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	NHAI	Govt.	4.0	Completed
04	1000109239;Rahabilitation of Vigyan Bhawan, Geology Dept and Register Bungalow;	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	UR	Govt.	0.6	Completed
05	1000111374;Proof checking of academic block at Agriculture college Jobner & Kumher	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	Design Architect	Industry	0.60	Completed
06	1000111373;Proof Checking of Building RSETI-Dausa	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	UCO Bank	Govt.	1.0	Completed
07	1000111345;feasibility study of ESRs at Pali	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	Pungalia	Industry	2.0	Completed
08	1000111227;Proof Checking of Box Culverts across IOC pipe Line at PratapNagar Jaipur	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	IOC	Govt.	0.5	Completed
09	1000111216;Proof Checking of RoB at Dantli	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	Theme	Industry	1.0	Completed



	1000111120 D C	1	1	T 1 (	2.0	
10	1000111139;Proof Checking of two RoBs on Khimel-Falna Section at Madhar Palanpur Ajmer section	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. P.V. Ramana	Ajay Chetan	Industry	3.0	Completed
11	1000111102;proof checking of bridge widening at Bambala	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	Theme	Industry	1.0	Completed
12	1000110963;Vetting of ESR,CWR,PH,SITC and PLJTC of WTP	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	PHED	Govt.	1.5	Completed
13	1000110962;Proof Checking of RoB at Piran Kaliyar, Haridwar	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	Strength	Industry	1.0	Completed
14	1000110931;Revised proff checking of bottling plant	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	IOC	Govt.	0.5	Completed
15	1000110879;Proof Checking of Structural Design of Hospital Building at Bharatpur and Bhilwara;	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	Design Architect	Industry	10.5	Completed
16	1000110878;Proof Checking of Structural Design of Library Building at RU	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	Design Architect	Industry	1.0	Completed
17	1000110787;Proof Checking of Court Building at Udaipur	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	Design	Industry	0.6	Completed
18	1000110784;Vetting of RoB	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	Strength	Industry	1.0	Completed
19	1000110382;Proof Checking of Design of ESTI Building, Jaipur	Prof. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana	JDA	Govt.	0.75	Completed





## New Consultancy Projects (Started in the year 2016-17)

S.	Name of the	Team	Client	Type of funding agency	Outlay	Completed
No.	Project	Members		(R&D/ academic /	(in Lacs	/ Ongoing
				Industry/PSU/Govt./	of Rs.)	
				Specify if any other.)		
Vetting of		Prof. M.K.		Govt		
		Shrimali			0.5	Completed
STP	Dr. S.D. Bharti	JDA				
	STP	Dr. PV Ramana				
		Prof. M.K.		Industry	1.0	Completed
2	PoP of Sagar	Shrimali	Strongth			
2	ROD at Sagai	Dr. S.D. Bharti	Suengui			
		Dr. PV Ramana				
		Prof. M.K.		Govt.	0.75	Completed
2	Coro tosting	Shrimali	MES			
5.	Core resully	Dr. S.D. Bharti	IVIES			
	S. No. 1 2 3.	No.Project1Vetting of1.5MLDSTP2RoB at Sagar	No.ProjectMembersNo.ProjectMembers1Vetting of 1.5MLD 5TPProf. M.K. Shrimali Dr. S.D. Bharti Dr. PV Ramana2RoB at SagarProf. M.K. Shrimali Dr. S.D. Bharti Dr. S.D. Bharti Dr. S.D. Bharti Dr. PV Ramana3.Core testingProf. M.K. Shrimali	No. Project Members Members 1 Vetting of 1.5MLD Prof. M.K. 5TP Dr. S.D. Bharti Dr. S.D. Bharti Dr. PV Ramana 2 RoB at Sagar Prof. M.K. 5hrimali Dr. S.D. Bharti Dr. S.D. Bharti Dr. S.D. Bharti Dr. S.D. Bharti Dr. S.D. Bharti Dr. S.D. Bharti Dr. PV Ramana 3. Core testing Prof. M.K.	No. Project Members (R&D/ academic / Industry/PSU/Govt./ Specify if any other.) Vetting of 1.5MLD STP Prof. M.K. 2 RoB at Sagar Prof. M.K. 3. Core testing Prof. M.K. Shrimali Dr. PV Ramana Prof. M.K. Shrimali Dr. PV Ramana MES	No.ProjectMembers(R&D/ academic / Industry/PSU/Govt./ Specify if any other.)(in Lacs of Rs.)1Vetting of 1.5MLD STPProf. M.K. Shrimali Dr. S.D. Bharti Dr. PV RamanaJDAGovt0.52RoB at SagarProf. M.K. Shrimali Dr. S.D. Bharti Dr. PV RamanaJDAIndustry1.02RoB at SagarProf. M.K. Shrimali Dr. PV RamanaStrengthIndustry1.03.Core testingProf. M.K. ShrimaliStrengthGovt.0.75

### **CENTRE FOR ENERGY & ENVIRONMENT**

## Continuing Sponsored Research Projects (Started earlier than 1<sup>st</sup> April 2016):

S.	Name of the Project	Principal	Sponsoring	Type of funding	Outlay	Completed
No.		Investigator/	Agency	agency (R&D/	(in Lacs	
		Coordinator		academic/	of Rs.)	/Ongoing
				Industry/PSU/Govt./Sp		
				ecify if any other.)		
1.	US-India Joint	Prof.	US-DOE and	Govt.	5.93	Ongo
	centre for building	Jyotirmay	Indian Ministry		cr.	ing
	and development	Mathur	of science and			
	(CBERD) under the		technology with			
	umbrella of US-		matching			
	INDIA partnership		industrial			
	to advance clean		funding			
	energy (PACE)					





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	2.	Setting of energy	Prof.	RRECL	Govt.	20	completed
		resourse centre by	Jyotirmay			lacs	
		RRECL	Mathur				
	3.	Biomass to Biogas	Dr.	Department of	Govt	88.0	Ongoing
			Vivekanand	Biotechnology,		0	
				GoI			

## New Research Projects (Started in the Year 2016-17):

S.	Name of the Project	Principal	Sponsoring	Type of funding	Outlay	Completed
No		Investigator /	Agency	agency (R&D/	(in Lacs	
•		Coordinator		academic/	of Rs.)	/Ongoing
				Industry/PSU/Govt./		
				Specify if any other.)		
1.	UK India Clean Energy	Prof. Jyotirmay	Indo-UK	Govt.	102.2	Ongoing
	Research Institute	Mathur			lacs	
	(UKICERI)					
2.	IEQ standard	Prof. Jyotirmay	ISHRAE	ISHRAE	16.25	Ongoing
	implementation methodology	Mathur			lacs	
3.	Development and	Dr. Sanjay	Department	Govt	65.21	Ongoing
	performance analysis of	Mathur/ Prof	of Science		lacs	
	double pane Semi- Transparent Solar	Jyotirmay	and			
	Photovoltaic	Mathur	Technology,			
	Window/Facade system		Govt. of India			
4.	Coupled pretreatment	Dr Vivekanand	SERB-DST	Govt.	21.650	Ongoing
	strategy to overcome the					
	recalcitrance of biomass for					
	improved biogas production					
5.	Developemnt of Flexible	Dr Kapil	SERB -DST	Govt.	40.40	Ongoing
	Supercapacitors for flexible	Pareek				
	and wearable electronics					
6.	Biogas for the people	Dr Vivekanand	DST	Govt of India	13.0	Approved
	sustainable utilization					
	strategies in India and					
	Austria for agricultural,					
	agroindustrial and municipal					
	residues utilization for robust					
	biogas production process.					



#### S. Name of the Project Type of funding agency Completed Team Members Client Outlay (in No. (R&D/ academic/ Lacs of /Ongoing Industry/PSU/Govt./ Rs.) Specify if any other.) ISHRAF Reclassification of ISHRAF 5 47 lac Completed 1 Prof Ivotirmay

### **Continuing Consultancy Projects started and completed in the year 2016-17:**

1.	Reclassification of	Prof. Jyotirmay	ISHRAE	ISHRAE	5.47 lac	Completed
	climatic zones of	Mathur				
	Indian cities and					
	updating weather					
	data book with e-					
	publishing					
2	Upgradation of	Dr. Sanjay	M/S Shanti	Industry	0.575 lacs	Completed
	Effluent Treatment	Mathur,	Drug Pvt.			
	Plant at Shanti	Dr. Vivekanand,	Ltd. Bhiwadi			
	Drugs Pvt. Ltd	Dr. Kapil Pareek				
3	Vetting/ Proof	Dr. Sanjay	M/S Geo	Industry	0.575 lacs	Completed
	Sewer line and STP	Mathur,	Planet Pvt.			
	at Degana	Dr. Vivekanand,	Ltd.			
		Dr. Amartya	Jaipur			
		Choudhary				
L	1	1	1	1	1	





### **DEPARTMENT OF CIVIL ENGINEERING**

## Continuing Sponsored Research Projects (Started earlier than 1st April 2016):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/ PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1	Assessment of possibilities of recovery and reuse of wastewater in handmade paper industry in Sanganer	A. B. Gupta; Dr Kailash Singh; Saakshi	DST, (2011)	GOI	35.98	Work under progress
2	Treatment of textile wastewater using sand as a low cost adsorbent	Dr Urmila Brighu, A.B. Gupta	RPCB(2014)	GOR	14.42	Work under progress
3	Defluoridation of Drinking water using Combination of Magnesium and Calcium amended activated alumina	Suja George, A.B. Gupta	DST, Rajasthan India (2013)	GOR	11.524	Work under progress
4	Sustainability Evaluation of Urban Environment Quality and Development of upcoming Megacities of India	Mentor: Prof. Rohit Goyal PI: Dr. Ankita Pran Dadhich	DST, New Delhi under the Women Scientists Scheme (WOS)	Govt.	23.93	Ongoing



	Utilisation of Marble					
	Slurry powder for					
	Production of	Suja George,			10.054	. ·
5	Hydroxyapatite	Virendra Saharan,	RPCB(2015)	Rajasthan Government	42.976	Ongoing
	(HAP) suitable for	A.B. Gupta		Government		
	defluoridation of					
	drinking water					
		PI: Prof. Rohit Goyal,				
	IWRM Plan for	Members: Prof. A.B.	CH2M Hill	<b>T</b> 1 (	7.50	. ·
6	KBNIR in Rajasthan	Gupta, Dr. Sandeep Srivastava	(India) Pvt.	Industry	7.50	Ongoing
			Ltd, Noida			
	Durability studies on	Ms. Salmabanu	DST, New			
7	geopolymer concrete	Ismilbhai Luhar &	Delhi	GOI	22.11	Ongoing
	containing waste	Dr. Sandeep				
	rubber fibber as partial	Chaudhary				
	replacemnt of sand					
	Experimental					
	Investigations of					
	Bond Characteristics		Institution of			
8	of Steel-Concrete		Engineers	GOI	0.75	Ongoing
	Composite Interface		(India)			
	Connected by					
	Adhesive Bonding					
	Utilization of Plastic	Dr. Sandeep	DST, New			
9	Waste in Concrete:	Chaudhary	Delhi	GOI	11.7	Ongoing
	Feasibility Studies	Chuddhary	Domi			
	Indigenous design and					
	development of					
1	prototype base	Dr. S. D. Bharti	DST, New	GOI	530.24	Ongoing
	isolation systems for	DI. S. D. Bliatti	Delhi	001	Lakh	Oligoling
	earthquake hazard					
	mitigation					
	Recruitment	PI: Prof. Rohit Goyal,				
11		Members: Prof. I.K.	PWD, Daman	Govt.	21.0	Completed
	(Confidential)	Bhat, Prof. Awadhesh	· · · 2, 2 · · · · · · ·			compressed
		Bhardwaj				
	CDOS Research	Prof. Ravindra Nagar	CDOS	Industy	30 Lacs	Ongoing
12	2 Chair				per year	Subound



## New Research Projects (Started in the Year 2016-17):

S. No.	Name of the Project	Principal Investigator / Coordinator	Sponsoring Agency	Type of funding agency (R&D/ Academic/ Industry/PSU/Govt. /Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1	Impact of Climate Change on Water Resources of Tapi Basin	Dr. Rohit Goyal	Ministry of Water Resources, RD & GR , GOI	GOI	18.27	Ongoing
2	Climate Change Impact Studies for Rajasthan ( Area of Inland Drainage and Mahi basin)	Dr. Mahender Chaudhary	Ministry of Water Resources, RD & GR , GOI	GOI	208.82	Ongoing
3	Improvement in Sensitivity and Specificity of ColiPAT kit (a low-cost field test kit for detection of Coliforms in drinking water)	Dr. Urmila Brighu	CCDU, Rajasthan	Govt. of Rajasthan	20.4	Ongoing
4	Waste Utilization in Concrete as Aggregate: Asian Perspective	Dr. Sandeep Chaudhary	Asian Concrete Federation	Industry	5.84	Ongoing
5	Installation of a pilot plant of 10 KLD comprising ZnO- Graphene based sensitive catalytic filter for the treatment of effluent of CETP, Jodhpur as a replacement of their secondary treatment unit and development of an alternative low cost treatment with ac	Dr. Urmila Brighu	DST, GOI	GOI	42.65	Ongoing



6	Active Vibration Control of Smart	Dr. Rosalin Sahoo	SERB-DST, New Delhi	GOI	19.09	Ongoing
	Composite and Sandwich Structure in	54100	New Denn			
	Hygro-thermal Environment					
7	Optimization of disinfection process for secondary treated sewage by hybrid disinfection	Dr. A.B. Gupta	DST New Delhi	GOI	26.94	Ongoing

## New Consultancy Projects (Started in the year 2016-17)

S. No.	Project Name	Team Members	Client	Type of funding agency (R & D/ academic. Industry /PSU/Govt./Spec ify if any other	Outlay (in Lacs of Rs.)	Completed/ Ongoing
1	Proof Checking of the structural drawings and stability of structure of Drug Testing Laboratory, Sethi Colony, Jaipur.	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	M/s R.M Constructio ns	Industry	0.573	Completed
2	Proof Checking of Structural Design for Girls College Didwana	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii Ravindra Nagar</li></ul>	Didwana Vikas Parishad Samiti	Govt.	0.573	Completed
3	Proof checking of design and drawings of OHSR, UG Tank with pump room	<ul> <li>(i) Rajesh Gupta</li> <li>(ii) Sandeep</li> <li>Chaudhary</li> <li>(iii) Ravindra Nagar</li> <li>(iv) Vinay Agarwal</li> </ul>	M/s Krishna Kunj Pvt Ltd	Industry	0.573	Completed
4	Testing of Steel Bars of seven sizes	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Sandeep Shrivastava</li><li>(iii) Rajesh Gupta</li></ul>	Melodia	Industry	0.573	Completed



5	Mix Design (M30) and Proof Checking of Design & Drawings of RCC SR 135kL at RWSS Nayan Kalwaniton Ka Bas, Tehsil Shahpura, Dist. Jaipur	(i) Vinay Agarwal (ii) Rajesh Gupta (iii) Sumit Khandelwal	M/s Ganpati Construction Company	Industry	0.573	Completed
6	Appraisal of DPR Ranthambore amrut yojana	(i) Y.P Mathur (ii) Gunwant Sharma (iii) Vinay Agrawal	PWD Commission Sawai Madhopur	Govt.	1.725	Completed
7	Vetting of design and drawing under Package I and III	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li><li>(iv) S.K. Tiwari</li></ul>	PC Snehal Constructio n Company	Industry	8.050	Completed
8	Concrete Mix Design M25 for the work of 884 bedded Girls' HOSTEL for MNIT JAIPUR	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	BCC Developers and Promoters Pvt Ltd	Industry	0.573	Completed
9	Proof Checking of RoB at Lohawat	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) Rajib Sarkar</li></ul>	Strength Engineering Services Pvt Ltd	Industry	1.145	Completed
10	Proof checking of GSS Building	(i) Sumit Khandelwal (ii) Gunwant Sharma (iii) Vinay Agrawal	M/s Parshi Training and Technical Services Pvt Ltd	Industry	0.573	Completed
11	Vetting of Structural Drawings of Madarsa Board Building (II and III Floor) at Shiksha Sankul, JLN Marg, Jaipur	<ul><li>(i) Vinay Agarwal</li><li>(ii) Rajesh Gupta</li><li>(iii) Sandeep</li><li>Chaudhary</li></ul>	M/s Kishori Construction Company	Industry	0.573	Completed





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	12	Proposedcausewaybetween RIICO residentialcolonyandRHB,Sanganer	<ul> <li>(i) B.L. Swami</li> <li>(ii) Y.P Mathur</li> <li>(iii) Gunwant</li> <li>Sharma (iv)</li> <li>Vinay Agrawal</li> </ul>	Sr DGM RIICO EPIP Sitapura	Govt.	1.718	Completed
	13	Appraisal of DPR of CETP at Kartarpura	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	Saurabh Constructio n	Industry	1.150	Completed
	14	Appraisal of DPR of Sewerage/ Water Supply of Nagaur under AMRUT	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	Nagar Parishad Nagaur	Govt.	2.290	Completed
	15	Apprisal of DPR unsewered area of Jaipur	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	JDA	Govt.	2.061	Completed
	16	Proof Checking of Pavement Design for Chhapra-Gopalganj (NH- 85)	<ul><li>(I) B.L. Swami</li><li>(ii) Gunwant Sharma</li><li>(iii) Pawan Kalla</li></ul>	GR Infra Projects	Industry	0.575	Completed
	17	M-25 Mix Design for the work of 884 Bedded Girls Hostel Jaipur	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	M/s BCC Developers & Promoters Pvt Ltd	Industry	0.573	Completed
	18	Proof checking of Drawing of Railway Shed	<ul> <li>(i) Sumit</li> <li>Khandelwal</li> <li>(ii) Sandeep Chaudhary</li> <li>(iii) Mahesh Kumar</li> <li>Jat</li> </ul>	M/s Narendra Dev Railways	Industry	1.250	Completed
	19	Testing of material soil, and steel for I/A Karoli, Bhiwadi	<ol> <li>B.L. Swami</li> <li>(ii) Gunwant Sharma</li> <li>(iii) Vinay Agrawal</li> </ol>	Mr K Rameshwara Reddy Kunal Structure Pvt Ltd	Industry	1.277	Completed



20	<ul> <li>Proof Checking of Design</li> <li>and Drawings for detiils of</li> <li>open foundation of High</li> <li>Level Kharka Bridge in</li> <li>Km 62 on Salumber-Keer</li> <li>Kik Chowki Road,</li> <li>Rajasthan</li> </ul>	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Rajesh Gupta</li> <li>(iii) Ravindra Nagar</li> </ul>	Hurcules Structural System Pvt Ltd	Industry	0.573	Completed
21	Design of C.C. roads at Industrial Area, Beawar Phase 1 & 3.	<ul> <li>(i) B.L Swami</li> <li>(ii) Arun Gaur</li> <li>(iii) J.K. Jain</li> <li>(iv) Gunwant</li> <li>Sharma</li> </ul>	Sr Regional Manager RIICO Ltd Ajmer	Govt.	2.863	Completed
22	Vetting of Structural Drawings of Telescopic Pole	<ul><li>(i) Vinay Agrawal</li><li>(ii) Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	M/s The Vision House	Industry	0.573	Completed
23	ProofCheckingofStructuralDesignofHospitalBuildingatBharatpurand Bhilwara	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	Design Architects	Industry	12.023	Completed
24	ProofCheckingofStructuralDesignofLibrary Building at RU	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) Rajib Sarkar</li></ul>	Design Architects	Industry	0.687	Completed
25	Proof Checking of ESR	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li><li>(iv) S.K. Tiwari</li></ul>	M/s Gammon India Ltd	Industry	0.575	Completed
26	Vetting of design and drawing of work under package IV for Nimbahera, Bari-sadri, Fatehnagar-Sanwar and Kushalgarh	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	DRA BIPL Joint Venture	Industry	6.900	Completed
27	Testing of Paver Sample for Compressive Strength, Water Absorption and Abrasion resistance	<ul> <li>(i) Sandeep</li> <li>Chaudhary (ii)</li> <li>Sandeep Shrivastava</li> <li>(iii) Rajesh Gupta</li> </ul>	M/s Bharat Petroleum	PSU	0.573	Completed



	Vetting of drawing and	(i) Y.P Mathur	N.K			
28	Design of 100 KL OH	(ii) Gunwant Sharma	Constructio	Industry	0.573	Completed
	Tank at Deharadun	(iii) Vinay Agrawal	ns	industry	01070	Compreted
		(i) Rajib Sarkar	110			
29	SPT at Khatik Basti and Purani Kachari	<ul><li>(i) Kajib Sarkai</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li><li>(iv) S.K. Tiwari</li></ul>	The Ex. En PHED	Govt.	1.603	Completed
30	Compressive testing of cores	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li></ul>	SE CWE Bikaner	Govt.	0.573	Completed
31	Proof checking of STP and SPS at Suratgarh and Bhadara	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	M/s Montecarlo Limited	Industry	3.450	Completed
32	IWRM Plan for KBNIR in Rajasthan	<ul><li>(i) Rohit Goyal</li><li>(ii) A.B. Gupta</li><li>(iii) Sandeep</li><li>Shrivastava</li></ul>	CH2M Hill India Pvt Ltd	Industry	2.405	Completed
33	Testing of DBM Grade-II and BC Grade-II Cores	<ul><li>(i) J.K. Jain</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	Project Director Kunal Structure India Pvt Ltd	Industry	1.460	Completed
34	Design of Job Mix Formula for BM and SDBC	<ul><li>(i) J.K. Jain</li><li>(ii) B.L. Swami</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	RIICO Bhilwara	Govt.	0.573	Completed
35	Testing of Precast RCC Box Culverts	<ul><li>(i) J.K. Jain</li><li>(ii) Vinay Agrawal</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	RIICO Udaipur	Govt.	0.916	Completed
36	Vetting of DPR of sewerage Project phase I under AMRUT	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	Nagar Parishad Gangapur City	Govt.	0.573	Completed
37	Vetting of DPR of Sewerage project Phase I under AMRUT	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	Nagar Parishad Churu	Govt.	0.573	Completed



		(i) Sandeep	ExEn			
	Testing of Steel Bars of	Chaudhary	PHED			
38	six number of dia	(ii) Sandeep Shrivastava	Project	Govt.	0.573	Completed
		(iii) Rajesh Gupta	Division			
		(iv) R.S. Mandolia	Bassi			
	Short Term Training		Participants			
	Program on "Building		of Short			
39	Materials Characterization	Sandeep Chaudhary	Term	Govt.	0.510	Completed
	and Testing" from June		Training			
	06-June 10, 2016		Program			
	Short Term Training		Participants			
	Program on "Building		of Short			
40	Materials Characterization	Sandeep Chaudhary	Term	Govt.	0.030	Completed
	and Testing" from June		Training			
	06-June 10, 2016		Program			
	Proof Checking of design	(i) Sandeep				
	of Anchor Piles and	· / -	Rachana			
41	method statement for	Chaudhary	Constructio	Industry	0.633	Completed
	initial load test for the	(ii) Rajesh Gupta	n Company			
	work of Four Lane ROB	(iii) Ravindra Nagar				
	in Lieu of L.C.102/2E					
	Jahota on Jaipur Sikar					
	Railway Line					
	Testing of Coarse	(i) Sandaar				
	Aggregates from five	(i) Sandeep	TDI GLICO			
42	different sources, fine	Chaudhary	TPL SUCG	Industry	1.603	Completed
	aggregate and design mix	(ii) Rajesh Gupta	Consortium			
	(M25)	(iii) Y.P. Mathur				
			Resident			
	Job Mix for GSB/ WBM/	(i) Y.P Mathur	Engineer		0.555	a
43	43 WMM	(ii) Gunwant Sharma	Div V	Govt.	0.575	Completed
		(iii) Pawan Kalla	RHB Jaipur			
	Safety audit of Lambia-	(i) B.L. Swami	C D L A			
44	Raipur of NH-458 (Km.	(ii) Gunwant Sharma	G.R Infra	Industry	1.438	Completed
	163.00 to Km. 216.600)	(iii) Arun Gaur	Projects Ltd			_
	, ,					



45	Short Term Training Program on "Building Materials Characterization and Testing" from June 06-June 10, 2016	Sandeep Chaudhary	Participants of Short Term Training Program	Govt.	0.210	Completed
46	Proof checking of designs and drawings of ROB at Km. 23/11-12 (Shahdra- Shamli Section), at RLY Km 33.750 (EPE Ch. 44+975), at RLY Km 33.750 & at RLY Km 33+750.	<ul> <li>(i) Rajesh Gupta</li> <li>(ii) Sandeep</li> <li>Chaudhary (iii)</li> <li>Ravindra Nagar</li> <li>(iv) Vinay Agrawal</li> </ul>	Chief Project Coordinator Sadbhav Engineering	Industry	6.870	Completed
47	Proof check for design and drawings of foot over bridges at Kosli and Chakrani Dadri railway stations	<ul><li>(i) Ravindra Nagar</li><li>(ii) Rajesh Gupta</li><li>(iii) Sandeep</li><li>Chaudhary</li></ul>	Rail Vikas Nigam Ltd	PSU/ Industry	1.718	Completed
48	Load testing of Ridhhi Siddhi High Level Bridge	<ul><li>(i) Ravindra Nagar</li><li>(ii) Rajesh Gupta</li><li>(iii) Sandeep</li><li>Chaudhary</li></ul>	JDA	Govt.	5.750	Completed
49	Renovation of Old Railway Bridge Bharatpur - Mathura Marg	<ul><li>(I) B.L. Swami</li><li>(ii) Gunwant Sharma</li><li>(iii) Arun Gaur</li></ul>	Ex En RUSDIP	Govt.	0.575	Completed
50	Rehabilitation and Upgradation of Bahraich to Rupaidha Section of NH-28C 99.000 TO 150.200	<ul><li>(I) B.L. Swami</li><li>(ii) Gunwant Sharma</li><li>(iii) Arun Gaur</li></ul>	G.R Infra Projects Ltd	Industry	1.438	Completed
51	Performing Soil Bearing Capacity Test at Bhadra for STP & SPS Location	<ul><li>(i) Rajib Sarkar</li><li>(ii) M.K. Jat</li><li>(iii) Mahender</li><li>Choudhary</li></ul>	M/s Montecarlo Ltd	Industry	1.603	Completed
52	Technical guidance for civil works	<ul><li>(i) J.K. Jain</li><li>(ii) Gunwant Sharma</li><li>(iii) Pawan Kalla</li></ul>	RIICO Sikar	Govt.	0.916	Completed



	53	Technical advice for road work.	<ul><li>(i) J.K. Jain</li><li>(ii) Gunwant Sharma</li><li>(iii) Pawan Kalla</li></ul>	RIICO Bhilwara	Govt.	0.575	Completed
-	54	Concrete Mix Design of M-25 and testing of steel 6 No.	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li><li>(iii) Rajesh Gupta</li></ul>	AEN CPWD Jaipur	Govt.	0.575	Completed
-	55	Revised proff checking of bottling plant	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	SKP Buildcon Pvt Ltd	Industry	0.575	Completed
	56	Job Mix for GSB, WMM	<ul><li>(i) J.K. Jain</li><li>(ii) Gunwant Sharma</li><li>(iii) Pawan Kalla</li></ul>	RHB Jaipur	Govt.	0.575	Completed
	57	Design of CC Pavement	<ul><li>(i) J.K. Jain</li><li>(ii) Gunwant Sharma</li><li>(iii) Pawan Kalla</li></ul>	RIICO Jaipur	Govt.	1.718	Completed
	58	Proof Checking of designforEWSapartmentproject for Arihant DreamInfraProjectsLimited atHanuman Vatika, Foner	(i) Sumit Khandelwal (ii) Gunwant Sharma (iii) Vinay Agarwal	M/s Arihant Dream Infra Projects Ltd	Industry	1.385	Completed
	59	Proposed vented causeway between Jagatpura Mahal Road & Sitapura PHase - III, Jaipur	<ul> <li>(i) B.L Swami</li> <li>(ii) Y.P. Mathur</li> <li>(iii) Gunwant</li> <li>Sharma (iv)</li> <li>Vinay Agrawal</li> </ul>	Sr DGM RIICO EPIP SIA Jaipur	Govt.	0.978	Completed
·	60	Design of overlay thickness of roads at I/A Hamirgarh, Bhilwara	<ul> <li>(i) B.L Swami</li> <li>(ii) Arun Gaur</li> <li>(iii) J.K. Jain</li> <li>(iv) Gunwant</li> <li>Sharma</li> </ul>	Sr Regional Manager RIICO Bhilwara	Govt.	0.912	Completed
	61	Vetting of Structural Drawings of RCC S.R. 300kL and C.W.R. 750kL at Singhal SNG City, Mahala, Dist. Jaipur	<ul><li>(i) Vinay Agrawal</li><li>(ii) Y.P Mathur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	M/s Shree Kana Ram Yadav	Industry	0.575	Completed



62	Tesitng of Density and Bitumen content	<ul><li>(i) J.K. Jain</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	M/s Kunal Structure (I) Pvt Ltd	Industry	1.208	Completed
63	Testing of DBM & BC Mix design with VG-30 I/AS Karoli, Bhiwadi	<ul><li>(i) B.L Swami</li><li>(ii) Arun Gaur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	M/s Kunal Structure (I) Pvt Ltd	Industry	0.575	Completed
64	Testing of aggregates physical properties I/A Karoli, Bhiwadi	<ul><li>(i) B.L Swami</li><li>(ii) Mahendra</li><li>Choudhary</li><li>(iii) Gunwant Sharma</li></ul>	M/s Kunal Structure (I) Pvt Ltd	Industry	0.575	Completed
65	Technical Consultancy for Civil Works (Road and Drain)	<ul><li>(i) Arun Gaur</li><li>(ii) J.K. Jain</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	RIICO	Govt.	1.150	Completed
66	Quality Assurance of RHB project at Pratap Nagar, Jaipur	<ul><li>(i) Arun Gaur</li><li>(ii) B.L. Swami</li><li>(iii) Gunwant Sharma</li></ul>	Rajasthan Housing Board	Govt.	0.575	Completed
67	Testing of Bitumen Grade VG-30 for I/A Karoli, Bhiwadi	<ul><li>(i) B.L Swami</li><li>(ii) J.K. Jain</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	M/s Kunal Structure (I) Pvt Ltd	Industry	0.575	Completed
68	Suggesting the corrective measures to be adopted for making the building of College of Agriculture, Fatehpur-Shekhawati (Sikar) structurally fit	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	Sri karan Narendre Agriculture University, Jodhpur	Industry	0.973	Completed
69	Proof checking of design and drawing of high level bridge from Hisampur to Baghera on Dai river	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	Ex En, Pwd Div- Todarai Singh	Govt.	1.725	Completed
70	Vetting of ESR, CWR, PH, SITC and PLJTC of WTP	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	M/s Offshore Infrastructure Limited Mumbai	Industry	1.725	Completed



		(i) M.K Shrimali	Strength			
71	Proof Checking of RoB at	(ii) S.D. Bharti	Engineering	Industry	1.150	Completed
/ 1	Piran Kaliyar, Haridwar	(iii) Gunwant	Services Pvt	maasa y	1.150	Completed
		Sharma	Ltd, Jaipur			
	Proof checking of	(i) Rajesh Gupta	M/s Shri			
72	Structural Drawings and	(ii) Sandeep	Ajay Gupta,	Industry	1.725	Completed
12	Design of RCC 18 meter	Chaudhary	Sr Regional	muusti y	1.723	Completed
	span Bridge at Ghiloth	(iii) J.K. Jain	Manager			
			Dept of			
		(i) Mahesh Kumar	Watershed			
	Application of Geo-spatial	~	Developme			
73	Techniques for Watershed	Jat (ii) Mahender	nt & Soil	Govt.	13.800	Completed
	Development and Managamenet	× /	Conservation,			
	Managamenet	Chaudhary	Govt. Of			
			Rajasthan			
	Strength (Rebound	(i) Vinay Agrawal				
	hammer testing of about	(ii) Sandeep	M/s R.R.			
74	800 columns) /stability	Chaudhary	Soni	Ter das sterra	7.475	Commisted
/4	analysis of RCC structure	(iii) Rajesh Gupta	Member,	Industry	7.473	Completed
	[Superspeciality Hospital	(iv) Ravindra Nagar	MGU Jaipur			
	at MGH, Jaipur]	(v) Gunwant Sharma				
		(i) Vinay Agrawal	M/s			
	Vetting of Structural	(ii) Sandeep	M/s Pratibha			
75	Drawings of 04 Nos.	Chaudhary		Industry	0.920	Completed
	ESR's	(iii)Rajesh Gupta	Industries			
		(iv) Ravindra Nagar	ltd			
	Stability analysis of PCC	(i) Vinay Agrawal	WPIL-			
76	6 Stability analysis of RCC (ii structures as mentioned in	(ii) Y.P Mathur	SMS, JV	Industry	2.300	Completed
/0	the letter	(iii) Gunwant	84/1A	muusu y	2.300	Completed
		Sharma	07/1A			
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77	ProofcheckingofstructuraldesignanddrawingsfordifferentstructuresunderRWSSof283villagesofDeed&Nagar,TehsilDeeg&Nagartoworkunderpackage-IICDBPW/S(Cluster distribution).	<ul> <li>(i) S.K. Tiwari</li> <li>(ii) Sandeep</li> <li>Chaudhary</li> <li>(iii) Rajesh Gupta</li> <li>(iv) Gunwant</li> <li>Sharma</li> </ul>	STS (p) Ltd. Jaipur	Industry	2.000	Completed
78	Consultancy for Work of Rajgarh Water Supply Project	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	M/s A.B. Entp & Deen Const Co. Pvt Ltd JV	Industry	0.863	Completed
79	Recruitment exam to be conducted for Engineering/ Scientist posts.	<ul><li>(i) Rohit Goyal</li><li>(ii) A.B. Gupta</li><li>(iii) Awadhesh Kumar</li></ul>	Confidential	Govt.	22.500	Completed
80	ProofCheckingofabutmentsof structureatCH. 77+780of PawwanooSolan& ChhapraGopalganj (NH-85)	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	M/s GR Infra Projects Ltd, New Delhi	Industry	1.725	Completed
81	Application of Geo-spatial Techniques for Watershed Development and Managamenet	<ul><li>(i) M.K. Jat</li><li>(ii) Mahender</li><li>Choudhary</li></ul>	Dept of Watershed Developme nt & Soil Conservation, Govt of Rajasthan	Govt.	0.690	Completed
82	Stability and serviceability issues at MIDB hostel at MGD Girls' School	<ul> <li>(i) Sumit Khandelwal</li> <li>(ii) Sandeep Chaudhary</li> <li>(iii) Rajesh Gupta</li> </ul>	MGD Girls School	Private	2.013	Completed
83	Mix Design (M30), Proof checking of Structural Drawing of RCC SR 500kL and SPT at UWSS Jamdoli, Jaipur	(i) Vinay Agarwal (ii) Rajesh Gupta (iii) S.K. Tiwari	Mr. Hari Mohan Meena Contractor	Industry	1.380	Completed



84	Inspection of ROB at Hindaun AT lc nO 201	<ul><li>(i) Ravindra Nagar</li><li>(ii) Sandeep</li></ul>	IRCON International	PSU	1.150	Completed
		Chaudhary (iii) Rajesh Gupta	Ltd.			
85	Proof checking of design of construction of elevated road from Sodala tri junction to LIC office near Ambedkar circle, Jaipur	<ul> <li>(i) Ravindra Nagar</li> <li>(ii) Sandeep</li> <li>Chaudhary</li> <li>(iii) Rajesh Gupta</li> </ul>	JDA	Govt.	28.750	Completed
86	Designing, and drawing of Cross Regulator at RD 583.250 of Indira Gandhi Feeder	<ul><li>(i) S.K Tiwari</li><li>(ii) Gunwant Sharma</li><li>(iii) Sandeep</li><li>Chaudhary</li></ul>	M/S Dayanand Contractor	Industry	4.600	Completed
87	Proof Checking of design and drawing of structures of work of regional water supply scheme of 334 villages of Banswara and Pratapgarh district	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li><li>(iii) Rajesh Gupta</li></ul>	M/S L&T Construction	Industry	2.415	Completed
88	Preparation of Structural Drawings for Construction of Incubation Centre at MNIT, JLN Marg, Jaipur	<ul> <li>(i) Vinay Agrawal</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Sandeep</li> <li>Chaudhary</li> <li>(iv) Rajesh Gupta</li> </ul>	Ex En MNIT Project Division CPWD	Govt.	2.300	Completed
89	ProofcheckingofpavementdesignofChhapraRewaghatMuzzarfarpur (NH-102) &Harike-Faridkot-BathindaNH-15 (New NH-54)	<ul><li>(i) B.L Swami</li><li>(ii) Gunwant</li><li>Sharma</li><li>(iii) Sudhir Kumar</li></ul>	GR Infra Projects Ltd. New Delhi	Industry	1.150	Completed
90	Geotechnical Investigationreport for construction ofproposedIncubationCentrenearCivilEngineering Department	(i) S.K Tiwari (ii) Pawan Kalla	Ex En MNIT Project Division CPWD	Govt.	3.450	Completed



91	Concrete Mix Design of M25 for work of Incubation Center at MNIT Jaipur	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Vinay Agrawal</li> <li>(iii) Ravindra Nagar</li> <li>(iv) Rajesh Gupta</li> </ul>	Ex En MNIT Project Sub Division CPWD	Govt.	0.575	Completed
92	Stability monitoring of proper laying of PSCC pipeline in the Chambal Sawai Madhopur Water Supply Project	<ul> <li>(i) Sanjay Mathur</li> <li>(ii) Vinay Agrawal</li> <li>(iii) Mahender</li> <li>Chaudhary</li> <li>(iv) Rajesh Gupta</li> </ul>	The Chief Engineer (SP)	Govt.	3.335	Completed
93	Proof checking of bridge widening at Bambala	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	Strength Engineering Services Pvt Ltd	Industry	1.150	Completed
94	Consultancy charges for design of overlay thickness for roads of I/A Sardarsahar, Distt. Churu	<ul><li>(i) B.L. Swami</li><li>(ii) J.K. Jain</li><li>(iii) Arun Gaur</li></ul>	Sr. Regional Manager, RIICO	Govt.	0.916	Completed
95	Testing of coarse aggregate for proposed I/A Karoli, Bhiwadi	<ul> <li>(i) B.L. Swami</li> <li>(ii) Gunwant</li> <li>Sharma</li> <li>(iii) Mahender</li> <li>Choudhary</li> </ul>	Kunal Structure (India) Pvt. Ltd.	Industry	0.575	Completed
96	Geo-spatial Technologies and their application for Senior WDWSC Officials	(i) M.K. Jat (ii) Sudhir Kumar	Dept. of Watershed Development & Soil Conservation	Govt.	5.520	Completed
97	Vetting of Structural Drawings of Box Culverts (1250mm long)	<ul><li>(i) Vinay Agrawal</li><li>(ii) Y.P Mathur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	M/S Ganpati Pipe Industries	Industry	0.575	Completed
98	TestingofBC,DBM,Core&AggregateSamples	<ul><li>(i) J.K. Jain</li><li>(ii) Gunwant Sharma</li><li>(iii) Pawan Kalla</li></ul>	NHAI, Chittorgarh	PSU	1.880	Completed



99	Testing of BC & DBM Core Samples & Bitumen	<ul><li>(i) J.K. Jain</li><li>(ii) Gunwant Sharma</li><li>(iii) Pawan Kalla</li></ul>	Frichmann Prabhu India Pvt Ltd	Industry	0.799	Completed
100	Wideningandstrengthening of Dausa toKuchmanviaLawan-Tunga-Chaksu-Phagi-Dudu-Sambhar(SH-02)Km. 25/0 to 54/0	<ul><li>(i) B.L. Swami</li><li>(ii) Gunwant</li><li>Sharma</li><li>(iii) Arun Gaur</li></ul>	Ex. En PWD Div Chaksu Jaipur	Govt.	1.323	Completed
101	Proof checking of design and drawing of ROB at CH. 1+440 of Northern Kota Bypass (Railway Km 9/16-17) both side nearest railway station Chandresal – Digod and between Kota-Bina Section	<ul> <li>(i) Rajesh Gupta</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Sandeep</li> <li>Chaudhary</li> <li>(iv) Vinay Agrawal</li> </ul>	Design Director Infrabuild Projects Pvt Ltd	Industry	1.725	Completed
102	Inspection of three damaged OHSR's and one CWR in Alwar City	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii) Sumit</li><li>Khandelwal</li></ul>	Ex En, PHED Alwar	Govt.	1.380	Completed
103	Consultancy charges for the Road Safety of Mega Highways for Phase-I, II, and III.	<ul><li>(i) B.L. Swami</li><li>(ii) Gunwant</li><li>Sharma</li><li>(iii) Arun Gaur</li></ul>	Chief Executive (RIDCOR)	Industry/ PSU	2.875	Completed
104	Consultancy charges for quality inspection of the work of Development of Infrastructure at I/A Karoli Bhiwadi	<ul><li>(i) B.L. Swami</li><li>(ii) Gunwant</li><li>Sharma</li><li>(iii) M.K. Jat</li></ul>	The SRM RIICO Ltd Unit II	Govt.	1.955	Completed
105	Proof Checking of two RoBs on Khimel-Falna Section at Madhar Palanpur Ajmer section	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	Ajay Chetan (JV)	Industry	3.450	Completed



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	106	vetting of Structural Design of 1.5 MLD STP of Bagrana Kacchi Basti under Rajiv Avas Yojana, Agra Road, Jaipur	<ul><li>(i) S.D. Bharti</li><li>(ii) M.K Shrimali</li><li>(iii) P.V. Ramana</li></ul>	M/s R4 Systems, Vaishali Nagar, Jaipur	Industry	0.575	Completed
	107	Mix Design (M35) and Proof Checking of Design & Drawings of RCC SR 1300 KL at UWSS Kekri Under Uidssmt, Dist. Ajmer	<ul> <li>(i) Vinay Agrawal</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Sandeep</li> <li>Chaudhary</li> <li>(iv) Rajesh Gupta</li> </ul>	M/s Kailash Chand Chaudhary	Industry	0.575	Completed
	108	Core testing	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li></ul>	Garrison Engineer (AF)	Govt.	0.863	Completed
	109	Proof Checking of Design & Drawings of RCC SR 1300 KL at UWSS	<ul><li>(i) Y. P. Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) S.D. Bharti</li></ul>	A. B. Enterprises Pvt Ltd	Industry	0.920	Completed
	110	Mix Designs for Ultratech Cement Site at Kotputli	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li><li>(iii) Rajesh Gupta</li></ul>	KBM Constructio n Pvt Ltd	Industry	1.725	Completed
	111	Soil Investigations for ESR/CWR at Bonli, Sawai Madhopur and proof checking of structural designs and drawings of ESR and CWR	<ul><li>(i) Rajesh Gupta</li><li>(ii) Sandeep</li><li>Chaudhary</li><li>(iii) S.K. Tiwari</li></ul>	M/s Balaji Constructio n Co	Industry	2.070	Completed
	113	Vetting of DPR for wastewater treatment Plant at Neemkathana	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	Nagarpalika Neemka Thana, Sikar	Govt.	0.863	Completed
	114	Testing of Box Culverts	(i) Vinay Agarwal (ii) Y.P. Mathur (iii) Gunwant Sharma	Sr. Regional Manager, RIICO, Bhiwadi	Govt.	3.680	Completed



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	115	Proof checking of design and drawing of water filtration plant of capacity 1000 m3/day at Jaisalmer under Commander Work Engineer (AF).	<ul><li>(i) S. K. Tiwari</li><li>(ii) Y.P. Mathur</li><li>(iii) Pawan Kalla</li></ul>	M/s Shri Mohangarh Constructio n Company, Jaipur	Industry	0.575	Completed
	116	Mix design of GSB, WMM, PQC, DBM and BC	<ul><li>(i) Arun Gaur</li><li>(ii) B.L. Swami</li><li>(iii) Gunwant Sharma</li></ul>	PWD, Rajasthan	Govt.	1.323	Completed
	117	Mix Design M30 including Proof Checking of SR 50 &100 KL at F&V MANDI Kotputli	(i) Vinay Agarwal (ii) R.C. Gupta (iii) Pawan Kalla	RJ Group & Agencies	Industry	0.575	Completed
	118	Design of Overlay Thickness for Road Work	<ul><li>(i) J. K. Jain</li><li>(ii) B.L. Swami</li></ul>	RIICO, Jaipur (Rural)	Govt.	1.438	Completed
	119	Testing of Ballast Samples	(i) Pawan Kalla (ii) A.K. Vyas (iii) J.K. Jain	Superintedent Of Police CBI, Jaipur	Govt.	0.575	Completed
	120	Structural Audit of ESIC Dispensary, Bhilwara	<ul> <li>(i) Sumit</li> <li>Khandelwal</li> <li>(ii) Sandeep Chaudhary</li> <li>(iii) Rajesh Gupta</li> <li>(iv) Nivedita Kaul</li> </ul>	Dy Director (PMD)ESIC	Govt.	2.863	Completed
-	121	Proof Checking of designofPipeSupportArrangement of Udaipuriaintake well	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	L&T Construction	Industry	0.575	Completed
	122	Inspection for quality control during the execution of works related to water supply scheme and rain water harvesting (04 Nos. visits) at site for the work of "Development of Infrastructure at Proposed Industrial Area Karoli, Bhiwadi, Dist. Alwar	(i) Vinay Agrawal (ii) Y.P Mathur (iii) Gunwant Sharma	Sr. Regional Manager, RIICO Bhiwadi	Govt.	1.984	Completed



123	Vetting of Structural Drawings of RCC SR & CWR of 100 & 200KL capacity at Jaipur Testing of Soil, GSB and WMM samples	<ul> <li>(i) Vinay Agarwal</li> <li>(ii) R.C. Gupta</li> <li>(iii) Sumit</li> <li>Khandelwal</li> <li>(i) J.K. Jain</li> <li>(ii) Gunwant Sharma</li> <li>(iii) Pawan Kalla</li> </ul>	M/s Surendra Kumawat Consulting Engineers Group Ltd.	Industry Industry	0.575 6.072	Completed
125	Consultancy charges for Proof checking of FWD test and witnessing for Chhapra-Gopalganj section of NH-85 & Chhapra-Rewaghat- Muzzafarpur of NH- 102	<ul><li>(i) B.L. Swami</li><li>(ii) Arun Gaur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	GR Infra Projects Ltd. New Delhi	Industry	1.150	Completed
126	Safety audit of Suratgarh Sriganganagar NH-62 total Km. 68.55	<ul><li>(i) B.L. Swami</li><li>(ii) Arun Gaur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	GR Infra Projects Ltd. New Delhi	Industry	1.438	Completed
127	Concrete Mix Design (M35 and M40) and other relevant tests for construction of elevated road from soadala ti junction to LIC Office near Ambedkar Cricle, Jaipur	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Rajesh Gupta</li> <li>(iv) Vinay Agrawal</li> </ul>	Simplex Infrastructure Limited, Jaipur	Industry	1.783	Completed
128	Proof Checking of Design of Anchor Piles and method statement for initial load test	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li><li>(iii) Rajesh Gupta</li></ul>	Ajay Engi Infrastructure Pvt Ltd	Industry	0.575	Completed
129	Proof Checking of Structural Design and Drawing of High Level Bridge on Rive Chandrawati in km51	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li><li>(iii) Rajesh Gupta</li></ul>	M/s Brahm Prakash Modi, PWD Contractor Khetri	Industry	1.725	Completed



130	Technical examination of clear water reservoir at Sector 2, Malviya Nagar, Jaipur	<ul> <li>(i) Rajesh</li> <li>Gupta</li> <li>(ii) Sandeep</li> <li>Chaudhary</li> <li>(iii) Ravindra</li> <li>Nagar</li> </ul>	Ex. En. PHED, City Dn-III (s)	Govt.	0.920	Completed
131	Mix Design (M20 to M35) and Proof Checking of Design & Drawings of OHSR CWR 150, 300, 350, 450, 550, 600, 770, 900, 1210, 1650, 1850 KL at WSS Behror-Tijara, Dist. Alwar	<ul> <li>(i) Vinay Agrawal</li> <li>(ii) Sandeep</li> <li>Chaudhary (iii)</li> <li>Ravindra Nagar</li> <li>(iv) Rajesh Gupta</li> </ul>	M/s Deem Constructio n Co. Pvt Ltd	Industry	1.725	Completed
132	Vetting of Storage Yard Design	<ul><li>(i) Y.P Mathur</li><li>(ii) Vinay Agrawal</li><li>(iii) J.K. Jain</li></ul>	TPL SULS Consortium	Industry	0.863	Completed
133	Proof Checking of DPR	<ul><li>(i) Sanjay Mathur</li><li>(ii) Y.P Mathur</li><li>(iii) P.K. Navin</li></ul>	M/s Vistaar Infratech (I) Pvt Ltd	Industry	0.575	Completed
134	Design of Road from Phool Bagh chowk to Harchandpur T Junction	<ul><li>(i) Arun Gaur</li><li>(ii) Sandeep</li><li>Shrivastava</li><li>(iii) S.K. Tiwari</li></ul>	M/s RIICO Bhiwadi	Govt.	1.150	Completed
135	Proof Checking of RoB at Sagar	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	Prakash Ashpallings & Toll Highway & Bansal Construction Works Pvt Ltd Bhopal	Industry	1.150	Completed
136	Consultancy for design and drawing of 750 kL CWR and Pump House Room and geotechnical investigation (SBC test) in MNIT Campus Jaipur	(i) S.K. Tiwari (ii) Arun Gaur (iii) Sandeep Shrivastava	M/s Yadav Constructio n Co.	Industry	0.750	Completed



137	Proof checking of design & drawing of ROB at Km. 171+382 and Km. 200 + 375 of Faridkot	<ul><li>(i) B. L. Swami</li><li>(ii) Vinay Agrawal</li><li>(iii) Mahendra</li><li>Choudhary</li></ul>	GR Infra Projects Ltd. New Delhi	Industry	1.150	Completed
138	Proof Checking for D&D of ROBs and HFL Bridges	(i) S.K. Tiwari (ii) Rosalin Sahoo (iii) Arun Gaur	M/s Thought Consultants Jaipur Pvt Ltd	Industry	4.600	Completed
139	Vetting of RE wall for construction of ROB with approaches in Lieu of LC No.195-B on Nadoti- Shree Mahaveer Ji- Hindaun Road MDR-67.	<ul><li>(i) S.K. Tiwari</li><li>(ii) Rosalin Sahoo</li><li>(iii) Sandeep</li><li>Shrivastava</li></ul>	Landmark MTRL Pvt Ltd Jaipur	Industry	0.575	Completed
140	Proof Checking of RoB at Dantli	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	Theme Engineering Services Pvt Ltd	Industry	1.150	Completed
141	Mix Design M-30 for c/o Road culvert and sewer line chambers etc. at 944 (G+3) EWS under Rajiv Awas Yojana Buddha Vihar Malviya Nagar, Alwar	<ul><li>(i) Vinay Agrawal</li><li>(ii) Arun Gaur</li><li>(iii) Rajesh Gupta</li></ul>	The Executive Engineer UIT, Alwar	Govt.	0.575	Completed
142	Proof Checking of Temporary Arrangement drawing of Staging for "widening of existing bridge (both side) on JLN marg near Jawahar Nallah World Trade Park, Jaipur"	<ul><li>(i) Vinay Agrawal</li><li>(ii) Ravindra Nagar</li><li>(iii) Rajesh Gupta</li></ul>	M/s Shree Ram Kripa Constructio n jaipur	Industry	0.748	Completed
143	Mix Design M30 for Ultratech Cement Site at Kotputli	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li><li>(iii) Rajesh Gupta</li></ul>	K B Mehta Private Ltd.	Industry	0.575	Completed



144	Concrete Mix Design M25 for the work of construction of Hostel Building at CTC(ITBP) Alwar	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li><li>(iii) Rajesh Gupta</li></ul>	WAPCOS Limited	Industry	0.575	Completed
145	Vetting of Structural Drawings of Proposed Extension/Additional c/o Annexe building at Swasthaya Bhawan campus, Jaipur	<ul> <li>(i) Vinay Agrawal</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Sandeep</li> <li>Chaudhary</li> <li>(iv) Rajesh Gupta</li> </ul>	M/s Roopa & co	Industry	0.978	Completed
146	TestingofmaterialCement,SteelandConcretecubeforproposedI/AKaroli,Bhiwadi	(i) B. L. Swami (ii) J.K. Jain (iii) M.K. Jat	M/s Kunal Structure (India) Pvt Ltd	Industry	0.575	Completed
147	Analysis of 220kV/132kV tower material failure reports	(i) S.K. Tiwari (ii) Arun Gaur (iii) Pawan Kalla	Add Chief Engineer (proc) RVPNL Jaipur	Industry	2.300	Completed
148	Consultancy for 3rd party inspection of BRTS-IIIA & IIIB works	<ul><li>(i) S.K. Tiwari</li><li>(ii) Arun Gaur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	EX EN (Project) JDA	Govt.	1.725	Completed
149	Proof checking of Design and Drawing of over head water tank cap. 200 KL/26 m staging at Kishangarh Airport, Kishangarh.	(i) S.K. Tiwari (ii) Arun Gaur (iii) Rajesh Gupta	SGB Infra Ltd Ganga Colony Laxmangarh	Industry	0.575	Completed
150	Proof Checking of Box Culverts across IOC pipe Line at PratapNagar Jaipur	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	Rajasthan Housing Board	Govt.	0.575	Completed
151	Proof checking of RoB (Bassi) LC-200	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	Theme Engineering Services Pvt Ltd	Industry	1.150	Completed



152	Mix design M-45 Grade of concrete for superstructure (PSC Slab or Box girder/I- Girder precast/Cast in- situ).	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Rajesh Gupta</li> <li>(iv) Vinay Agrawal</li> </ul>	Xen/C- II/RGS Office Dy. Chief Engineer / C-IV / JP	Industry	0.690	Completed
153	Vetting of drawing and design of STP at Alwar etc.	<ul><li>(i) Y.P. Mathur</li><li>(ii) Sanjay Mathur</li><li>(iii) Sanjeev</li><li>Agarwal</li></ul>	M/s Malvika Technical Services	Industry	6.440	Completed
154	Proof Checking of Drawings of Pre-Cast Manholes	<ul><li>(i) Y.P. Mathur</li><li>(ii) Sanjay Mathur</li><li>(iii) Mahendra</li><li>Choudhary</li></ul>	GRG Infrastructur e	Industry	0.575	Completed
155	Proof Checking of ESRs, CWRs, pump House, Inspection Bunglow)	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Vinay Agrawal</li></ul>	SPML Infra Limited	Industry	4.025	Completed
156	Proof checking of structural design and drawing of ROB at Rangpur, Kota on LC No. 1-X	(i) Rajesh Gupta (ii) Sandeep Chaudhary (iii) Ravindra Nagar	M/s Pioneer Infra Consultant Pvt Ltd	Industry	1.725	Completed
157	Oen drain Matsya Industrial Area Marble Mandi, Alwar	<ul><li>(i) Y.P. Mathur</li><li>(ii) Sanjay Mathur</li><li>(iii) Mahendra</li><li>Choudhary</li></ul>	RIICO Alwar	Govt.	0.575	Completed
158	Design Mix of M-30 & M-35 grade of concrete and testing of steel bars	<ul><li>(i) Rajesh Gupta</li><li>(ii) S.K. Tiwari</li><li>(iii) Vinay Agrawal</li></ul>	M/s Balaji Constructio n Co	Industry	1.093	Completed
159	12.3 mld stp vetting of drawings and design	<ul><li>(i) Y.P. Mathur</li><li>(ii) Sanjay Mathur</li><li>(iii) Sanjeev</li><li>Agarwal</li></ul>	Advent Envirocare Technology	Industry	6.900	Completed



160	Mix Design (M35) including Proof Checking of Design & Drawing of RCC SR 2000 kL at Murlipura Scheme, Dist. Jaipur	<ul> <li>(i) Vinay Agrawal</li> <li>(ii) Sandeep</li> <li>Chaudhary</li> <li>(iii) Ravindra Nagar</li> <li>(iv) Rajesh Gupta</li> </ul>	M/s Shri Jugal Construction & Supplies	Industry	0.575	Completed
161	Proof Checking of Structural Design and Drawings for the Floor Addition over Mechanical Lab with light gauge steel Frame Structure at south campus at IIT Mandi	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Vinay Agrawal</li> <li>(iii) Ravindra Nagar</li> <li>(iv) Rajesh Gupta</li> <li>(v) Tarush Chandra</li> </ul>	M/s Elemente Designer Homes	Industry	0.633	Completed
162	Vetting of drawing and design 1.5 MLD stp bhiwadi	<ul><li>(i) Y.P. Mathur</li><li>(ii) Sanjay Mathur</li><li>(iii) Sanjeev Agarwal</li></ul>	L & T Jaipur	Industry	1.438	Completed
163	Testing of construction material and design of mix cement concrete M-15 and M-35 grade.	(i) S. K. Tiwari (ii) Gunwant Sharma (iii) J.K. Jain	M/s Dayanand Contractor, Dist. Rohtak, Haryana	Industry	0.575	Completed
164	Proof checking of design and drawing of ROB at CH. 149.900 of NH-758 of NH-758 (Railway Km 99/02-03) between Shyampura – Mandalgarh Railway Stations	<ul> <li>(i) Rajesh Gupta</li> <li>(ii) Sandeep</li> <li>Chaudhary</li> <li>(iii) Ravindra Nagar</li> </ul>	M/s Zignego Company, Inc & GHV (India) Pvt Ltd	Industry	1.150	Completed
165	Testing of aggregates [fine & Coarse (20mm and 10mm)] for specific gravity, water absorption and sieve analysis	<ul><li>(i) Vinay Agrawal</li><li>(ii) Y.P Mathur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	WPIL- SMSJV, 3rd Floor, Trinity Plaza Kolkata	Industry	0.575	Completed
166	Training programs of PHED Rajasthan engineers	(i) A. B. Gupta (ii) Rohit Goyal	WSSD, PHED, Rajasthan	Govt.	34.650	Completed



	Consultancy charges for	(i) B. L. Swami				
167	testing work Cement, Steel and Cube for I/A Karoli, Bhiwadi	(ii) M.K. Jat (iii) Mahendra Choudhary	M/s Kunal Structure	Industry	0.575	Completed
168	Safety Audit of Bagundi- Barmer highway	<ul><li>(i) B.L Swami</li><li>(ii) Arun Gaur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	GR Infra Projects Ltd	Industry	1.438	Completed
169	Consultancy and Mix design of various works at Balotara	<ul><li>(i) Arun Gaur</li><li>(ii) B.L. Swami</li><li>(iii) Sandeep</li><li>Shrivastava</li></ul>	RIICO, Balotra	Govt.	0.920	Completed
171	Proof checking of design and drawings of R.E. wall	(i) S. K. Tiwari (ii) Pawan Kalla (iii) J.K. Jain	Shree Gautam Constructio n Co Ltd	Industry	0.575	Completed
172	Technical evaluation work of Eklavya Model Residential School at Bassi district Jaipur	<ul><li>(i) Sumit</li><li>Khandelwal</li><li>(ii) Nivedita Kaul</li><li>(iii) Sandeep</li><li>Chaudhary</li></ul>	Commission er Tribal Area Rev. Dept.	Govt.	5.175	Completed
173	Self Financed Short Term Training Program on Precast and Prefabricated Buildings from December 26-30, 2016	(i) Sandeep Chaudhary (ii) Ravindra Nagar	Participants As per List Overdraft c/o STTP	Govt.	0.290	Completed
174	IWRM Plan for KBNIR in Rajasthan	<ul><li>(i) Rohit Goyal</li><li>(ii) A.B. Gupta</li><li>(iii) Sandeep</li><li>Shrivastava</li></ul>	CH2M Hill (India) Pvt Ltd	Industry	2.185	Completed
175	Self Financed Short Term Training Program on Precast and Prefabricated Buildings from December 26-30, 2016	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li></ul>	Participants As per List Overdraft c/o STTP	Govt.	0.410	Completed



176	Self Financed Short Term Training Program on Precast and Prefabricated Buildings from December 26-30, 2016	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li></ul>	Participants As per List Overdraft c/o STTP	Govt.	0.500	Completed
177	Road safety audit of sign boards and hoardings at Sri Ganganagar	<ul><li>(i) B.L. Swami</li><li>(ii) Arun Gaur</li><li>(iii) J.K. Jain</li></ul>	Secretary Nagar Vikas Nyas Shri Gangannagar	Govt.	0.920	Completed
178	Testing of cores for Precast box cell culvert for Development of Infrastructure at Proposed Industrial Area Karoli, Bhiwadi, District-Alwar Rajasthan	<ul><li>(i) Vinay Agrawal</li><li>(ii) Y.P Mathur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	M/s Kunal Structure India Pvt Ltd	Industry	0.690	Completed
179	Submission of Detailed technical investigation and quality assessment of damage PSC Girder at LC 165 Saran Nagar Jodhpur	<ul><li>(i) Ravindra Nagar</li><li>(ii) Sandeep</li><li>Chaudhary</li><li>(iii) Rajesh Gupta</li></ul>	Project Director RUDSCIO	Govt.	1.725	Completed
180	Mix design of M35 and M25 grade of concrete for WSS/PHED Project/NCR, Alwar/Bhiwadi- for the work of "Providing, laying, jointing, testing & commissioning of pipe line for distribution system and rising main, construction and commissioning of reservoirs	<ul> <li>(i) Vinay Agrawal</li> <li>(ii) Sandeep</li> <li>Chaudhary</li> <li>(iii) Ravindra Nagar</li> <li>(iv) Rajesh Gupta</li> </ul>	WPIL SMS JV	Industry	0.633	Completed



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181	Design of main roads at I/A Ramchandrapura (Sitapura Ext.), Jaipur	<ul><li>(i) B.L. Swami</li><li>(ii) Arun Gaur</li><li>(iii) J.K. Jain</li></ul>	Regional Manager RIICO Jaipur	Govt.	1.725	Completed
182	Twi STP Projects 3 mldat Bhiwadi	<ul><li>(i) Y.P Mathur</li><li>(ii) Vinay Agrawal</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	VBE Projects Pvt Ltd	Industry	3.450	Completed
183	Concrete Mix Design for M15, M35, M45 and M50 grade	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Ravindra Nagar</li><li>(iii) Rajesh Gupta</li></ul>	Simplex Infrastructur e Limited	Industry	1.495	Completed
184	Steel Testing (07 No) for Construction of Medical College Campus in Dungarpur	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Rajesh Gupta</li> <li>(iv) Vinay Agrawal</li> <li>(v) R.S. Mandolia</li> </ul>	NBCC India Ltd	Industry	0.690	Completed
185	Aggregate Testing for the Project: Widening & Strengthening of Uncha Nagla – Khanuawa – Roppas – Dholpur section of NH-123 (length 75.008 km) 2-lane with paved shoulders under NHDP Phase-IV in the state of Rajasthan/Uttar Pradesh on EPC mode.	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Rajesh Gupta</li> <li>(iv) Vinay Agrawal</li> </ul>	H.G Infra Engineering Pvt. Ltd.	Industry	0.610	Completed
186	S.B.C. (Standard Penetration Test) for overhead service reservoir at Purani Kachari for urban water supply scheme at Hindaun City, Dist. Karauli	<ul><li>(i) Vinay Agrawal</li><li>(ii) Gunwant Sharma</li><li>(iii) S.K. Tiwari</li></ul>	The Executive Engineer PHED Hindaun City	Govt.	0.920	Completed



187	Consultancy monitoring and stage verification for work of planning designing and execution of modren warehouseing facility at Raisinghnagar and Gharsana (District Ganganagar)	<ul> <li>(i) Ravindra Nagar</li> <li>(ii) Sandeep</li> <li>Chaudhary</li> <li>(iii) Rajesh Gupta</li> </ul>	M.D Rajasthan State Warehousin g Corporation	Govt.	4.600	Completed
188	TechnicalAdviceForQualityAssessment	<ul><li>(i) J.K Jain</li><li>(ii) Gunwant Sharma</li></ul>	RHB Div V Jaipur	Govt.	0.690	Completed
189	Job mix for DBM & BC	<ul><li>(i) J.K Jain</li><li>(ii) Pawan Kalla</li></ul>	RIICO Ltd Bhilwara	Govt.	0.575	Completed
190	Testing of box culvert at site	<ul><li>(i) J.K Jain</li><li>(ii) Pawan Kalla</li></ul>	M/s Ganpati Pipe Industries	Industry	0.575	Completed
191	Proof checking scaffolding design and drawing for CWR roof slab	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Rajesh Gupta</li> <li>(iv) Sumit</li> <li>Khandelwal</li> </ul>	L & T	Industry	0.610	Completed
192	Mix design of M35 and M25 grade of concrete for the work of "Providing, laying, jointing, testing & commissioning of pipe line for distribution system and rising main, construction and commissioning of elevated service reservoirs & providing pumping sys	(i) Vinay Agarwal (ii) Gunwant Sharma	The Executive Engineer PHED Div. Bhiwadi NCR	Govt.	0.598	Completed
193	Mix design of M25 and M30 grade for construction of 12.3MLD CETP with ZLD at Muhana Road, Sanganer, Jaipur	(i) Vinay Agarwal (ii) Y.P. Mathur	M/s Advent Envirocare Technology Pvt Ltd	Industry	0.633	Completed

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194	Proofcheckingofstructuraldesign&drawingofCrashforBridgeNo.2 (ROB)forprivateRailwaySidingforIntegratedCement(ii)94PlantatRabriyawasofN/sAmbujaCements(iii)VinayAgrawaLtd., takingofffromRASKashKash		R. P. Soni, AVP (Capex)	Industry	0.575	Completed
	Station on New Bangurgram – Ras Railway line in Ajm					
195	Proof checking of Road crust	<ul><li>(i) Arun Gaur</li><li>(ii) Gunwant Sharma</li><li>(iii) J.K. Jain</li></ul>	RSRDC	Govt.	0.920	Completed
196	Job Mix design for GSB and WMM	<ul><li>(i) Arun Gaur</li><li>(ii) B.L. Swami</li><li>(iii) Sandeep</li><li>Shrivastava</li></ul>	XEN, CPWD, Jammu	Govt.	0.575	Completed
197	Proof checking of structural design and drawing of substructures and foundations of RGS Detour in connection with DFCCIL work - Construction of viaduct (164x18.3m) PSC Girders, 5x18.30 m PSC Girders on Minda River + 3x18.30 m composite girder on RPC and D	<ul><li>(i) Rajesh Gupta</li><li>(ii) Ravindra Nagar</li><li>(iii) J.K. Jain</li></ul>	Project Director, MHK ATPLT (JV)	Industry	5.750	Completed
198	vetting of structural drawing of "Construction of drain along Runway 09- 27 and disused Runway 15-23 in Operational Area at CA Jaipur"	<ul><li>(i) Vinay Agrawal</li><li>(ii) Y.P Mathur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	M/s Khairati Lal	Industry	1.495	Completed



199	Proof checking of structural design and drawings of Thapara Bridge on Anas River in Banswara on Chordi Choraha – Kuba – Anandpuri Road	<ul><li>(i) Rajesh Gupta</li><li>(ii) Sandeep</li><li>Chaudhary</li><li>(iii) Ravindra Nagar</li></ul>	Ex. En. PWD	Govt.	2.300	Completed
200	Quality Assessment of ongoing/completed works.	<ul><li>(i) J.K. Jain</li><li>(ii) Gunwant Sharma</li><li>(iii) Pawan Kalla</li></ul>	RHB, Div- 1, Jaipur	Govt.	0.690	Completed
201	Vetting of drawing and design of check dam and profile wall	<ul><li>(i) Y.P Mathur</li><li>(ii) Vinay Agrawal</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	Tata Projects Ltd.	Industry	1.093	Completed
202	Testing of compressive strength of core of P.Q.C (M-40).	<ul><li>(i) Sandeep</li><li>Chaudhary (ii)</li><li>Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	EX EN, PWD Division, Jhalawar	Govt.	0.575	Completed
203	Design of Overlay Thickness for roads of I/A PPMP, Ajmer	<ul><li>(i) J. K. Jain</li><li>(ii) B.L. Swami</li></ul>	RIICO Ltd. Ajmer	Govt.	1.438	Completed
204	Proof Checking and Vetting the consultancy of restoration of exsisting bridge approaches at Ganda Nala, Gopal Pura By Pass, Jaipur	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	EX EN, 5 JDA Jaipur	Govt.	1.725	Completed
205	Testing of Coarse Aggregates and Fine Aggregates for Petrographic Analysis (05 types of samples)	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Rajesh Gupta</li> <li>(iii) Sumit</li> <li>Khandelwal</li> </ul>	PNC Rajasthan Highway Projects	Industry	1.725	Completed
206	Proof       checking       of       (i)       Rajesh G         structural       design       and       (ii)       Vinay Ag		Project Director RSRDC Ltd	Govt.	2.875	Completed



207	Benkel beam deflection study, Bump Integrator and axle load test	<ul><li>(i) B. L. Swami</li><li>(ii) Arun Gaur</li></ul>	M/s Varaha Infra Ltd Jodhpur	Industry	1.725	Completed
208	Mix design of M25 and M30 grade for construction of 12.3MLD CETP with ZLD at Muhana Road, Sanganer, Jaipur	<ul><li>(i) Vinay Agrawal</li><li>(ii) Y.P Mathur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	M/s Advent Envirocare Technology Pvt Ltd	Industry	0.633	Completed
209	Testing of Soil	(i) B. L. Swami (ii) J.K. Jain	The Project Director, NHAI	Govt.	0.583	Completed
210	Concrete mix design M-25 for the work of construction of Hostel Building at CTC (ITBP) Alwar (Rajasthan).	<ul><li>(i) Sandeep</li><li>Chaudhary</li><li>(ii) Rajesh Gupta</li><li>(iii) Sumit</li><li>Khandelwal</li></ul>	Wapcos Limited	Industry	0.575	Completed
211	Feasibility study of ESRs at Pali	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	Vishnu Prakash R. Punglia Ltd	Industry	2.300	Completed
212	Mix Design (M30) including Proof Checking of Design & Drawing of RCC SR 50kL at Sub Yard Shahpura Under Kums Jaipur (Grain) Package 05/ 2016-17 Under KUMS Jaipur (Grain)	<ul><li>(i) Vinay Agrawal</li><li>(ii) Gunwant Sharma</li><li>(iii) R.C. Gupta</li></ul>	M/s R J Group N Agencies	Industry	0.598	Completed
213	Vetting of structural Design & Drawing of RCC SR 500kL and RCC CWR 1200kL at Parth City (East & West), Village-Rohikhera, NH- 76, Dist. Udaipur	<ul><li>(i) Vinay Agrawal</li><li>(ii) Ravindra Nagar</li><li>(iii) R.C. Gupta</li></ul>	M/s Kalyan Prasad Sharma	Industry	0.598	Completed



	214	TPQA for the undergoing projects in MNIT	<ul><li>(i) A. K. Vyas</li><li>(ii) H.P. Tiwari</li><li>(iii) Satish Pipralia</li></ul>	Ex Engineer MNIT Project Division CPWD Jaipur	Govt.	4.366	Completed
-	215	Proof checking of design and drawings of ROB in Lieu of LC No. B-50 (Interlocked) – At railway Km. 63.900 (Road Ch. 78+929) on Ludhiana – Firozpur Section Between Ajitwal and Moga Railway Stations.	<ul> <li>(i) Rajesh Gupta</li> <li>(ii) Sandeep</li> <li>Chaudhary</li> <li>(iii) Ravindra Nagar</li> </ul>	M/s Patel Infrastructur e Pvt Ltd	Industry	3.450	Completed
-	216	Evaluation of Cement Concrete Road at Village Gawda Meena, Dist Karouli	<ul><li>(i) Arun Gaur</li><li>(ii) B.L. Swami</li><li>(iii) Pawan Kalla</li></ul>	Tribal Area Developme nt	Govt.	1.725	Completed
	217	Testing of Water Sample	<ul><li>(i) Sanjay Mathur</li><li>(ii) Y.P. Mathur</li></ul>	CCS National Institute of Agricultural Marketing	Govt.	0.575	Completed
	218	Proof Checking of RoBs at LC-53, 70, 74, 75	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	Vishnu Prakash R Punglia Ltd	Industry	6.900	Completed
	219	Appraisal of DPRs of Alwar and Bharatpur Water Supply and Sewerage Projects	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Sanjay Mathur</li></ul>	Excel Tech Consultancy & Projects Pvt Ltd	Industry	0.863	Completed
	220	Unevenness Index for Km. 246 + 300 to 293 + 075 (52 Km.) on NH-11	<ul><li>(i) B.L. Swami</li><li>(ii) Arun Gaur</li><li>(iii) J.K. Jain</li></ul>	The Project Director Toll Road Pvt Ltd	PSU/ Industry	1.150	Completed



221	Technical evaluation work of Other Eklavya Model Residential Schools approved to RSRDC	<ul><li>(i) Sumit</li><li>Khandelwal</li><li>(ii) Nivedita Kaul</li><li>(iii) Sandeep</li><li>Chaudhary</li></ul>	Commission er Tribal Area Developme nt	Govt.	20.125	Completed
222	Proofcheckingofstructuraldesignanddrawings of structure (PreEngineered Building forCenterProcessingBuildingsheds)atGreentechMegaParkPvt.Ltd.,Roopangarh, Dist. Ajmer,Rajasthan-		Mr RS Sharma CEO	Industry	1.150	Completed
223	Testing of coarse aggregates, stone dust and soil	(i) Pawan Kalla (ii) Gunwant Sharma (iii) J.K. Jain	The Project Director NHAI PIU Jaipur	Govt.	1.048	Completed
224	Proof Checking of Various Design and Drawings of Over Head Water Tanks under Rajasthan Rural Water Supply and Fluorsis Mitigation Project (Nagaur)	<ul> <li>(i) Sandeep</li> <li>Chaudhary (ii)</li> <li>Ravindra Nagar</li> <li>(iii) Rajesh Gupta</li> <li>(iv) Sumit</li> <li>Khandelwal</li> </ul>	Larsen & Toubro	Industry	3.220	Completed
225	Vetting of Structural Drawings of RCC Sump (200kL)	<ul><li>(i) Vinay Agrawal</li><li>(ii) Y.P Mathur</li><li>(iii) Gunwant</li><li>Sharma</li></ul>	M/s Kunal Structure Pvt Ltd	Industry	0.633	Completed
226	Job mix design	(i) B.L. Swami (ii) Arun Gaur	AEN Jaipur Central Division CPWD Jaipur	Govt.	0.575	Completed



	1					
227	Design Drawing of Panchayat Samiti Bhawan	(i) M.K. Jat (ii) Sumit Khandelwal (iii) Sudhir Kumar	Panchayat Samiti Pahari Bharatpur	Govt.	1.495	Completed
228	Design and drawing of Panchayat Samiti Bhawan	<ul> <li>(i) M.K. Jat</li> <li>(ii) Sumit</li> <li>Khandelwal</li> <li>(iii) Mahendra</li> <li>Choudhary</li> </ul>	Panchayat Samiti Lavana	Govt.	1.495	Completed
229	Proof checking of academic block at Agriculture college Jobner & Kumher	<ul><li>(i) M.K. Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	Design Architect	Industry	1.380	Completed
230	Proof Checking of Building RSETI-Dausa	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	UCO Bank	PSU	1.438	Completed
231	Proof checking of RoBs at LC18, 30, 39, 53	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	MMS RCK JV New Delhi	Industry	4.600	Completed
232	Vetting of Structural Drawings of RCC Building of Proposed Lalsot Court Complex at Lalsot, Dist. Dausa	<ul><li>(i) Vinay Agrawal</li><li>(ii) Rajesh Gupta</li><li>(iii) Ravindra Nagar</li></ul>	M/s Stambha Consultants	Industry	0.575	Completed
233	Vetting of structural design and drawing for providing cover over Nallah at Jaipur Airport	<ul> <li>(i) Sandeep</li> <li>Chaudhary</li> <li>(ii) Ravindra Nagar</li> <li>(iii) Rajesh Gupta</li> <li>(iv) S.K. Tiwari</li> </ul>	Airport Authority of India	PSU	1.725	Completed

234	Testing of Reinforcement steel 8, 10, 12, 16, 20, 25 & 32 mm dia bars [Ultimate Stress, Proof Stress, % Elongation, weight/m] for the construction of Multistorey Building at Swasthaya Bhawan Jaipur (Contractor:-M/s Roopa & Company, Jaipur	(i) Vinay Agarwal (ii) Gunwant Sharma	The Executive Engineer Medical & Health Division Jaipur	Govt.	0.633	Completed
235	Mix design of M25 and M30 grades	<ul><li>(i) Sandeep</li><li>Shrivastava</li><li>(ii) Rajesh Gupta</li></ul>	AGE BR 1 Jaipur	Govt.	0.575	Completed
236	Proof Checking of CWR	<ul><li>(i) M.K Shrimali</li><li>(ii) S.D. Bharti</li><li>(iii) P.V. Ramana</li></ul>	Nanda Sales	Industry	0.570	Completed
237	Mix design of M25 and M30 grade for construction 12.3MLD CETP with ZLD at Muhana Road, Sanganer, Jaipur Mix Design (M35) including Proof Checking of Design & Drawing of RCC CWR 75kL & GLSR 150kL at Kutina, Tehsil Neemrana, Dist. Alwar and RCC SR 400kL at Manoharpur, Dist. Jaipur and RCC SR 500kL at Shahpura, Dist. Jaipur	<ul> <li>(i) Vinay Agarwal</li> <li>(ii) Gunwant Sharma</li> <li>(i) R. C. Gupta</li> <li>(ii) Ravindra Nagar</li> </ul>	M/s Advent Envirocare Tech Pvt Ltd M/s Namotech Consultancy Services LLP	Industry Industry	0.633	Completed
239	Vetting of drawings of ST Pat Hanumangargh	<ul><li>(i) Y.P Mathur</li><li>(ii) Gunwant Sharma</li><li>(iii) Sanjay Mathur</li></ul>	Municipal Council Hanumangarh	Govt.	0.578	Completed
240	Testing of construction material, concrete cube & cement	(i) B.L. Swami (ii) Arun Gaur	Sr Regional Manager RIICO Ltd Bhiwadi	Govt.	0.575	Completed





#### **DEPARTMENT OF CHEMICAL ENGINEERING Continuing Sponsored Research Projects (Started earlier than 1st April 2016):**

S.	Name of the	Principal	Sponsoring	Type of funding	Outlay (in	Completed
No.	Project	Investigator/ Coordinator	Agency	agency (R&D/ academic/	Lacs of Rs.)	/Ongoing
		Coordinator		Industry/	K5.)	
				PSU/Govt./		
				Specify if any		
				other.)		
1.	Hydrodynamic	Dr. Virendra	DST	Government	35.00	Ongoing
	cavitation as an	Kumar				
	intensifying tool	Saharan				
	for the treatment					
	of crude oil and					
	waste water.					
2.	Defluoridation of	Dr. Suja	DST,	Government	11.524	Ongoing
	Drinking water	George	Rajasthan			
	using	Dr. Urmila	India			
	Combination of	Brighu				
	Magnesium and	Prof. A.B.				
	Calcium amended	Gupta				
	activated alumina					
3.	Experimental and	Dr. Manish	DST,	Government	9.62	Ongoing
	modelling studies	Vashi shtha	Rajasthan			
	for process		India			
	parameter					
	optimization of					
	nutrient mist					
	reactor for					
	sustained					
	production of					
	hairy roots					1





	4.	Green Process:	Dr.	DST,	Govt.	15	Ongoing
		Development of	Subbaramaiah	New			
		Green Catalyst for	V.	Delhi			
		the Synthesis of					
		Glycerol					
		Carbonate from					
		Waste Glycerol					
ŀ	5.	Manufacture of	Dr. Sushant	Kolor	Industry	16.74	Ongoing
		Bricks and Paver	Upadhyaya	Kraft,			
		Blocks by using	(PI)	Rajasthan,			
		Plastic material	Dr. K. Singh	India			
		along with waste	(Co-PI)				
		marble material	Prof.				
		and additives	A.B.Gupta				
			(Co-PI)				
			Dr. Sandeep				
			Chaudhary				
			(Co-PI)				
			Dr. M.L.				
			Meena (Co-				
			PI)				

### New Research Projects (Started in the Year 2016-17):

S. No.	Name of the	Principal	Sponsorin	Type of funding agency	Outlay	Completed
	Project	Investigator	g Agency	(R&D/ academic/	(in	/Ongoing
		/		Industry/PSU/Govt./Specif	Lacs of	
		Coordinator		y if any other.)	Rs.)	
1	Removal of	1. Prof.	MHRD	Govt.	10.00	Started
	heavy metals	Ajay K.	under			
	from ground	Dalai (Uni.	SICRG			
	water and	of				
	industrial	Saskatchew				1.20



		I	1			
	effluents by	an				
	activated	Canada)				
	carbon prepared					
	from waste	2. Prof. S. P.				
	agricultural	Chaurasia				
	biomass					
2.	Utilization of	Dr. Suja	Rajasthan	Govt.	42.976	Ongoing
	marble slurry	George	State			
	powder for	Dr.	Pollution			
	production of	Virendra	Control			
	Hydroxyapatite	Kumar	Board			
	(HAP) suitable	Saharan,				
	for	Prof A.B.				
	defluoridation	Gupta				
	of drinking					
	water					
3.	Green Process:	Dr.	DST,	Govt.	15	Ongoing
	Development of	Subbaramai	New			
	Green Catalyst	ah V.	Delhi			
	for the					
	Synthesis of					
	Glycerol					
	Carbonate from					
	Waste Glycerol					
4.	Development of	Dr. Madhu	DST	Govt.	30.00	Ongoing
	Defloridation	Agarwal	New			
	Kit for		Delhi			
	Domestic					
	Drinking Water					
L			1		1	

5.	Synthesis and	Dr. Dipaloy	SERB-	Govt.	35.30	Ongoing
	Characterizatio	Datta	DST			
	n of Solvent					
	Impregnated					
	Resins for the					
	Treatment of					
	Simulated					
	Textile Dye					
	using					
	Ultrasonic					
	Technology					
	5.	Characterizatio n of Solvent Impregnated Resins for the Treatment of Simulated Textile Dye using Ultrasonic	Characterizatio Datta n of Solvent Impregnated Resins for the Treatment of Simulated Textile Dye using Ultrasonic	Characterizatio Datta DST n of Solvent Impregnated Resins for the Treatment of Simulated Textile Dye using Ultrasonic	CharacterizatioDattaDSTn of SolventImpregnatedImpregnatedImpregnatedResins for theImpregnatedTreatment ofImpregnatedSimulatedImpregnatedTextile DyeImpregnatedUltrasonicImpregnated	CharacterizatioDattaDSTn of SolventImpregnatedImpregnatedImpregnatedResins for theImpregnatedTreatment ofImpregnatedSimulatedImpregnatedTextile DyeImpregnatedUltrasonicImpregnated

### Continuing Consultancy Projects started and completed in the year 2016-17:

S.	Name of	Team	Client	Type of funding agency	Outlay	Completed
No.	the Project	Members		(R&D/ academic/	(in Lacs	/Ongoing
				Industry/PSU/Govt./Specify	of Rs.)	
				if any other.)		
	Conducting			Academic	2.27	Completed
1.	UG Labs of Mass Transfer, Heat Transfer, and Mechanical Operations	Dr. Kailash Singh and Prof. S.P. Chaurasia	JECRC University			



### New Consultancy Projects (Started in the year 2016-17)

S.	Name of	Team	Client	Type of funding agency	Outlay	Completed
No.	the Project	Members		(R&D/ academic /	(in Lacs	/ Ongoing
				Industry/PSU/Govt./Specify	of Rs.)	
				if any other.)		
1.	Conducting	Dr. Kailash	JECRC	Academic	1.58	ongoing
	UG Labs of	Singh	Univer			
	Mass	and Prof. S.P.	sity			
	Transfer	Chaurasia				
	Operations-					
	II and					
	Reaction					
	Kinetics					

#### **Projects completed during the year 2016-17**

S.	Name of the Project	Team	Client	Type of	Outlay (in	Completed
No		Members		funding	Lacs of	/Ongoing
•				agency	Rs.)	
				(R&D/		
				academic/		
				Industry/		
				PSU/Govt./		
				Specify if		
				any other.)		
1.	Development	Prof. S.P.	CCDU,	Govt.	10.224	Comple
	of a solar	Chaurasia;	PHED			ted
	energy based	Prof. A.B.	Rajasthan			
	membrane	Gupta; Dr.				
	distillation	S.Upadhya				
	system for rural	ya				
	drinking water	Dr. G.D.				
	application in	Agarwal				
	Rajasthan					





#### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

Keynote addresses delivered by the Faculty in Seminar / Symposia / Workshop / Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote	Theme	Funding Agency
					address		
1	E. S. Pilli	Cloud Security Alliance Asia Pacific (CSA APAC) Congress	Bangalore	Novem ber 22- 23, 2016	Hybrid Intrusion Detection in Cloud Environme nts	Cloud Security	CPDA
2	Arka Prokash Mazumdar	Convergenc e 2016	Jaipur	April 8- 9, 2016	"The Smart City Convergen ce 2016"	Internet of Things	-

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1	Neeta Nain	The 12th International Conference on SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS	Naples, Italy	CPDA	28 November - 1 December 2016
2	Yogesh Kumar Meena	International Conference on Innovative Engineering Technologies (ICIET) 2016	Pattaya, Thailand	CPDA	14-15 November, 2016
3	Meenakshi Tripathi	7th Annual Computing and Communication Workshop and Conference, CCWC	Las Vegas, USA	CPDA	9-11 January, 2017
4	Meenakshi Tripathi	Consumer Communications & Networking Conference, CCNC	Las Vegas, USA	CPDA	8-11 Jan. 2017



5	E.S. Pilli	IEEE ISEA Asia Security and Privacy Conference	NIT Surat, India	Jan 30 to Feb 1, 2017
6	E.S. Pilli	GIAN International Summer Course on "Advanced Systems Security: Attacks and Defenses" at Malaviya National Institute of Technology	Jaipur	July 4-10, 2016
7	E.S. Pilli	Cisco Security Conclave	New Delhi	April 6-7, 2016
8	E.S. Pilli	Twelfth Annual IFIP WG 11.9 International Conference on Digital Forensics	New Delhi	January 4- 6, 2016

### Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1	Meenakshi Tripathi	GIAN	MNIT Jaipur	MNIT, CPDA	6-10 July 2016
2	Meenakshi Tripathi	Workshop on IoT Security	IIT Delhi	MNIT, CPDA	20 March 2017

#### Guest Lectures Organized in the Department

S.	Name of Speaker	Designation &	Date	Topic of Invited Lecture	Funding
No.	Name of Speaker	Affiliation	Date	Topic of Invited Lecture	Agency
1	Prof. Mauro Conti	Professor, University of Padua,	27-Oct-16	"Security and Privacy Research at the University of Padua, Italy and Involvement in Secure Future Internet Design"	
2	Prof. ParthasarathyRoop	Professor, University of Auckland	Feb-16	Remulation: A New Paradigm for Designing Cyber-Physical Systems: Cardiac Conduction and Heart on a Chip"	
3	Prof. Vijay Vaishnavi.	Professor, Gerogia	5-Feb-16	"Design Science Research",	
4	Prof. Anil K Jain,	Professor	11-Jan-16	"Biometrics and Security",	



5	Suraj Kothari	Iowa State University (ISU), USA and Ben Holland, ISU, USA	14-Sep-16	Euler and 336 Million Dollars Software Patent",	
6	Prof. Dheeraj Sanghi,	Professor, IIIT Delhi	22-Feb-17	"How to create an excellent university: IIIT Delhi",	
7	Dr. Praveen Ranjan Srivastava	IIM, Rohtak	27/09/2016	"Optimal Software Release Management"	
8	Dr. K. K. Mishra	Computer Science & Engineering Departme nt, MNNIT, Allahabad	29/07/2016	"Nature Inspired Algorithms"	

### Visit of Faculty Members to other Institutions as an expert/speaker

S. No	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1	Meenakshi Tripathi	ECE, Ajmer	Speaker for workshop ubiqutitious computing	28/9/16	ECE, Ajmer
2	Meenakshi Tripathi	Compucom College, Jaipur	Recent Trends and Innovations in Sceince, Technology and Management NCRTISTM-2017	24/03/2017	Compucom , Jaipur
3	Namita Mittal	MAISM Jaipur, DST Delhi	Speaker for workshop BIG Data Analytics	07 June, 2016	DST Delhi
4	Namita Mittal	Poornima Institute of Engineering & Technology Jaipur	Keynote Speaker for NCSCT 2017	07/04/2017	Poornima Institute of Engineering & Technology Jaipur
5	Dr. Santosh Kumar Vipparthi	Govt. Engg Colleage Ajmer	National Workshop on Ubiquitous Computing	28-09-2016	Govt. Engg Colleage Ajmer
6	Dr. Santosh Kumar Vipparthi	SGGS-Nanded	International Conference on Signal and Information Processing (IConSIP)	06-08 October 2016	SGGS- Nanded



7	Dr. Santosh Kumar	RTU-KOTA	Recent Trends in Digital Image	21-01-2017	RTU-
,	Vipparthi	KIU KUIK	Processing & Computer Vision	21 01 2017	КОТА
8	Dr. Santosh Kumar	SGGS-Nanded	Research SymposiumV	28-29 Jan	SGGS-
0	Vipparthi	5005-Ivanded	Research Symposium v	2017	Nanded
	Dr. Santosh Kumar RKGIT-		One week Faculty Development		RKGIT-
9	Vipparthi	GHAZIABAD	Program on Digital image		GHAZIAB
	v ipparum	UIIAZIADAD	Processing		AD
			Coordinated and delivered lectures		
10	Dinesh Gopalani	IIT Jodhpur	for course titled "Theory of	Jan to May	IIT Jodhpur
10		iii soanpai	Computation" for B.Tech. IV	2016	III Jounpui
			Semester (CSE) students		
11	Arka Prokash	Jaipur National	Subject Matter Expert (SME)	26-5-2016	JNU
11	Mazumdar	University	Subject Matter Expert (SME)	20-3-2010	5140
	A also Daolso ak	Cost Engineering	ann art talls an tania "Canna ta	22nd	
12	Arka Prokash	Govt Engineering	expert talk on topic "Computer	March	TEQIP-II
	Mazumdar	College Ajmer	Networks"	2017	

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1	Prof. Mosbah and Dr. AkkaZemmari	Professor	University of Bordeaux, France	Research interaction visit	9 January, 2017	



### Seminar/Conference/Workshop/Short Term Course organized

S. No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Fundin g Agency
1	Neeta Nain Yogesh Kumar Meena	Assistant Professor	GIAN Course on Biometric- based Authentication and De-identification for Privacy Protection, 19 - 25 Dec 2016	MNIT Jaipur	19-25 Decembe r 2016	MHRD
2	Neeta Nain	Assistant Professor	GIAN Course on Multimodal and Advanced Biometrics Authentication 2017	MNIT Jaipur	2-11 January 2017	MHRD
3	Meenakshi Tripathi	Assistant Professor	FDP on SDN	MNIT Jaipur	18-22 March 2016	ISEA , IIIT Kota
4	Dr. Santosh Kumar Vipparthi (MNIT) Dr. Pooja Jain (IIITK) Dr. Vijay Laxmi (MNIT) Dr. Namita Mittal (MNIT) Dr. Smita Naval (IIITK) Dr. Tapan Kumar Jain (IIITK)	Assistant Professor	Five day National Workshop on Recent Advances in Engineering and Medical Imaging Techniques (RAEMIT-16)	MNIT- JAIPUR	April 12- 16, 2016	IIIT Kota
5	M.C. Govil, Dinesh Gopalani, E.S. Pilli		Faculty Development Programme on Parallel Computing	MNIT Jaipur	April 8- 12, 2016	EICT Acade my
6	MNIT EICT Academy	Coordinator	Five Day Faculty Development Programme on Parallel Computing	MNIT Jaipur	April 8 – 12, 2016	MNIT
7	Dr. Vijay Laxmi Associate Professor, Mr. Ramesh B. Battula	Coordinator	GIAN Course on "Advanced System Security : Attacks and Defenses"	MNIT Jaipur	July 4-12, 2016	



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				GIAN Course on "Recent			
		Prof. Manoj Singh		Advances in VLSI Testing			
	0		Coordinator	and Design-for-Test: Timing	MNIT	July 25 -	
	8	Gaur Professor,	Coordinator	Tests, Test Compression,	Jaipur	29, 2016	
		Dr. Lava Bhargava		Cell Aware Test and			
				Adaptive"			
		Prof. Manoj Singh		GIAN Course on "Managing			
		Gaur, Professor		the Complexity, Security,	MNIT	Sept. 12-	
	9	Dr. Vijay Laxmi	Coordinator	and Safety of Large	Jaipur	16, 2016	
	A	Associate Professor,		Software			
-		Dr. Vijay Laxmi					
		Associate Professor,		GIAN Course on "Internet:			
	10	Dr. Meenakshi	Coordinator	Security and Privacy		Oct. 24-	
		Tripathi		challenges"		28, 2016	
		Assistant Professor					
-		Prof. Manoj Singh					
		Gaur, Professor	Coordinator	GIAN Course on "Mobile		Nov 21-	
	11	Dr. Vijay Laxmi		Systems Security"		25, 2016	
		Associate Professor,					
					IIT		
					Bombay,	Dec. 16-	
				ICISS 2016	Mumbai,	20, 2016	
					India,		
				3rd IEEE Internation	in		
				Conference on Identity,	collaboratio	February	
				Security and Behaviour	n with IIIT	22-24,	
				Analysis (ISBA 2017)	Delhi	2017	
					in		
				IAPR International Summer	collaboratio	January	
				School on Document	n with	23-28,	
				Analysis: Document	CEERI	2017	
				Informatics,	Pilani		



			12th International		10th –	
			Conference on Information		16th	
			Systems Security (ICISS-		Decembe	
			2016)		r, 2016	
			2 dava wantahan an		January	
			2-days workshop on Wireless Sensor Networks		27-28,	
			wireless Sensor Networks		2016	
			Police Officers' Training		April 17-	
			Program on "Investigation		21, 2017	
			of Cyber-Crime Cases"			
			Police Officers' Training		Feb 21 -	
			Program on "Investigation		28, 2017	
			of Cyber-Crime Cases"		20, 2017	
			Faculty Development		February	
			Program on "Software		9, 2016.	
			Defined Networks"		9,2010.	
				Parthasarat		
				hiRoop,	12th –	
12	Dr. Vijay Laxmi	Coordinator	The Science of Remulation	University	16th	
12		Coordinator	for Executable Biology	of	Decembe	
				Auckland,	r, 2016	
				New Zealand		

#### DEPARTMENT OF ELECTRICAL ENGINEERING

### Continuing Sponsored Research Projects (Started earlier than 1<sup>st</sup> April 2016):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	High Energy And Power Density (HEAPD) Solutions to Large Energy	Dr. Rohit Bhakar	Department of Science & Technology, Government of India	Government	43.7	Ongoing



### New Research Projects (Started in the Year 2016-17):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Investigations on Various Unidirectional/Bi- directional Electric Vehicle (EV) Charging/Discharging Configurations for Green Electric Transportatio	Dr. Arun Kumar Verma	SERB- Department of Science & Technology, Government of India	Government	39	Ongoing
2.	Condition Monitoring and Efficient Usage of Wind Farms using Advanced Prediction Models	Dr. Kusum Verma Dr. Rajesh Kumar	DST, Rajasthan	R&D, Government	4.536	Ongoing
3.	Performance Enhancement and Reliable Operation of Wind-PV Distribution System Supplying AC/DC Loads with Remote Condition Monitoring	Dr. Vijayakumar K	SERB –DST	Govt. of India	19.89	Ongoing
4.	Design and Development of Power Electronic Converter Controllers for Renewable Powered Telecommunication System	Dr. Vijayakumar K	Ministry of Communications & Information Technology	Govt. of India	37.00	Ongoing



S.	Name of the	Team	Client	Type of funding	Outlay	Completed
No.	Project	Members		agency (R&D/	(in	/Ongoing
				academic/	Lacs	
				Industry/PSU/Govt.	of Rs.)	
				/Specify if any other.)		
1.	Training	Prof. K.K.	Indian	Govt.	1.51	Completed
	programme for	Sharma	Railways			
	supervisors of	Dr.				
	Indian railways	RajiveTiwari,				
		Dr.				
		Vijayakumar K.				
2.	Consultancy	Dr. H. P.	Kalindee	Industry	1.0	Completed
	regarding	Tiwari	Rail			
	Applicability	Prof. K. R.	Nirman			
	of Scope of	Niazi	Engineers			
	BS7671 for	Dr. Vikas	Ltd.			
	design and	Gupta				
	construction	Capin				
	of signaling					
	work.					

#### **Continuing Consultancy Projects started and completed in the year 2016-17):**

### Projects completed during the year 2016-17

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	A Robotic Assistive Bio- mechanical Study on Posture	Dr. Rajesh Kumar (Principal Investigat or)	Department of Science and Technology, India	Govt.	21.0396	Completed
	Deviations on Elderly and Remedies					



#### **Testing (Carried out in the Year 2016-17)**

S. No.	Name of the Lab	Total Amount (in Lacs of Rs.)	Team Members	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)
1.	Power System Lab (Testing of Cable)	0.91200	<b>PI:</b> Dr. H. P. Tiwari <b>Co-PI:</b> Dr. Vikas Gupta & Dr. Rohit Bhakar	PHED City Devision I south Jaipur

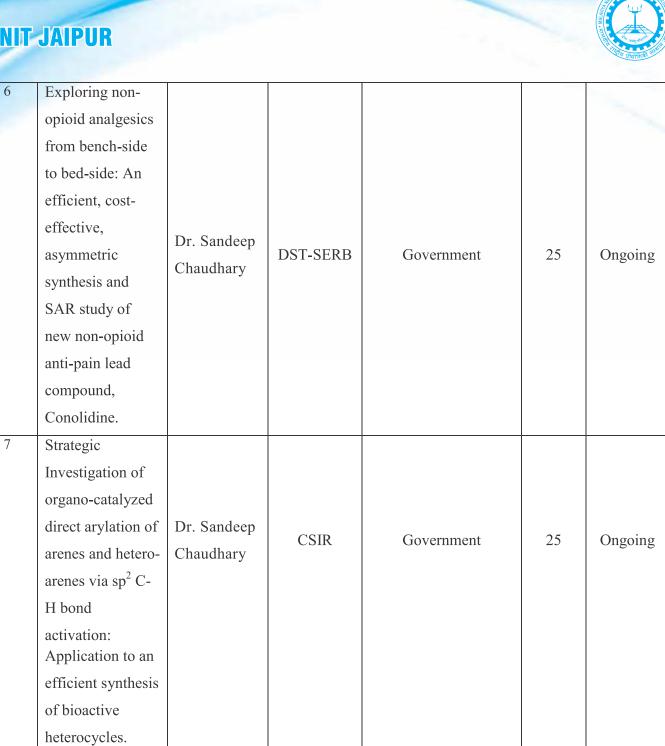
#### **DEPARTMENT OF CHEMISTRY**

#### Continuing Sponsored Research Projects (Started earlier than 1st April 2016):

S.	Name of the	Principal	Sponsoring	Type of funding agency	Outlay	Completed
No.	Project	Investigator/	Agency	(R&D/ academic/	(in Lacs	/Ongoing
		Coordinator		Industry/PSU/Govt./Sp	of Rs.)	
				ecify if any other.)		
1	Development of	Dr. Ragini	DST-Delhi	Government	33.23	ongoing
	Novel Artificial	Gupta				
	Naked Eye					
	Fluoride ion					
	Receptors"					
2	Strategically	Dr. Raj	CSIR New	Government	18	On-going
	Development of	Kumar Joshi	Delhi			
	metalsilylene					
	complexes:					
	Potential catalyst					
	for unique organic					
	transformation and					
	silylene transfer					
	reactions					



3	3	New Perspectives to	Dr. Raj	DST-NFR	Government	32.5	On-going
		Advance Green	Kumar Joshi	Indo-South			
		Medicinal	and Prof.	African			
		Chemistry	Gregory	Bilateral			
			Smith	Research			
				Project			
4	1	Design and Study	Dr. Raj	DST-RFBR	Government	19	On-going
		of Potential	Kumar Joshi	Indo-Russia			
		Metallacarborane	and Prof.	Joint			
		Catalysts for	Igor T.	Bilateral			
		General and	Chizhevsky	Research			
		Selective Organic Reactions	(Russian)	Project			
4	5	Exploring	Dr. Sandeep	DST-ARRS			
		Antimalarial	Chaudhary	Indo-	Comment	14.5	Onecian
		Peroxides from	&	Slovenian	Government	14.5	Ongoing
		Bench-side to	Dr. Jernej	Joint			
		Bed-side:	Iskra	Research			
		Synthesis,		Project			
		Chemistry,					
		Antimalarial					
		Assessment and					
		SAR studies of					
		Novel					
		functionalized 1,					
		2, 4-Trioxanes					
		and 1, 2, 4, 5-					
		Tetraoxanes					
		against Multi-					
		drug Resistant					
		Malaria.					





8	Strategic					
	Investigation of					
	Novel Pincer-					
	Based metal-					
	catalyzed $sp^2$ and					
	sp <sup>3</sup> C-H bond	Dr. Sandeep	SERB, New			
	activation	Chaudhary	Delhi	Government	19.20	Ongoing
	reactions:	&				
	Application	Dr. Jaggi lal				
	towards the					
	synthesis of					
	Novel					
	Bioheterocycles.					
9	Synthesis of hetero-	Dr. Sandeep				
	substituted amino	Chaudhary	SERB, New			
	acids via C (sp <sup>3</sup> )-H	&	Delhi	Government	33.17	Ongoing
	functionalization	Dr. Yogesh				
	and its applications.	Kumar				
10	Designing and					
	Systematic Study					
	of New Two	Dr. Sumanta				
	Dimensional	Kumar	DST	Government	24.22	
	Mxenes for	Meher				
	Electrochemical					
	Energy Storage Applications					
11	High performance	Dr.Sumit	DST	Government	47.22	Ongoing
	hyperbranched	Kumar Sonkar		Government	-17,22	Jugoing
	nitrogen/phosphoro					
	us doped photo-					
	luminescent carbon					
	quantum dots for					
	imaging and					
	sensing applications					

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12	Multi-colored	Dr. Sumit	CSIR	Government	23.00	Ongoing
	emissive	Kumar Sonkar				
	fluorescent					
	graphitic carbon					
	nano-rods for					
	sensing and					
	photocatalytic					
	applications					
13	Theoretical	Dr. Pradeep	DST-SERB	Government	40.55	ongoing
	Investigation of	Kumar				
	The Effect of					
	Environment					
	Fluctuations on					
	Vibrational					
	Energy relaxation					
	of Complex					
	Molecules					
14	Role of Ammonia	Dr. Biman	SERB-DST	Government	39.6	Ongoing
	in the Chemistry of	Bandyopadhy				
	Oxygenated	ay				
	Volatile Organic					
	Compounds: A					
	Combined IR					
	spectroscopic and					
	Quantum Chemical					
	Investigation					
15	Designing Sugar-	Dr Sudhir	DST	Government	35	Ongoing
	Fused	Kashyap				
	Glycosidase					
	Inhibitors Using					
	Glycal Template					



Γ	16	Diversity oriented	Dr Sudhir	DST	Government	24.68	Onging
		synthesis (DOS)	Kashyap				
		approach to					
		sugar-based					
		therapeutic					
ŀ	17	Organometallic-	Dr. Abbas	DST	Government	33.7	Ongoing
		Photosensitizers	Raja				
		Bearing Hybrid N-	Naziruddin				
		Heterocyclic					
		Carbene Ligands					

## New Research Projects (Started in the Year 2016-17):

S.	Name of the Project	Principal	Sponsoring	Type of funding	Outlay	Completed
No.		Investigator/	Agency	agency (R&D/	(in	/Ongoing
		Coordinator		academic/	Lacs of	
				Industry/PSU/Govt.	Rs.)	
				/Specify if any		
				other.)		
1.	Development of					
	innovative	Dr. Sandeep				
	Indigenous	-	DST,		33.36	
	knowledge system	& Dr. Jyoti Joshi	New	Government		Ongoing
	(IKS)-based new		Delhi		lakhs	
	cosmetic raw	(Co-PI)				
	material: Isolation,					
	extraction and					
	chemical profiling of					
	melanin biosynthesis					
	pathways-based					
	natural compounds					
	from Indian and					
	South-African					
	medicinal plants.					



## **Projects completed during the year 2016-17**

S.	Name of the Project	Team	Client	Type of funding	Outlay	Completed
No.		Members		agency (R&D/	(in	/Ongoing
				academic/	Lacs of	
				Industry/PSU/Govt./S	Rs.)	
				pecify if any other.)		
1	Strategically Development of metalsilylene complexes: Potential catalyst for unique organic transformation and silylene transfer reactions	Dr. Raj Kumar Joshi	CSIR New Delhi	Government	18	Completed on December 31, 2016
2	Exploring nitrogen- based heterocycles from bench-side to bed-side: Synthesis, chemistry, stereo- chemical assignment, structure-activity relationship studies and biological evaluation.	Dr. Sandeep Chaudhary & Prof. Irina V. Mashevskaya	DST- RFBR Indo- Russian Joint Research Project	Government	26.236 lakhs	Completed
3	Chemo- and regio- selective transition metal-catalyzed asymmetric hydroarylation of methylenecyclobutanes and methylenecyclopentanes	Dr. Sandeep Chaudhary	Institute Seed Grant	Government	16 lakhs	Completed





### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

S.	Name of the	Principal	Sponsoring	Type of funding	Outlay	Completed
No.	Project	Investigator/	Agency	agency (R&D/	(in Lacs	/Ongoing
		Coordinator		academic/	of	
				Industry/PSU/Govt./	Rs.)	
				Specify if any other.)		
1.	Training of			Central Govt.	1.51	Completed
	supervisors of	Duef V. V. Cherry	Indian Dailanana			
	Indian	Prof K K Sharma	Indian Railways			
	Railways					
2.	Special	Prof.D.Boolchandani	Ministry of	Government	100	Ongoing
	Manpower	Co- Investigator;	Communications			
	Development	Dr.LavaBhargava	& IT			
	Programme for					
	Chips to System					
	Design					
3.	New	Dr. Ritu Sharma	DST rajasthan	R &D	1.60	ongoing
	Architectures of					
	Elliptical air hole					
	elliptical PCF for					
	ultra flattended					
	low dispersion				-	
4.	Design and	Dr. Ritu Sharma	IITM Kanpur	R & D	2	Ongoing
	simulation of					
	cantilever type					
	MEMS based energy harvester					
	Modeling and	Vijay Janyani	DST New Delhi	R&D	6.3	Ongoing
5.	implementation	v ijay Saliyalli	DOT NOW DOM	Rep	0.5	ongoing
	of free space					
	optical					
	transceiver for					
	next generation					
	optical					
	communication					
	applications					



6	C C	Dr. Ghanshyam Singh	INDIA-UKRAINE	DST, Govt. of India	Rs.	
	characterization		INTER-		1078440	
	of Lithium		GOVERNMENTAL		(Indian	
	Niobate		SCIENCE &		component)	
	(LiNbO <sub>3</sub> ) based		TECHNOLOGY		(July 2015	
	optical devices		COOPERATION		- May	
	using surface		PROGRAMME		2017)	
	geometric					
	techniques for					
	their					
	applications in					
	Integrated					
	Optical Circuits					
	(IOCs)"					
7	. "Design and	PI : Dr .C. Periasamy,	INDIA – AUSTRIA	DST, Govt. of India	Rs. 550000	
	Development of	Co-PI: Dr.	SCIENTIFIC-		(Indian	
	Nanostructured	Ghanshyam Singh	TECHNOLOGICAL		component)	
	ZnO Film Based		CO-OPERATION		(June 2015	
	Piezoelectric				- May	
	Devices for				2017)	
	Energy					
	Harvesting					
	Applications"					
		Indian DI: De Mile		DST, Govt. of India	Da	
8		Indian PI: Dr. Vijay	INDIA-EGYPT		Rs.	
	implementation	Janyani,	SCIENTIFIC		624000.00	
	of free space	Co-PI: Dr.	COOPERATION		(Indian	
	optical	Ghanshyam Singh	PROGRAMME		component)	
	transceiver for				(Aug. 2016	
	next generation				- July	
	optical				2018)	
	communication					
	applications"					



[	9.	Design and	Dr.C.Periasamy	Science	&Engg.	R&D/ Govt	20.96 lakh	Ongoing
	).		Di.C.i enusuiity				20.90 Iukii	ongoing
		Development		Research	Board			
		of AlGaN/GaN		(SERB)				
		High Electron						
		Mobility						
		Transistors						
		(HEMTs) for						
		Bio-sensing						
		Applications						
		(Jan-2016-						
		2019)						

## New Research Projects (Started in the Year 2016-17):

S.	Name of the Project	Principal	Sponsoring	Type of funding	Outlay	Completed
No.		Investigator/	Agency	agency (R&D/	(in Lacs of	/Ongoing
		Coordinator		academic/	Rs.)	
				Industry/PSU/		
				Govt./		
				Specify if any		
				other.)		
1.	Integrated optics devices for	Dr. M. Ravi	MeitY	Govt.	37	Ongoing
	visible light communication	Kumar				
2.	SIR VISVESVARAYA	Dr.	Ministry of	Govt.	37	Yet to start.
	YOUNG FACULTY	SatyasaiJagan	Electronics			Approved by
	RESEARCH FELLOW	nath Nanda	and			Ministry
			Information			
			Technology			
3.	Efficiency Enhancement in		DST	R&D	40	Ongoing
	Thin Film GaAs	Dr Vijay				
	Solar Cell using Photonic	Janyani				
	Crystal as a Back Reflector					
4.	SMDP VLSI	Co-	Ministry of	DEITY		
		Coordinator	comm. &			
			IT			
5.	E & ICT Academy	Co-	Govt.	DEITY	1000 lacs	
		Coordinator				



## New Consultancy Projects (Started in the year 2016-17)

S.	Name of the	Team	Client	Type of funding	Outlay (in	Completed
No.	Project	Members		agency (R&D/	Lacs of Rs.)	/Ongoing
				academic/		
				Industry/PSU/Govt./		
				Specify if any other.)		
1.	Development	Dr. Sanjay	Rajasthan	Government of	3,335,000.00	Ongoing
	and	Rajpal (PI)	Health	Rajasthan		
	Maintenance	Dr.	University			
	of MIS and	Ghanshyam				
	Marksheet	Singh				
	Printing for	(Co-PI) et				
	RUHS	al.				
2.	Online	Dr. Sanjay	Rajasthan	Government of	437,000.00	Disburshed
	transmission	Rajpal (PI)	Health	Rajasthan		
	of encrypted	Dr.	University			
	question	Ghanshyam				
	papers for	Singh				
	MBBS, BDS,	(Co-PI) et				
	MSc	al.				
	Radiotherapy					
	examinations					
	of RUHS and					
	centre					
	management					





## **Projects completed during the year 2016-17**

S. No	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/	Outlay (in Lacs	Completed
•		Weinbers		Industry/PSU/Govt./Spe cify if any other.)	of Rs.)	/Ongoing
1.	"Design and Developmen t of Micro- structured Optical Components for Photonic Integrated Circuit (PICs) applications"	Dr. Ghanshya m Singh (PI), Dr. Vijay Janyani (Co-PI)	INDIA- JAPAN COOPERA TIVE SCIENCE PROGRAM ME (DST-JSPS JOINT RESEARCH PROJECT	DST, Govt. of India	Rs. 456000 (Indian compone nt) (June 2014 - March 2016)	Completed in March 2016

## New Research Projects (Started in the Year 2016-17):

S. No.	Name of the	Principal	Sponsoring	Type of funding agency	Outla	Completed
	Project	Investigator/	Agency	(R&D/ academic/	y (in	/Ongoing
		Coordinator		Industry/PSU/Govt./Specify	Lacs	
				if any other.)	of Rs.)	
1.	Application	Dr Ritu	NBHM	R&D	3.84	Ongoing
	of fractional	Agarwal	(DAE)			
	calculus in	-				
	the study of					
	dynamics of					
	systolic					
	calcium ion					
	in astrocytes					





### **DEPARTMENT OF MECHANICAL ENGINEERING**

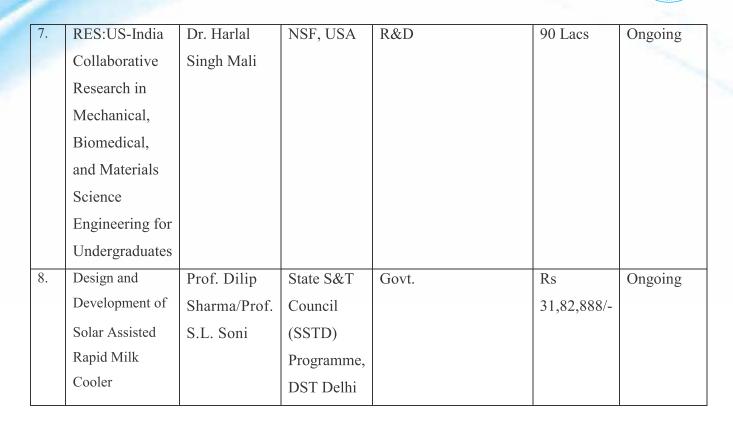
## Continuing Sponsored Research Projects (Started earlier than 1<sup>st</sup> April 2016):

S.	Name of the	Principal	Sponsoring	Type of funding agency	Outlay (in	Completed
No.	Project	Investigator/	Agency	(R&D/ academic/	Lacs of Rs.)	/Ongoing
		Coordinator		Industry/PSU/Govt./		
				Specify if any other.)		
1.	US-India Joint	Prof.	US-DOE	Govt.	5.93 cr.	Ongoing
	centre for	Jyotirmay	and Indian			
	building and	Mathur	Ministry of			
	development		science and			
	(CBERD)		technology			
	under the		with			
	umbrella of		matching			
	US-INDIA		industrial			
	partnership to		funding			
	advance clean					
	energy (PACE)					
2.	Development	Dr. Amar	Council of	R&D	Rs.	Ongoing
	of Ti-Al-N	Patnaik	Scientific		18,90,000	
	based coating		and			
	on Al-alloy for		Industrial			
	application in		Research			
	hydroturbine		(CSIR)			
	blades					
3.	Development of	Dr. Amar	State S&T	R&D	Rs. 55,	Ongoing
	Marble dust	Patnaik	Councils,		00,000	
	Filled Fibre		Department			
	Reinforced		of Science			
	Polymer		and			
	Composite for		Technology			
	Wind Turbine					
	Blade					





ſ	4.	Effective	Dr. Amit	DST	Govt	24.9	Completed
		Product	Singh				
		Development					
		Through Integration of					
		Reverse					
		Engineering					
		And Additive					
		Manufacturing					
	5.	Effective	Dr. Amit	DST	Govt	24.9	Completed
		Product	Singh				
		Development					
		Through					
		Integration of					
		Reverse					
		Engineering					
		And Additive					
		Manufacturing					
	6.	Design &		DST, SERB	R&D	13.14 Lacs	Completed.
		Development					
		of low cost one	Dr. Harlal				
		way Abrasive	Singh Mali				
		Flow Machine					
		(AFM)					
		utilizing pulp					
		& fullers					
		earth based					
		media					

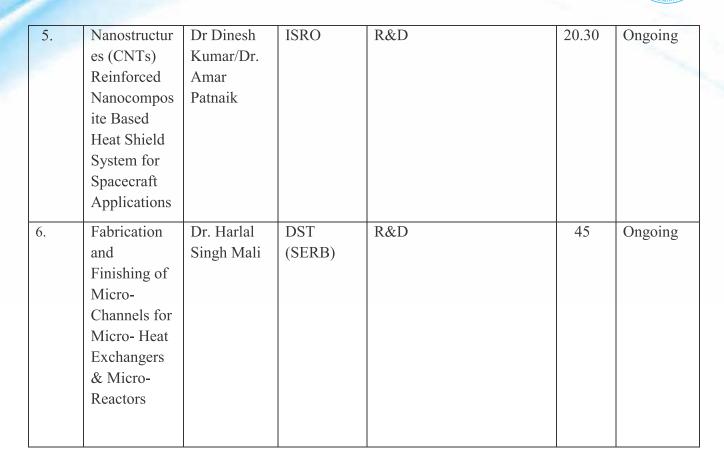






## New Research Projects (Started in the Year 2016-17):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	UK India Clean Energy Research Institute (UKICERI)	Prof. Jyotirmay Mathur	Indo-UK	Govt.	30	Ongoing
2.	IEQ standard implementati on methodology	Prof. Jyotirmay Mathur	Indian Society of Heating, Refrigerati ng and Air Conditioni ng Engineers (ISHRAE)	ISHRAE	16.25	Ongoing
3.	Development and performance analysis of double pane Semi- Transparent Solar Photovoltaic Window/Fac ade system	Dr. Sanjay Mathur/ Prof Jyotirmay Mathur	Department of Science and Technolog y, Govt. of India	Govt.	65.21	Ongoing
4.	Technology Business Incubator	Prof. Awadhesh Bhardwaj	TBI, DST New Delhi	TBI, DST	Rs. 4.5 Crore	Ongoing



### Continuing Consultancy Projects started and completed in the year 2016-17):

S.	Name of the	Team	Client	Type of	Outlay (in	Completed
No.	Project	Members		funding	Lacs of Rs.)	/Ongoing
				agency (R&D/		
				academic/		
				Industry/PSU/		
				Govt./Specify		
				if any other.)		
	Training	Prof. G S	Students	Academic	Rs.14.9	Completed
1.	program for	Dangayach	of GECA			
	students of	Prof. A.	01 OLCA			
	Govt. Engg.	Bhardwaj				
	College, Ajmer	Dr. M. L.				
		Meena				
		Dr. Amar				
		Patnaik				



		Prof. G S				
		Dangayach		Academic	1.72	Completed
		Dr. Amar				
	Summer	Patnaik				
2	<ul><li>2. internship to</li><li>Engg. students</li></ul>	Dr. Dinesh	Engg.			
2.		Kumar	students			
		Dr. Amit				
		Singh				
		Dr. Gunjan				
		Soni				
	Reclassification					
	of climatic					
	zones of Indian	Prof.				
3.	cities and	Jyotirmay	ISHRAE			
	updating	Mathur		ISHRAE	5.47	completed
	weather data					
	book with e-					
	publishing		<u> </u>			
	Summer	Dr. Amar	Students	Academic	0.75	Completed
	internship in	Patnaik				(2015)
	Advances in	Dr. Amit				
	Industrial	Singh Dr. Dinesh				
4.	Research	Kumar				
	Applications in	Dr. Gunjan				
	Mechanical	Soni				
	Engineering	Dr. Harlal				
		Singh Mali				

	Summer	Prof. I.K.Bhat	Students	Academic	1.72	Completed
	Internship	Prof. G. S.				(2016)
5.	Program In	Dangayach				
	"Computational	Dr. Amar				
	and	Patnaik,				
	Experimental	Dr. Amit				
	Analysis in	Singh,				
	Industrial	Dr. Dinesh				
	Applications in	Kumar,				
	Mechanical	Dr. Gunjan				
	Engineering"	Soni,				

## New Consultancy Projects (Started in the year 2016-17)

S.	Name of the	Team	Client	Type of funding agency	Outlay	Completed
No.	Project	Members		(R&D/ academic/	(in	/Ongoing
				Industry/PSU/Govt./Specify	Lacs	
				if any other.)	of Rs.)	
	Finishing	Prof.	Students	Govt. Women Engineering	15	Completed
1.	school	G.S.Dangayach,		College, Ajmer		(2017)
	program on	Prof. A.				
	Mechanical	Bhardwaj				
	experiments	Dr.				
	and	M.L.Meena				
	research	Dr. Amar				
	techniques	Patnaik				

## Projects completed during the year 2016-17

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Spec ify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Experimental Study of Flat Plate Solar Collector (Direct absorption type) Using Nano- Fluids			DST	11.95	Completed





### **DEPARTMENT OF MANAGEMENT STUDIES**

#### **Continuing Sponsored Research Projects (Started earlier than 1<sup>st</sup> April 2016):**

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	A study of WCM Management Practices of Indian firms after global financial crisis	Dr. Satish Kumar	ICSSR, New Delhi	Academic	7.00	Completed
2.	Rural Women Empowerment and Sustainable Growth	Dr. Monica Sharma	DST, GOI	Academic	27.40	Ongoing
3.	Empirical Investigation of Ergonomic Interventions in Handicraft industry in Rajasthan with a special reference to Gems and Jewellery industry	Dr. Monica Sharma	DST, GOI	Academic	18.50	Ongoing

## Continuing Consultancy Projects started and completed in the year 2016-17):

S. No.	Name ofthe	Team Members	Client	Type of funding agency (R&D/ academic/	Outlay (in Lacs	Completed
	Project	interno er s		Industry/PSU/Govt./Specify	of Rs.)	/Ongoing
				if any other.)		
1.	Effective teaching for technical educators	Dr. M.L. Mittal, Dr. Deepak Verma, Dr. Satish Kumar	Government Women Engineering College, Ajmer	Academic	7.5	Completed



### **DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING**

## Continuing Sponsored Research Projects (Started earlier than 1st April 2016):

S.No.	Name of the	Principal	Sponsoring	Type of funding agency	Outlay	Completed
	Project	Investigator/	Agency	(R&D/ academic/	(in	/Ongoing
		Coordinator		Industry/PSU/Govt./Specify	Lacs of	
				if any other.)	Rs.)	
1.	Production of	Prof. M.K.	Ministry of	Govt. of INDIA	166	Ongoing
	Iron powder	Banerjee (PI)	Steel			
	from low grade	Dr. Vinod Kumar				
	fuel by reduction	Dr. Amar Patnaik				
	of mill scale					
2.	Investigation of	Dr.R.K.	BRNS,	Dept. of Atomic Energy,	17	Completed
	heat-transfer	Duchaniya	BARC	Govt. of India; Mumbai		
	characteristic on					
	nano-fluid in					
	sub-cooled flow					
	boiling					
3.	Synthesis and	Dr. Vinod Kumar	DST	Govt. of India; New Delhi	17.86	Completed
	Characterization					
	of High Entropy					
	Mg <sub>x</sub> -Al-Fe-Cu-					
	Cr Alloys					
4.	Synthesis and	Dr. Vinod Kumar	BRNS,	Dept. of Atomic Energy,	17.65	Ongoing
	environmental		BARC	Govt. of India; Mumbai		
	degradation					
	study of					
	multicomponent					
	alloy for high					
	temperature					
	application					
5.	Thermoelectric	Prof. M.K.	Indo	Indo Taiwan project	30	Ongoing
	material	Banerjee	Taiwan			
		Dr.	project			
		KanupriyaSachdev				



Γ	6.	Study of	Prof. Ashok	CPRI,	Govt.	28	Completed
		Metallurgical	Sharma	Banglore			
		Aspects of					
		Nitronic Steel					
		for Underwater					
		Part					
		Applications					

## New Research Projects (Started in the Year 2016-17):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1	Novel synthesis and formability of ultrafine grained Ti- 46Al-1B (at%) alloy	Dr. Vijay NN	SERB (DST)	Govt. of India; New Delhi	36.43	Ongoing
2.	Quenching behavior of Bottom Flooded Molten Pool	Dr.R.K. Duchaniya(P) Prof. U. Pandel(Co PI)	BRNS, BARC	Dept. of Atomic Energy, Govt. of India; Mumbai	35	Ongoing



## **Continuing Consultancy Projects started and completed in the year 2016-17):**

	S.	Name	Team	Client	Type of funding agency	Outlay	Completed
	No.	ofthe Project	Members		(R&D/ academic/ Industry/PSU/Govt./Specify	(in Lacs of Rs.)	/Ongoing
		riojeci			if any other.)	01 <b>KS.</b> )	0 0
					n any other.)		
Ī	1	Vetting of	Dr. R.K.	PHED,	PHED, (IVRCL) - Sanchore	1.5	Completed
		design &	Duchaniya	(IVRCL)			
		drawing of		Sanchore			
		cathodic					
		protection					
		system for					
		MS					
		pipeline					
		under					
		Execution					
		of Works					
		related to					
		Supply of					
		water from					
		Narmada					
		FR WS					
		Project					

## New Consultancy Projects (Started in the year 2016-17)

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1	Reduction of Power Consumption in Induction Melting & Increase the yield of Casting	Prof. A.K. Bhargava Prof. Ashok Sharma Prof. U. Pandel	ShriVaibhavMet acast Pvt. Ltd	Industry	02.00	Ongoing





## **Testing (Carried out in the Year 2016-17)**

S. No	).	Name of the Lab	Total Amount (in Lacs of Rs.)	Team Members	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)
	1	Testing of Samples	0.5	Prof. A.K. Bhargava Dr. R.K. Duchaniya	Fast Kitchen Equipment

### **DEPARTMENT OF PHYSICS**

## Continuing Sponsored Research Projects (Started earlier than 1<sup>st</sup> April 2016):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Complet ed / Pursuing
1.	Synthesis and Characterization of CZTS based thin films by low cost CBD method for solar cell application	Prof. S. K. Sharma (Mentor)	Department of Science and Technology (DST)	Government (for R & D and Academic projects etc.)	18.2	Started from Aug. 2015
2.	Thermoelectric Properties of Mg <sub>2</sub> (Si;Sn) and SiSn alloy with Trivalent and Pentavalent Doping	Dr. K. Sachdev (Co-PI)	Global Innovation & Technology Alliance (GITA)	Govt.	30.69	Pursuing
3.	Tuning the structural, optical and electrical properties of Au nanocrystals embedded in dielectric oxide layers for nonvolatile memory applications	Dr. Srinivasa Rao Nelamarri	SERB, New Delhi	R&D/ Govt	23.20	Pursuing



			T			
4.	Block Copolymer Based Nanoporous Polymer Membranes: Engineering and Applications	Dr. Kamlendra Awasthi	DST, New Delhi	Govt.	83	Pursuing
5.	Self assembled block copolymer nano templates for optoelectronics	Ms. Yogita Kumari, Dr. Kamlendra Awasthi	DST, New Delhi	Govt.	17.05	Pursuing
6.	Functionalization of nanochannels in track etched membranes for gas separation/sensing	Dr. Kamlendra Awasthi	IUAC- UGC, New Delhi	Govt.	7.00	Pursuing
7.	Laser Driven Particle Acceleration	Dr. Ashok Kumar	SERB	Govt.	29.67	Pursuing
8.	High-Pressure Magnetotransport studies on topological insulator nano-devices	Dr. Manoj Kumar	DST, New Delhi	Govt.	35.0	Pursuing
9.	X-ray absorption spectroscopy and high- pressuremagnetotra nsport studies of Bismuth chalcogenide based topological insulators	Dr. Manoj Kumar	UGC DAE CSR, Indore	Govt.	7.3	Pursuing





## New Research Projects (Started in the Year 2016-17):

S.	Name of the	Principal	Sponsoring	Type of funding agency	Outlay	Completed
No.	Project	Investigator/	Agency	(R&D/ academic/	(in	/Pursuing
		Coordinator		Industry/PSU/Govt./Specify	Lacs of	
				if any other.)	Rs.)	
1.	Low energy	Dr. Rahul	IUAC New	Govt.	6.5	Pursuing
	ion irradiation	Singhal	Delhi			
	studies of					
	metal-					
	fullerene					
	nanocomposites					
2.	Self-assembled	Dr.	SERB,	Govt.	28.6	Pursuing
	nanoporous	Kamlendra	DST New			
	block	Awasthi	Delhi			
	copolymer					
	membranes					
	for gas					
	separation					
3.	High-pressure	Dr. Manoj	SERB, New	Govt.	42	Pursuing
	studies on	Kumar	Delhi			
	magnetically					
	doped					
	topological					
	insulators and					
	topological					
	superconductors					



## **Projects completed during the year 2016-17**

S.	Name of the	Team	Client	Type of funding	Outlay	Completed
Ν	Project	Members		agency (R&D/	(in Lacs	/Pursuing
0.				academic/	of Rs.)	
				Industry/PSU/G		
				ovt./Specify if		
				any other.)		
1.	SnO <sub>2</sub> based	PI: Prof. S.	BRNS (Project	Govt. of India	24.23	Completed
	Microwave	K. Sharma	sanction no.	Department of		in March
	Sintered		2010/34/32/BR	Atomic Energy		2015
	Combustible	Co-I: Dr.	NS/2063)			(Period
	Gas Sensors:	К.				2011-
	Study of	Sachdev				2015)
	Grain Size					
	Effect in					
	Enhancing the					
	Gas Sensing					
	Behaviour					
2.	Tailoring the	Dr. Rahul	DST New Delhi	Govt.	12.84	completed
	structural,	Singhal				
	electrical and					
	mechanical					
	properties of					
	Ni-Ti shape					
	memory alloy					
	thin film by					
	energetic ion					
	irradiation for					
	applications in					
	MEMS					





### **11.4 FACULTY/STAFF POSITIONS**

#### STATEMENT SHOWING THE STAFF POSITION

### a) Academic Staff

S.No.	Designation	Sanctioned Strength	In position
			(On 31.3.2017)
1	Director	1	1
2	Professor	68	38
3	Associate Professor/Reader	135	58
4	Assistant Professor	270	98

## b) Non-Teaching Staff

S. No.	Name of Cadre	Total sanctioned	Officers/ officials
		posts	structured in the
			cadre
А.	Officers (10 percent of faculty strength)	47	17
1.	Registrar	1	1
2.	Deputy Registrar	5	3
3.	Assistant Registrar	16	6
4.	Executive Engineer	1	
5.	Assistant Executive Engineer	3	1
6.	Librarian	1	
7.	Deputy Librarian	1	
8.	Assistant Librarian	3	1
9.	Senior Medical Officer	1	
10.	Medical Officer	2	
11.	Senior Student Activity and Sports (SAS) Officer	1	
12.	Student Activity and Sports (SAS) Officer	2	2
13.	Principal Scientific/ Technical Officer	1	
14.	Senior Scientific/ Technical Officer	2	
15.	Scientific/ Technical Officer	5	3
16.	Security Officer	2	0



В.	Technical Higher (30 percent of faculty	141	50
	strength)		
1.	PB-2 with grade pay of Rs 4200/-	57	41
2.	PB-2 with grade pay of Rs 4600/-	42	06
3.	PB-2 with grade pay of Rs 4800/-	28	03
4.	PB-2 with grade pay of Rs 5400/-	14	00
C.	Technical Lower (30 percent of faculty	142	79
	strength)		
1.	PB-1 with grade pay of Rs 2000/-	57	58
2.	PB-1 with grade pay of Rs 2400/-	43	03
3.	PB-1 with grade pay of Rs 2800/-	28	07
4.	PB-2 with grade pay of Rs 4200/-	14	11
D.	Ministerial Higher (08 percent of faculty	38	11
	strength)		
1.	PB-2 with grade pay of Rs 4200/-	17	09
2.	PB-2 with grade pay of Rs 4600/-	11	00
3.	PB-2 with grade pay of Rs 4800/-	06	02
4.	PB-2 with grade pay of Rs 5400/-	04	00
Е.	Ministerial Lower (17 percent of faculty	81	53
	strength)		
1.	PB-1 with grade pay of Rs 2000/-	33	21
2.	PB-1 with grade pay of Rs 2400/-	24	09
3.	PB-1 with grade pay of Rs 2800/-	16	00
4.	PB-2 with grade pay of Rs 4200/-	08	23
F.	Supporting Staff (15 percent of faculty	71	65
	strength)		
1.	PB-1 with grade pay of Rs 1800/-	29	09
2.	PB-1 with grade pay of Rs 1900/-	21	12
3.	PB-1 with grade pay of Rs 2000/-	14	13
4.	PB-1 with grade pay of Rs 2400/-	07	31
	GRAND TOTAL (110 percent of faculty		
	strength)		
			A





#### **WORKING HOURS**

The Institute during the year under report observed the following working hours:

1	Academic Departments	8.00 a.m. to 5.00 p.m. Monday to Friday
2	For employees working in the Administrative Block	-do-
3	Hostels	Round the clock (shift-wise)
4	Estate Department	8.00 a.m. to 5.00 p.m. on all the days of the week and on Sunday, a few members of the staff are called on duty to attend emergency services.
5	Library	Shift wise

#### 11.5 STAFF MEMBERS SPONSORED FOR TRAINING AND LEARNING

#### **DEPARTMENT OF ARCHITECTURE & PLANNING**

Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

#### Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Dr. Tarush Chandra	Arch-o-lunio	Amity University	21 <sup>st</sup> -22 <sup>nd</sup> October, 2016	Design for a better world	Built Environment	N/A

#### Participation of Faculty in Short Term Courses in India

S.	Name of the	Name of the Course	Place	Funding	Date(s)
No.	Faculty			Agency	
1.	Ar. Meenu	Earthquake Resistant Practices	IIT Kharagpur	MNIT Jaipur	13-18 <sup>th</sup>
	Varshney	for students of Architecture			June'2016
2.	Dr. Pooja	Computing in Architectural	Pune	MNIT Jaipur	$23^{\text{rd}}$ - $27^{\text{th}}$
	Nigam	Education, Practice and			January,
		Research (Training Programme)		2	2017



## **Guest Lectures Organized in the Department**

S. No.	Name of Speaker	<b>Designation &amp;</b>	Topic of Invited	Date	Funding
		Affiliation	Lecture		Agency
1.	Ar. Dhananjay M	Practicing Architect	Contemporary Green	March	MNIT
	Shinde			3, 2017	Jaipur &
					IIID Jaipur
					Chapter
2.	Ar. Mahesh Paliwal	Practicing Architect	Architectural Works	Feb 23,	MNIT
				2017	Jaipur
3.	Ilay Cooper	Traveler and Writer	Rajasthan – Exploring	Feb 17,	MNIT
			Painted Shekhawati	2017	Jaipur
4.	Dr. V. Devdas,	Professor, Dept. of	Survey Research	Feb 15,	MNIT
		Architecture and	Methods	2017	Jaipur
		Planning, IIT			
		Roorkee			
5.	Mr. Y P. Singh	Head (Design)	The Role of Windows	Feb 15,	Fenesta
		Fenesta Building	in Building Design	2017	Building
		Systems			Systems
6.	Dr. Pushplata	Professor, Dept. of	Issues of Public	Feb 13,	MNIT
		Architecture and	Spaces in Indian cities	2017	Jaipur
		Planning, IIT			
		Roorkee			
7.	Dr. Ashwani Kumar	Associate Professor,	Land suitability	Feb 13,	MNIT
		CEPT Ahmadabad	Analysis	2017	Jaipur
8.	Ar. Rajeev Kathpalia	Practicing Architect	Working a good	Feb 8,	MNIT
			design	2017	Jaipur

## Visit of Faculty Members to other Institutions as an expert/speaker

S.	Name of	Institution /	Purpose of Visit	Date(s) of	Funding
No.	Faculty	Organization Visited		Visit	Agency
1.	Ar. Meenu	AICTE, New Delhi	Expert Advisor	2016	AICTE
	Varshney				
2.	Dr. Pooja	IIT Roorkee	Delivered Guest Lecture	16 <sup>th</sup> August,	IIT
	Nigam			2016	Roorkee



## Seminar/Conference/Workshop/Short Term Course organized

S.	Name of	Designation	Title of Event	Place	Date(s)	Funding
No.	the					Agency
	Organizing					
	Secretary					
1	Dr. Tarush	Associate	National Conference on 'Urban	MNIT	12 <sup>th</sup> - 13 <sup>th</sup>	MNIT
	Chandra	Professor	Environmental Management in	Jaipur	February,	Jaipur
			India: Problems and Prospects'		2017	
2.	Dr. Tarush	Associate	3- day workshop jointly	MNIT	13/12/2016	MNIT
	Chandra	Professor	organized by Department of	Jaipur	-	Jaipur
			Architecture and Planning and		15/12/2016	
			Centre for Energy and			
			Environment, MNIT Jaipur with			
			GRIHA, New Delhi.			
3.	Dr. Tarush	Associate	3 Day workshop on	MNIT	05/08/2016	MNIT
	Chandra	Professor	'Fairconditioning Thoughtful	Jaipur	-	Jaipur
			Cooling - A training for Trainers		07/08/2016	
			to incorporate sustainability in			
			Architecture Curricula'			
4.	Dr.	Assistant	Workshop for Birla white	MNIT	31/01/2017	MNIT
	Ashwani	Professor	Yuvaratna Competition	Jaipur		Jaipur
	Kumar,					
	Ar. Niruti					
	Gupta,					
	Dr. Nand					
	Kumar,					
	Dr. Pooja					
	Nigam					
5.	Ar. Nischal	Assistant	Lecture cum Demonstration	MNIT	11/11/2016	MNIT
	Jain,	Professor,	Series DuPont Corian Workshop	Jaipur		Jaipur
	Dr. Tarush	Associate				
	Chandra	Professor				



Г	(	Dr. Tarush	Associate	Workshop on Duilding	MNIT	03/09/2016	MNIT
	6.	DI. Tatush	Associate	Workshop on Building		03/09/2010	IVIINII
		Chandra,	Professor	Construction Techniques	Jaipur		Jaipur
		Ar. Meenu					
		Varshney					
Ī	7.	Dr. Tarush	Associate	Workshop on Stone cutting &	MNIT	20/08/2016	MNIT
		Chandra,	Professor	Fixing	Jaipur		Jaipur
		Ar. Meenu					
		Varshney					

#### CENTRE FOR DISASTER MITIGATION AND MANAGEMENT

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1	Prof. M K Shrimali	SEC 2016	SERC Chennai	MNIT	December 2016
2	Dr P V Ramana	SEC 2016	SERC Chennai	MNIT	December 2016

### Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of	Institution /	Purpose of Visit	Date(s) of	Funding
	Faculty	Organization Visited		Visit	Agency
01	Prof. M.K.	Nirma Inst. Of Engg.	Special Lecture & Ph.D.	Augut 2016	Nirma
	Shrimali	& Tech., Ahemdabad	Progress review		
02	Prof M K	IIT Jodhpur	Institute Selection	July 2016	IIT
	Shrimali				Jodhpur
03	Prof. M K	RU	Committee member	December	RU
	Shrimali			2016	



## Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
110.	VISICOL		VNIT	Curriculum	27.05.2016	N.A.
01	Prof. R.K. Ingle	Professor	Nagpur	Meeting	27.05.2010	N.A.
02	Prof. Rajul Gajjar	Professor	Govt. of India	Curriculum Meeting	27.05.2016	N.A.
03	Prof. CVR Murti	Director	IIT Jodhpur	Curriculum Meeting	27.05.2016	N.A.
04	Prof. R.S. Jangid	Professor	IIT Bombay	Curriculum Meeting	27.05.2016	N.A.

#### **CENTRE FOR ENERGY & ENVIRONMENT**

Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S.	Name of the	Title of Event	Place	Date(s)	Title of Keynote	Theme	Funding
No.	Faculty				address		Agency
1	Dr Vivekanand	ICES-2017,	BHU	23-25 <sup>th</sup> Feb	Bioenergy: Towards	Environment	BHU
		BHU Varanasi	Varanasi	2017	sustainable organic		Varanasi
					waste management.		
2.	Dr Vivekanand	Indo-Norwegian	RCN,	6-7 Sept	Sustainable organic		
		Joint Workshop	Norway and	2016	waste management		
		on Bioeconomy	DST GoI				
		(The Research					
		Council of					
		Norway and					
		DST-Govt. of					
		India), Oslo-					
		Norway					
3.	Dr Vivekanand	4th Industry-	IIT Indore	18-20 April	Bioenergy:	Industry-	IIT Indore
		Academia		2016	Sustaining the Future,	Academia	
		Conclave -2016,			Institute and Industry	Conclave	
		IIT Indore			- Strategies for a		
					Win-Win Concept		



4.	Dr Vivekanand	Norway - India	Hotel Taj,	14-15	India and Norway:	Clean water	Clean
		Summit -	New Delhi	March 2016	approach to business	Norway	water
		Innovative			culture		Norway
		Solutions for a					
		Sustainable					
		Future in Urban					
		Wastewater					
		Treatment and					
		Resource					
		Recycling					
5.	Dr. Sanjay	Training	Department	22	Auditing	Environment	Department
	Mathur	Program on	of Atomic	September	Environment and	Management	of Atomic
		Environmental	Energy	2016	Sustainable		Energy
		Management			Development Issues		
6.	Dr. Kapil	Fuel Cell	MNIT Jaipur	11-12 April	Hydrogen Storage	Fuel Cell	MNIT
	Pareek	Workshop		2016	Technologies:		
					Current Status,		
					Challenges and		
					Opportunities		
7.	Dr. Kapil	ICFM 2016	IIT	12-14 Dec	Ambient	Conference	MNIT
	Pareek		Kharagpur	2016	Temperature		
					Hydrogen Storage for		
					Fuel Cell Vehicle		
8.	Dr Kapil	Future Energy	MNIT Jaiput	13 Jan 2017	Hydrogen Storage	Workshop	MNIT
	Pareek	Storage			Methods and		
		Technologies			Applications		
9.	Dr. Kapil	STC on	NIT	22 March	Renewable Energy	STC	NIT
	Pareek	Renewable	Kurukshetra	2017	and Energy Storage		Kurukshetra
		Energy:			in India		
		Technologies &					
		Transitions					





S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. Amartya Chowdhury	Workshop on Fuel Cell	MNIT Jaipur	CPDA	11-12 April 2016
2.	Dr. Sanjay Mathur	Green Building Congress	Mumbai	Indian Green Building Council	6-8 October 2016
3.	Dr. Kapil Pareek	INUP Familiarization Workshop	MNIT Jaipur	IITB and IISC	26-27 Aug 2016
4.	Dr. Amartya Chowdhury	INUP Familiarization Workshop	MNIT Jaipur	IITB and IISC	26-27 Aug 2016

## Participation of Faculty in National Seminar/Symposia/Workshop/Conference

#### Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Amartya Chowdhury	Training of Trainers Program	NISE Gurgaon	CPDA	11- 12August 2016



S. No.	Name of Speaker	Designation &	<b>Topic of Invited Lecture</b>	Date	Funding
		Affiliation			Agency
1.	Dr. Peter Simmonds	ASHRAE Fellow	Radiant cooling system	Feb 27,	MNIT
		Kaulant cool		2017	
2.	Dr. Sunita Narain	Director, Centre for		Jan 19,	MNIT
		Science and	Air pollution: Death by breath	2017	
		Environment, New	All pollution. Death by breath		
		Delhi			
3.	Mr. Karl R. Rabago	Executive Director,	Smart grid enabled distributed	Dec 5,	MNIT
		Pace Energy and	energy resources: Right-sized	2016	
		Climate Centre, New	energy resources		
		York, USA	chergy resources		
4.	Prof. S. Peeta	Purdue University,	Public transportation, traffic	Oct 18,	MNIT
		USA	management and technology	2016	
5.	Dr. P.C. Jain, ,	Chairman,	Necessity and future of green	Sept 01,	MNIT
5.	D1. 1 .C. Jaili, ,		buildings in India	2016	
		University of	Developing smart, sustainable	July 18,	MNIT
c	Prof. Anu Ramaswami	Minnesota, USA	and healthy cities: Meta	2016	
5.	1 101. And Kamaswann		principles and examples of		
			action		
			Particulate composites and	July 13,	MNIT
	Dr. Nikhil Gupta,	Professor, New York University, USA	sandwich structures; modeling	2016	
7.			and development of		
			multifunctional micro-and		
			nano-composite materials		
				May 09,	MNIT
3.	Dr. John Harper,	AMTEK, USA	Electrochemical analysis of	2016	
0.	Dr. sonn marper,		Fuel Cell and Battery		
	Dr Anoop Singh	IIT Kanpur	Renewable Eenrgy Certificates	Jan 06,	MNIT
9.	Dr moop Singh		Tene whole Lenney Contineates	2017	

## **Guest Lectures Organized in the Department**





S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. Sanjay Mathur	Manipal University	Delivered lecture on Sustainable Buildings	27 April 2016	Manipal University

## Visit of Faculty Members to other Institutions as an expert/speaker

#### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Dr. Kevin Truman		University of Missouri - Kansas City, USA	Interactive session - Higher education in USA under recent changes in foreign policy of USA	Apr 6, 2017	MNIT
2.	Prof. Frank Spate,	Ostbayerisch e Technische	Hochschule Amberg- Weiden, Germany	Energy efficient building technology and solar technology (Visit)	Nov 5-6, 2016	MNIT
4.	Ms. Lucinda Gibbs,		FirstSolar, USA		August 26, 2016	MNIT
5.	Mr. Saurabh Gupta,		WAGO Pvt. Limited, Noida	Wago Automation Products	June 16, 2016	MNIT
6.	Dr Anoop Singh		IIT Kanpur	Renewable Eenrgy Certificates	Jan 06, 2017	MNIT

#### Seminar/Conference/Workshop/Short Term Course organized

S.	Name of the	Designation	Title of Event	Place	Date(s)	Funding
No.	Organizing Secretary					Agency
1	Dr. Rohit Bhakar	Asst. Prof.	Future Energy Storage	MNIT	13 <sup>th</sup> Jan	MNIT
	Dr. Kapil Pareek		Technologies		2017	
2	Prof. Jyotirmay Mathur	Professor	Necessity and evaluation of	MNIT	Mar 29,	MNIT
			green practices in buildings		2017	
3	Prof. Jyotirmay Mathur	Professor	Performance Excellence in	MNIT	Mar 16,	MNIT
			Electricity Renewal (PEER)		2017	
4	Prof. Jyotirmay Mathur	Professor	Master Training program on	MNIT	Nov 25-	MNIT
			ECBC		26, 2016	



5	Dr. Vivekanand	Assistant	IND-	MNIT	Oct 6-7,	MNIT
		Prof.	SWEDEN:International		2016	
			Innovation Workshop on			
			Renewable Energy			
6	Prof. Jyotirmay Mathur	Professor	Hands-on CFD workshop	MNIT	Sept 16-	MNIT
			with cradle's scstream		17, 2016	
7	Prof. Jyotirmay Mathur	Professor	MNIT-ISHRAE student	MNIT	Aug 21,	MNIT
	Dr Kapil Pareek	Assistant	chapter		2016	
		Prof.				
8	Prof. Jyotirmay Mathur	Professor	SEEQ-2016	MNIT	Aug 20-	MNIT
	Dr Kapil Pareek	Assistant			21, 2016	
		Prof.				
9	Prof. Jyotirmay Mathur	Professor	Workshop on Occupant	MNIT	July 23,	MNIT
			Productivity in Green		2016	
			Buildings			
10	Prof. Jyotirmay Mathur	Professor	Workshop on Air Handling	MNIT	July 13,	MNIT
			Units		2016	
11	Prof. Jyotirmay Mathur	Professor	Workshop on Design and	MNIT	April 20,	MNIT
			Operation of Solar Bakery		2016	
12	Prof. Jyotirmay Mathur	Professor	Greenovation-16 Technical	MNIT	April 09,	MNIT
	Dr Kapil Pareek	Assistant	Contest		2016	
		Prof.				





#### **DEPARTMENT OF CIVIL ENGINEERING**

#### Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

	Name of	Title of	Place	Date(s)	Title of Keynote	Theme	Funding
	the	Event			address		Agency
	Faculty						
1	Prof. Rohit Goyal	Awareness Raising Programme under National Hydrology Project (NHP)	IRD Hall, Water Resources Department, Govt. of Rajasthan, Jaipur	22 <sup>nd</sup> March 2017	Hydroinformatics	National Hydrology Project	Central Ground Water Board, Ministry of Water Resources, Jaipur
2	Prof. Gunwant Sharma	NCRTISTM Conference	Compucom Institute of Technology & Management, Jaipur	March 23-24, 2017	Water Conservation for Arid and Semi arid regions of Rajasthan	NCRTISTM Conference	Compucom Institute of Technology & Management, Jaipur

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Prof. Rohit Goyal	8th International Conference on Environmental Science and Technology 2016	Houston, Texas, USA	American Academy of Science, USA	June 6-10, 2016
2.	Pawan Kalla	Concrete Roads: Analysis, Design and Evaluation		CPDA	Feb 27 – March 01, 2017



S. No.	Name of	Institution / Organization	Purpose of Visit	Date(s) of	Funding
	Faculty	Visited	r arpose or this	Visit	Agency
1	Prof. Ravindra	CDoS - Stonemart 2017	Speaker	Feb. 3, 2017	CDoS
	Nagar		Speaker	100.0,2017	0200
2	Prof. Ravindra	RIICO, Hindaun City	Expert	March 8, 2017	CDoS
	Nagar	Terre o, Timeuun erry	Expert	1010110, 2017	0.000
3.		CDoS - Stonemart 2017		Feb. 3, 2017	CDoS
					RIICO,
4		RIICO, Hindaun City		March 8, 2017	Hindaun
					City
5	Pawan Kalla	Poornima University	Speaker		Poornima
		i oomma omversity	Speaker		University
6		Chamber of Commerce			Chamber of
0		Chamber of Commerce			Commerce

### Visit of Faculty Members to other Institutions as an expert/speaker

### Visitors to the Department

S.	Name of the	Designation	Affiliation	Purpose	Date(s)	Funding	
No.	Visitor	Designation	Annation	Turpose	Date(3)	Agency	
1	Dr. S.K.	Professor (Retd.)	WRDTC, IIT,	Expert Lecture	11/2/17 &	MNIT,	
	Triparthi	Thessor (Retu.)	Roorkee	Expert Lecture	13/2/17	Jaipur	
2	Dr. Pradeep	Lecturer	Govt Engg	Expert Lecture	06/12/2016	MNIT,	
2	Goyal	Lecturer	College, Ajmer	Expert Lecture	00/12/2010	Jaipur	
	Dr. Jitendra		York			MNIT,	
3	Sharma	Professor	University,	Meeting	06/12/2016	16 Jaipur	
	Sharma		Canada			Jaipui	
			University of		30/11/2016		
4	Dr. Kevin	Dean & Professor	Missouri,	Maating		MNIT,	
4	Truman	Dean & Protessor	Kansas City	Meeting		Jaipur	
			(USA)				
5	Dr. V.S. Dogra	Associate	NIT, Hamirpur	Expert Lecture	30/11/2016	MNIT,	
5	Dr. V.S. Dogra	Professor	mir, maninpui	Expert Lecture	50/11/2010	Jaipur	
6	Dr. Pradeep	Professor & Head,	NIT, Hamirpur	Expert Lecture	30/11/2016	MNIT,	
0	Kumar	Civil Engg Deptt	1911, Hallinpu	Expert Lecture	50/11/2010	Jaipur	



			Royal				
			Melbourne				
7	Dr. Colin	Professor	Institute of	Meeting	21/10/2016	MNIT,	
	Arrowsmith		Technology			Jaipur	
			(RMIT Univ),				
			Australia				
			Royal				
			Melbourne			<ul> <li>.6 Jaipur</li> <li>.6 MNIT, Jaipur</li> </ul>	
8	Dr. Colin	Professor	Institute of	Expert Lecture	21/10/2016		
	Arrowsmith	110103501	Technology	Expert Lecture	21/10/2010		
			(RMIT Univ.),				
			Australia				
	Prof.		University of				
9	Nemikumar	Professor	British	Meeting	21/10/2016	MNIT,	
9	Banthia	FIOIESSOI	Columbia,	Weeting	21/10/2010	Jaipur	
	Danunia		Canada				
10	Dr. Putul	Asst. Professor	UT Dopor	Expert Lecture	21/10/2016	MNIT,	
10	Haldar	Asst. Professor	IIT Ropar	Expert Lecture	21/10/2010	Jaipur	
	Dr. Luc	Head of	KU Leuven,			MNIT	
11	Boehme	technology cluster	Belgium	Expert Lecture	20/10/2016		
	Docimic	construction	Deigium			Jaipui	
12	Gajanan M.	Principal founder	USA	Expert Lecture	20/10/2016	MNIT,	
12	Sabnis	and CEO	USA	Expert Lecture	20/10/2010	Jaipur	
13	Prof. B.S.	Professor	IIT, Madras,	Expert Lecture	20/10/2016	MNIT,	
15	Murty	110105501	Chennai	Expert Lecture	20/10/2010	Jaipur	
14	R. Muralidhar	Technical Head	Larsen & Tubro	Expert Lecture	18-10-	MNIT,	
14	K. Muranunai	Teeninear meau	Laisen & Tubio	Expert Lecture	2016	Jaipur	
	Ms. Solen le		Universite		01-08-	MNIT	
15	Clech	Res. Scholar	Rennes 2,	Expert Lecture	2016	MNIT, Jaipur MNIT, Jaipur MNIT, Jaipur MNIT, Jaipur MNIT, Jaipur MNIT,	
	Citti		France		2010	Jaipui	
			Universite		01-08-	MNIT	
16	Igor Sirnik	Res. Scholar	Rennes 2,	Expert Lecture	2016		
			France		2010	Jaipur	



			University of	Maatina and	7/7/2016	
1-	Prof. Keith			Meeting and		MNIT,
17	Clarke	Professor	,	Lectures in GIAN	&	Jaipur
			Santa Barbara	Course	8/7/2016	1
	Prof.		Putra	Lectures in GIAN	7/7/2016	MNIT,
18	Biswajeet	Professor	University	Course	&	Jaipur
	Pradhan		Santa BarbaraPutraUniversityMalaysiaiatesor,icalLoughboroughuniversity, UKUniversity, UKuniversity, UKnent,Design ofg, KIT,culverts, smallbridges andcauseways asper IRC-SP: 13,IRC-SP: 20 &IRC-SP: 82.NationalPotholeAsphaltroads and Howy,torepairpotholes	Course	8/7/2016	Jaipui
19	Dr. Diganta Das	Associate professor, Chemical Engineering Department,	0 0	Expert lectures in CET 669 Contaminant TransportM.Tech. course	24/2/2017 2017	MNIT Jaipur
20	Prof. A.N.Arora	Prof.Civil Engineering, KIT, Jaipur	culverts, small bridges and causeways as per IRC-SP: 13, IRC-SP: 20 &	Expert Lecture	21.04.16	MNIT Jaipur
21	Prof. P.S.Kandhal,	Director Emeritus, National Center for Asphalt Technology, Auburn University, USA	Pothole free roads and How to repair	Expert Lecture	16.09.16	MNIT Jaipur



S. No.	Name of the Organizing	Designation	Title of Event	Place	Date(s)	Funding
	Secretary					Agency
1.	Prof. A.B, Gupta, Rohit Goyal and Dr. Urmila Brighu	Prof. Prof. Assoc. Prof.	Referesher courses for the PHED Engineers-16 two days training programs	MNIT Jaipur	Between 15 <sup>th</sup> Dec. 2016 to 6 <sup>th</sup> March 2017	WSSO, PHED, Rajasthan
2	Dr. M.K. Jat	Associate Professor	GIAN Course on "Land use/ land cover change modelling and prediction", in Collaboration with University of California, Santa Barbara, USA.	MNIT, Jaipur		
3	Dr. Sandeep Chaudhary	Associate Professor	STTP On Precast and Prefabricated Building	MNIT, Jaipur	December 26-30, 2016	MNIT

### Seminar/Conference/Workshop/Short Term Course organized



#### **DEPARTMENT OF CHEMISTRY**

### Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S.	Name of	Title of Event	Place	Date(s)	Title of Keynote	Theme	Funding
No.	the				address		Agency
	Faculty						
1.	Dr. Raj	National	Thiruvananthapuram	03-12-16	Aqueous phase	Chemistry	CSIR project
	Kumar	Conference	695527,		CarbonCarbon		
	Joshi		Kerala,		Coupling		
					reaction		
					catalyzed with		
					Unique PdNHC's		
					chalcogen		
					consisting		
					pincer complexes.		
2	Dr. Sandeep Chaudhary	International Conference on "Current Trends in Chemical Sciences"	Perm, Russia	19-10-16	Artemisinin Derived Stable Ozonides: Synthesis, Chemistry, X-ray studies, in vitro and in vivo Anti- tubercular activities, SAR and molecular docking studies	Indo- Russia Vist	DST-RFBR Indo- Russian Joint Research Project
3	Dr. Sumit Kumar Sonkar	Govt.Engineering College,Bikaner	Expert Lecture	2-9-16	Govt.Engineering College,Bikaner		Govt. Engineering College,Bikaner



S.	Name of the	Title of Event	Place	Funding	Date(s)
No.	Faculty			Agency	
1	Dr. Jyoti Joshi	8 th International	Thailand	MNIT Jaipur	15-03-17 to 17-
		Conference			03-17
		(I-SEEC 2017)			
2.	Dr. Jyoti Joshi	2 <sup>nd</sup> National	BITS Pilani K K	MNIT Jaipur	February 14-
		Conference on	Birla Goa Campus,		16, 2017
		New Frontiers in	Goa		
		Chemistry-from			
		Fundamentals to			
		Applications-II			
		(NFCFA2017)			
3.	Dr. Raj Kumar Joshi	Symposium on	Kolkatta	Faculty CPDA	7-11th January
		advance biological			2017
		inorganic			
		chemistry			
4.	Dr. Sandeep	National	Department of		
	Chaudhary	Conference on	Chemistry, Birla	Self	29 <sup>th</sup> -30 <sup>th</sup>
		"Organic	Institute of Science	Sell	August, 2016
		Chemistry in	and Technology		
		Sustainable	(BITS) Pilani,		
		Development:	Pilani, India		
		Recent Advances			
		and Future			
		Challenges"			
		(OCSD-2016)			
5.	Dr. Sumanta Kumar	CRSI-RSC	Gauhati	MNIT Jaipur	02-FEB-2017
	Meher	Symposium in	University,		to 05-FEB-
		Chemistry	Gauhati, India		2017

### Participation of Faculty in National Seminar/Symposia/Workshop/Conference



[	6.	Dr.Sumit Kumar	National	Gauhati	2-5 February
		Sonkar	symposium of		2017
			Chemistry		
			(CRSI)		
ŀ	7.	Dr. Pradeep Kumar	SDMC 2017	Pondicherry	16-19 Feb 2017
	8.	Dr. Pradeep Kumar	TCS 2016	Hyderabad	14-17 Dec. 2016
	9.	Dr. Pradeep Kumar	North West	BITS Pilani	18-19 March
			Discussion Meeting		2017
			SSD 2017		
	10.	Dr. Biman	National	Dept. of	4-6 October,
		Bandyopadhyay	Conference on	Chemistry, NIT	2016
			Recent	Durgapur	
			Developments in		
			Chemistry		
	11.	Dr. Biman	National	Jodhpur Institute	21-22
		Bandyopadhyay	Conference on	of Engineering	November,
			Recent Advances	and Technology,	2016
			in Environmental	Jodhpur,	
			Sciences and	Rajasthan, India	
			Engineering		
			Technologies		
	12.	Dr. Biman	15th Indian	School of	14-17
		Bandyopadhyay	Theoretical	Chemistry,	December,
			Chemistry	University of	2016
			Symposium	Hyderabad, India	
ŀ	13.	Dr. Biman	14th Discussion	Pondicherry,	16-19
		Bandyopadhyay	Meeting on	India	February, 2017
			Spectroscopy		
			and Dynamics of		
			Molecules and		
			Clusters 2017		
l					





14.	Dr. Biman	North-West	BITS Pilani,		18-19 March,
	Bandyopadhyay	Discussion	Rajasthan, India		2017
		Meeting on			
		Spectroscopy,			
		Structure and			
		Dynamics, 2017			
15.	Dr Sudhir Kashyap	Indo-German	Department of	CPDA	February 14-
		workshop on	Chemistry, IIT		16, 2017
		Recent	(BHU) Varanasi		
		Applications of			
		Carbohydrates in			
		Chemistry and			
		Biology			
		(RACCB-2017)			
16.	Dr. Sudhir Kashyap	2 <sup>nd</sup> National	BITS Pilani K K	CPDA	January 28-29,
		Conference on	Birla Goa Campus,		2017
		New Frontiers in	Goa		
		Chemistry-from			
		Fundamentals to			
		Applications-II			
		(NFCFA2017)			
17.	Dr Sudhir Kashyap	National	BITS, Pilani, India	Host	August 29-30,
		Conference on			2016
		Organic			
		Chemistry in			
		Sustainable			
		Development:			
		Recent Advances			
		and Future			
		Challenges			
		(OCSD-2016)			



S. No.	Name of Speaker	Designation &	Topic of Invited	Date	Funding
		Affiliation	Lecture		Agency
1.	Pierre H. Dixneuf	Professor, Institute of	Ruthenium	November	MNIT
		Chemical Sciences,	Catalysts toward	28, 2016	Jaipur
		Rennes	green and		
		University, Rennes	sustainable		
		France	chemistry		
			: Activation of		
			alkynes, alkenes and		
			C-H bonds		
2.	C. P. Rao	Professor,	"Molecular	February	MNIT
		Department of	Engineering for	10, 2017	Jaipur
		Chemistry, IIT	Diverse applications		
		Bombay, Powai,	including		
		Mumbai	Chemosensor:		
			Science behind it &		
			Technology ahead		
			of it		

### Guest Lectures Organized in the Department





S. No.	Name of	Institution /	Purpose of Visit	Date(s) of	Funding
	Faculty	Organization Visited		Visit	Agency
1.	Dr. Ragini Gupta	DRDO, Jodhpur	Expert Lecture	22-03-2017	DRDO, Jodhpur
2.	Dr. Ragini Gupta	Amity university Jaipur	Expert Lecture	16-02-2017	Amity university, Jaipur
3.	Dr. Sandeep Chaudhary	Department of Physical and Organic Chemistry, Jožef Stefan Institute, Ljubljana, Slovenia	Invited Speaker: Transition metal- catalyzed/Organo- Catalyzed C-H Bond Activation/Functionalization: Scope and Applications	23-12-2016 to 1-1-2017	DST- ARRS Indo- Slovenian Joint Research Project

Visit of Faculty Members to other Institutions as an expert/speaker

### Seminar/Conference/Workshop/Short Term Course organized

S. No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1	Dr. Ragini Gupta (Coordinator)	Associate professor	"Two Days International Workshop on Surface engineering"	MRC, MNITJ	, 09 <sup>th</sup> – 10 <sup>th</sup> Dec 2016	MNITJ
2	Dr. Ragini Gupta (Coordinator)	Associate professor	One Day Indo- Canadian Symposium on "Materials Energy and Envoirnment"	MRC, MNITJ	31 <sup>st</sup> Dec, 2016	MNITJ
3	Dr. Sumanta Kumar Meher	Associate professor	"Five Days" Short Term Course on Nanomaterials and its Applications	-	07-11 November 2016	MNIT J





#### **DEPARTMENT OF CHEMICAL ENGINEERING**

### Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S.	Name of the	Title of Event	Place	Date(s)	Title of	Theme	Funding
No.	Faculty				Keynote		Agency
					address		
1.	Prof. S. P.	International	St. Wilfred	4 <sup>th</sup> Feb.	Vacuum	Water	N. A.
	Chaurasia	Conference on	P.G. College	2017	Membrane	purification	
		Environmental	Jaipur		Distillation :		
		awareness,			A promising		
		Protection and			Technology		
		new			for Water		
		Challenges			Purification		
2.	Prof. S. P.	National	Defence Lab	22 <sup>nd</sup>	Vacuum	Water	Indian
	Chaurasia	conference on	Jodhpur	March	Membrane	purification	Desalination
		Desalination		2017	Distillation for		Association
		and Water			Water		
		Purification			Purification		
		for Defence					
		and Civil					
		Applications					
3.	Dr.	Development	BIET, Jhansi	$27^{\text{th}} - 31^{\text{st}}$	Waste to	Development	BIET,
	Subbaramaiah	in Sustainable		March,	Energy	in Sustainable	Jhansi.
	V.	Energy &		2017		Energy &	
		Environment				Environment	
		Protection				Protection	
4.	Dr Sushant	Workshop for	Bundelkhand	March	Advanced	Advanced	BIET,
	Upadhyaya	FD Advanced	Institute of	20, 2017	Mathematical	Mathematical	Jhansi.
		Mathematical	Engineering &		and	and	
		and	Technology,		Computational	Computationl	
		Computational	Jhansi under		Methods in	Methods in	
		Methods in	TEQIP II.,		Engineering	Engineering	
		Engineering					



5.	Dr. R.K.	The National	Department of	8 <sup>th</sup> & 9 <sup>th</sup>	Technology	The National	Maharaja
	Vyas	Seminar on	Environmental	March,	Options for	Seminar on	Ganga
		Environmental	Science,	2017	the Removal	Environmental	Singh
		Management	Maharaja		of Bio-	Management	University,
		& Technology	Ganga Singh		Refractory	& Technology	BIKANER
		(NSEMT -	University,		Organic		
		2017)	BIKANER,		Compounds		
			Rajasthan		(Bio-ROCs)		
6.	Dr. Rajeev	Workshop on	Hindustan		Applications	Workshop on	НСЕТ
	Kumar	Chemical	College of	20-22	of Chemical	Chemical	
	Dohare	Engineering	Engineering	February	Engineering	Engineering	
		Software	and	2017.	Software	Software	
			Technology, Farah, Agra				
7.	Dr. Sushant	National	MNIT Jaipur	12-11-		Water	MNIT
/.	Upadhyaya	Symposium	wirvir suipu	2016		Purification &	Jaipur &
	Opuunyuyu	on Water		2010		Reject	PHED
		Purification &				Management	Rajasthan
		Reject				management	Rujustiiuii
		Management					
8.	Dr. Sushant	Workshop on	BIET Jhansi	20-21	-	-	-
	Upadhyaya	Advanced		March			
		Mathematical		2017			
		and					
		Computational					
		Techniques					
		for					
		Engineering					
9.	Dr. Sushant	Expert Lecture	Amity	9 Sep	-	Application of	-
	Upadhyaya		University	2016		MATLAB in	
			Rajasthan			Engineering	
10.	Dr. Sushant	Induction	MNIT Jaipur	2016-17	-	RO plants,	-
	Upadhyaya	training programme				their operation	
		for newly				and	
		recruited				maintenance	
		PHED					
		engineers					



S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1	Prof. S. P. Chaurasia	66 <sup>th</sup> Canadian Chemical Engineering Conference	Quebec City, Canada	CPDA	16-19 <sup>th</sup> October 2016
3	Prof. S. P. Chaurasia	CHEMCON 2016	Chennai	IIChE	27-30 <sup>th</sup> December 2016
4	Prof. S. P. Chaurasia	International workshop on Materials, Energy and Environment	MNIT Jaipur	N.A.	31 <sup>st</sup> December, 2016
5	Prof. S. P. Chaurasia	International Conference on Environmental awareness, Protection and new Challenges	St. Wilfred P.G. College Jaipur	N.A.	4 <sup>th</sup> Feb. 2017
6	Prof. S. P. Chaurasia	Approval process handbook (2017- 18) of AICTE	MNIT Jaipur	N.A.	17 <sup>th</sup> Feb, 2017
7	Dr. S. K. Jana	CHEMCON2016	IIT Madras, Chennai	CPDA	27-30 <sup>th</sup> December 2016
8	Dr. V. Subbaramaiah	ICWEE-2017, American University of Sharjah	Sharjah	CPDA	Feb 28th-2nd March 2017
	Dr. Dipaloy Datta	ICWEE-2017, American University of Sharjah	Sharjah	CPDA	Feb 28th-2nd March 2017
9	Dr. V. Subbaramaiah	CHEMCON 2017	Anna Unveristy, Chennai, Dec 27 <sup>th</sup> to 30 <sup>th</sup> Dec 2016	CPDA	27-30 <sup>th</sup> December 2016

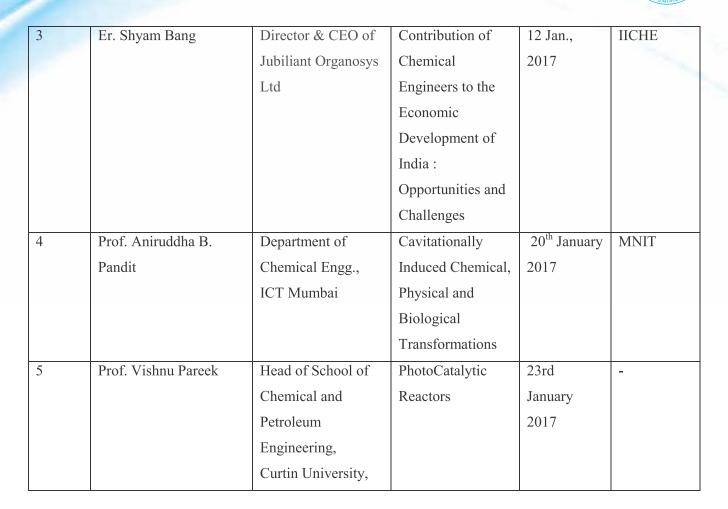
### Participation of Faculty in National Seminar/Symposia/Workshop/Conference



10	Dr. Dipaloy Datta	Analytical Instruments for Chemical and Environmental Engineers (WAICEE-17)	BITS Pilani	CPDA	10 <sup>th</sup> to 11 <sup>th</sup> Feb 2017
11	Dr. V. Subbaramaiah	Analytical Instruments for Chemical and Environmental Engineers (WAICEE-17)	BITS Pilani	CPDA	10 <sup>th</sup> to 11 <sup>th</sup> Feb 2017
12	Dr. U.K. Arunkumar	Analytical Instruments for Chemical and Environmental Engineers (WAICEE-17)	BITS Pilani	CPDA	10 <sup>th</sup> to 11 <sup>th</sup> Feb 2017
13	Dr. Sushant Upadhyaya	CHEMCON 2016	Chennai	IIChE	27-30 <sup>th</sup> December 2016

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation &	Topic of Invited	Date	Funding
		Affiliation	Lecture		Agency
	Mr. Jayant	National Organizing	Aacharaya	3 August	Aacharaya
1	Sahashtrabuddhe	Secretary,	Prafulla Chandra	2016	Prafulla
		Vijnanabharati	Ray "A		Chandra
			Nationalist		Ray
			Scientist"		
2	Dr.Alka Sharma	Department of	Contribution of	3 August	Aacharaya
		Chemistry	Chemistry in eco	2016	Prafulla
		Rajasthan	sustainability		Chandra
		University, Jaipur			Ray



#### Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. Kailash Singh	Manipal University Jaipur	Expert Lecture on "Applications of Differential Equations in Engineering" in one day workshop on "Engineering Applications of Numerical Methods"	28-01-2017	-



### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Prof. Ajay Dalai	Professor	University of Saskatchewan, Canada	For ongoing research collaboration	15-12- 2016 to 21-12- 2016	Partly by MNIT
2.	Prof. Aniruddha B. Pandit	Professor	ICT Mumbai	Invited Talk and Discussion for research collaboration	20-12- 2016	MNIT
3.	Prof. Vishnu Pareek	Professor	Curtin University	Invited Talk	23-1-2017	-
4.	Dr. S. Sridhar	Principal Scientist	IICT-CSIR Lab, Hyderabad	Participating in symposium and discussion for research collaboration	12-11- 2016	MNIT

### Seminar/Conference/Workshop/Short Term Course organized

Convener Convener Co-Convener	Workshop on Fuel Cell	MNIT Jaipur	11-4-2016 to 12-4- 2016	Agency MNIT Jaipur
Convener	<u>^</u>		to 12-4-	
	Fuel Cell	Jaipur		Jaipur
Co-Convener				
Co-Convener				
Co-Convener				
Convener	Symposia on	MNIT	18th Nov.,	MNIT
Convener	Water	Jaipur	2016	Jaipur
Co-Convener	Reject Management			
7	onvener	onvener Water o-Convener Reject	onvener Water Recovery and Reject Jaipur	onvener Water Recovery and Reject 2016



	Dr.Rajeev Kumar	Convener	STC on	MNIT	21-25	MNIT
3	Dohare		Advanced Optimization Techniques (AOT-16)	Jaipur	Nov., 2016	Jaipur
4	Dr. Rajeev Kumar Dohare, Dr.Kailash Singh and Dr. Rajesh Kumar	Convener Convener Convener	National Conference on Process Automation and Control (NCPAC- 2016)	MNIT Jaipur	May 28- 29, 2016	MNIT Jaipur
5	Prof. S.P.Chaurasia Prof. A.B. Gupta	Convener	National Symposium on Water Purification & Reject Management	MNIT Jaipur	12 <sup>th</sup> November, 2017	MNIT Jaipur & PHED Rajasthan





#### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

#### **DEPARTMENT OF ELECTRICAL ENGINEERING** Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S.	Name of the	Title of Event	Place	Date(s)	Title of	Theme	Funding
No.	Faculty				Keynote address		Agency
1.	Prof. R. A.	National	Jaipur	25.02.2017	Industry	Industry	
	Gupta	Building			Institute	Institute	
		Conclave on			Interaction	Interaction	
		"Industry &					
		Institution					
		Interfacing					
2.	Prof. R. A.	International	Mody	Feb 24-25,	Microgrid	Renewable	MNRE
	Gupta	Conference-	University,	2017	Operation	Energy	
		ICRRESG-	Lakshmangarh				
		2017					
3.	Dr.	Short Training	MNIT, Jaipur	10/05/2016	Modulation	STTP	Indian
	Vijayakumar	Program (STP)			schemes:		Railways
	Κ	for supervisors			PWM/AM/FM		
		of Indian			for speed and		
		Railways			VF speed		
					control		
4.	Dr.	Short Training	MNIT Jaipur	10/05/2016	DC/DC	STTP	Indian
	Vijayakumar	Program (STP)			converters,		Railways
	Κ	for supervisors			IGBT based		
		of Indian			battery		
		Railways			chargers		
5.	Dr.	STTP on	MNIT Jaipur	08/10/2016	Logic	STTP	EICT
	Vijayakumar	Recent Trends			development		acdemy
	Κ	in Industrial			tricks,Contacts,		
		Automation			Coil, Related		
		Electronics and			program		
		Control			examples with		
					toggle and		
					push button		e de la companya de l
					switches		



6.	Dr.	STTP on	MNIT Jaipur	08/10/2016	Introduction	STTP	EICT
	Vijayakumar	Recent Trends			on		acdemy
	Κ	in Industrial			Automation		
		Automation			Software		
		Electronics and			CODESYS		
		Control			and examples		
7.	Dr.	STTP on	MNIT Jaipur	10/10/2016	Smart Home,	STTP	EICT
	Vijayakumar	Applications of			and IoT-based		acdemy
	К	Internet Of			Building		
		Things in			automation		
		electrical and					
		electronics					
		engineering					
8.	Dr.	STTP on DC	MNIT Jaipur	12/11/2016	Wind/PV	STTP	TEQIP
	Vijayakumar	Smart Grids:			hybrid system		
	Κ	Renewable			for supplying		
		Integration,			AC/DC		
		Energy Storage			(load/grid)		
		and System					
		Operation					
9.	Dr. Nitin	Workshop on	Manipal	27 <sup>th</sup> May	Electrical	Workshop	Manipal
	Gupta	"Industrial	University	2016	Drives and		University
		Automation &	Jaipur		Associated		Jaipur
		Drives"			Problems		
					Related to		
					Power Quality		
10.	Dr. Nitin	STTP on	Govt. Women	20 <sup>th</sup>	Power	STTP	Govt.
	Gupta	"Electrical	Engineering	September	Quality: An		Women
		Power System	College,	2016	Introduction		Engineering
		Basics:	Ajmer				College,
		Conventional &					Ajmer
		Non-					
		conventional"					



11.	Dr. Rajesh	Workshop on	GEC Jaipur	11/2016	Publishing	GEC Jaipur
	Kumar	Novel			Patents	
		Approaches				
		and Techniques				
		in Research				
		Methodology				
12.	Dr. Rajesh	Short Term	MNIT Jaipur	11/2016	PSO and its	Self
	Kumar course o				Variants	
		Advanced				
		Optimization				
		Techniques				
		AOT'16				
13.	Dr. Rajesh	Short Term	MNIT Jaipur	11/2016	ITHS and	Self
	Kumar	course on			other Variants	
		Advanced			of HS	
		Optimization				
		Techniques				
		AOT'16				
14.	Dr. Rajesh	Short Term	MNIT Jaipur	11/2016	Insight of	Self
	Kumar	course on			DBC	
		Advanced				
		Optimization				
		Techniques				
		AOT'16				
15.	Dr. Rajesh	Short Term	MNIT Jaipur	11/2016	Performance	Self
	Kumar	course on			Measures of	
		Advanced			Heuristic	
		Optimization			Algorithms	
		Techniques				
		AOT'16				
16.	Dr. Rajesh	Short Term	MNIT Jaipur	11/2016	GA and	Self
	Kumar	course on			application in	
		Advanced			Drives	
		Optimization				
		Techniques				
		AOT'16				



17.	Dr. Rajesh	National	MNIT Jaipur	10/2016	Ageist Spider	MNIT
	Kumar	Workshop on			Monkey	Jaipur
		Nature Inspired			Algorithm	
		Optimization				
		(NIO-2016)				
18.	Dr. Rajesh	National	MNIT Jaipur	10/2016	Binary Grey	MNIT
	Kumar	Workshop on			Wolf	Jaipur
		Nature Inspired			Optimization	
		Optimization			Algorithm	
		(NIO-2016)				
19.	Dr. Rajesh	Invited talk	SKIT Jaipur	09/2016	Development	SKIT
	Kumar				of Demand	Jaipur
					Side	
					Management	
					System	
20.	Dr. Rajesh	MATLAB	JK	09/2016	Insight of	
	Kumar	Workshop	Lakshmipat		Algorithms	
			University,		_	
			Jaipur			
21.	Dr. Rajesh	Invited Talk	AMITY,	08/2016	Intelligent	
	Kumar		Jaipur		Controllers	
					and Application	
					to Robotics	
22.	Dr. Rajesh	Invited Talk	Banasthali	07/2016	Design of	
	Kumar		University,		Intelligent	
			Banasthali		Systems	
23.	Dr. Rajesh	Short term	MNIT Jaipur	05/2016	Research	
	Kumar	course on			Article writing	
		LaTeX: A			using LaTeX	
		Scientific				
		Writing Tool				
24.	Dr. Rajesh	Short term	MNIT Jaipur	05/2016	Conducting	
	Kumar	course on			Good	
		LaTeX: A			Scientific	
		Scientific			Research	
		Writing Tool				
		-				



25.	Dr. Rajesh	Short Term	MNIT Jaipur	04/2016	Design of	
	Kumar	Training			Intelligent	
		Programme			Controllers for	
		(STTP)			Traction	
		Schedule for			Applications	
		supervisors of				
		Indian				
		Railways				
26.	Dr. Rajesh	Impact of	Jaipur	09/2016	Demand Side	
	Kumar	Renewable			Management	
		Energy			Issues and	
		Integration			Solutions at 6 <sup>th</sup>	
					National	
					Conference on	
					Recent	
					Advancements	
					in Power System	
					Engineering	
27.	Dr. Rajesh	International	Bikaner, India	08/2016	Intelligent	
	Kumar	Conference on			Algorithms for	
		Advances in			WSN	
		Information				
		Communication				
		Technology				
		and Computing				
28.	Dr. Rajesh	IEEE 2016	Kishangarh,	05/2016	Cybernetics	
	Kumar	Conference on	India		Bringing	
		Norbert Wiener			Human and	
		in the 21st			Systems	
		Century			Together	
29.	Dr. Rajesh	5 <sup>th</sup> National	Jaipur	04/2016	Role of	
	Kumar	Conference on			Machine	
		Smart Grid			Intelligence in	
		Technology in			Future Smart	
		Present Senario			grid	
		( SGTPS-16)				- 32



30.	Dr. Rajesh	5 <sup>th</sup> National	Ahemdabad,	04/2016	Battery State	
	Kumar	Conference on	India		Estimation	
		Emerging			using Gray	
		Research			Wolf	
		Trends in			Optimization	
		Engineering				
		(NCERTE-16)				

### Participation of Faculty in National/International Seminar/Symposia/Workshop/Conference

S.	Name of the	Title of Event	Place	Funding	Date(s)
No.	Faculty			Agency	
1.	Dr. Vikas Gupta	IEEE 4th International	MNNIT		March 09-11,
		Conference on Power,	Allahabad	CPDA	2017
		Control & Embedded			
		Systems (ICPCES-2017)			
2.	Dr. Vikas Gupta	A Workshop on DSM	IIT Bombay	CPDA	July 7-8, 2016
		(Demand Side			
		Management)			
3.	Prof. K. R. Niazi	5th International	Venice, Italy	CPDA	14-17
		Conference on Power			December 2016
		Science and Engineering			
		(ICPSE 2016)			
4.	Sh. Praveen K	5th International	Venice, Italy	CPDA	14-17
	Agrawal	Conference on Power			December 2016
		Science and Engineering			
		(ICPSE 2016)			
5.	Dr. Rajive Tiwari	5th International	Venice, Italy	CPDA	14-17
		Conference on Power			December 2016
		Science and Engineering			
		(ICPSE 2016)			
6.	Dr. Anil Swarnkar	5th International	Venice, Italy	CPDA	14-17
		Conference on Power			December 2016
		Science and Engineering			
		(ICPSE 2016)			
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7.	Dr. H. P. Tiwari	International Conference	Putrajoya	CPDA	4 <sup>th</sup> -5 <sup>th</sup> March
			Malasiya	(MHRD)	2017
8.	Dr. H. P. Tiwari	Workshop on	Department		7 <sup>th</sup> -8 <sup>th</sup> July
		Demandside	of Energy		2016
		Management	science and		
			Engineering		
			IIT Bombay		
9.	Dr. Rohit Bhakar	IEEE TENCON	Singapore	MNIT	24 November,
		conference		Jaipur	2016
10.	Dr. Rohit Bhakar	IEEE Power	Boston, USA	DST	July 17 - 21,
		Engineering Society			2016
		General Meeting			
11.	Dr. Rohit Bhakar	Workshop on "Demand	IIT Bombay	IIT	7 – 8 July 2016
		Side Management"		Bombay	
12.	Dr. Rohit Bhakar	HEAPD project meeting	University of	DST	11-12 June,
			Bath		2016
13.	Dr. Arun Kumar	IEEE PIICON 2016	Bikaner	GEC	25-27
	Verma			Bikaner	November, 2016
14.	Dr. Vijayakumar K	IEEE International	Nurenberg,	CPDA	November 30th
		Electric Drives	Germany		- December 1st,
		Production Conference			2016
15.	Dr. Vijayakumar K	Visvesvaraya PhD	IISc,	DeitY	20-21 Feb 2017
		Scheme Workshop	Banglore		
16.	Hemant Kumar	MEDIMG 2016	IIT Delhi	TEQIP-	14April-16
	Meena			IIT D	April,2016
17.	Dr. Nitin Gupta	Embedded System	Department	CPDA	$20^{\text{th}}$ June – $24^{\text{th}}$
		Design	of Electrical		June 2016
			& EC		
			Engineering,		
			Indian		
			Institute of		
			Technology		
	Const.		(IIT)		
			Kharagpur		



18.	Dr. Nitin Gupta	IEEE International	SSN College	CPDA	16 <sup>th</sup> March –
		Conference on Power	of		18 <sup>th</sup> March,
		and Embedded Drive	Engineering,		2017
		Control (ICPEDC-2017)	Chennai		
19.	Dr. Prerna Jain	National Power System	IIT	CPDA	19-21
		Conference (NPSC 2016)	Bhubneshwar		December, 2016
20.	Dr. Rajesh Kumar	IEEE International	Trivandrum,	MNIT,	12/2016
		Conference On Power	India	Jaipur	
		Electronics, Drives and			
		Energy Systems			
		(PEDES 2016)			
21.	Dr. Rajesh Kumar	6th National Conference	Jaipur, India	MNIT,	09/2016
		on Recent		Jaipur	
		Advancements in Power			
		System Engineering			
22.	Dr. Rajesh Kumar	International Conference	Bikaner,	MNIT,	08/2016
		on Advances in	India	Jaipur	
		Information			
		Communication			
		Technology and			
		Computing			
23.	Dr. Rajesh Kumar	IEEE 2016 Conference	Kishangarh,	MNIT,	05/2016
		on Norbert Wiener in the	India	Jaipur	
		21st Century			
24.	Dr. Rajesh Kumar	5th National Conference	Jaipur	MNIT,	04/2016
		on Smart Grid		Jaipur	
		Technology in Present			
		Senario (SGTPS-16)			
25.	Dr. Rajesh Kumar	5th National Conference	Ahemdabad,	MNIT,	04/2016
		on Emerging Research	India	Jaipur	
		Trends in Engineering			
		(NCERTE-16)			
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	S.	Name of the	Name of the Course	Place	Funding	Date(s)
	No.	Faculty			Agency	
·	1.	Dr. Vikas Gupta	Short term course on Advances in Power Electronics for Machine Drives (APEMD- 2016)	NIT Mizoram	TEQIP phase II	Oct.21- 23, 2016
-	2.	Sh. Hemant Kumar Meena	Summer Research Faculty Fellow	IIT Delhi	MNIT Jaipur	19-05- 2016 to 14-07- 2016

### Participation of Faculty in Short Term Courses in India

### Expert Lecture delivered by Faculty Members in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Dr. Rohit Bhakar	Assistant Professor, MNIT Jaipur	"Challenges for power system operation in uncertain environment" for a one week STC on "DC Smart Grids: Renewable Integration, Energy Storage and System Operation"	November 10-14, 2016	MNIT Jaipur
2.	Dr. Rohit Bhakar	Assistant Professor, MNIT Jaipur	"Data Analytic Challenges for Smart Distribution Networks" ICT Academy sponsored short term course on "Big Data Analytics for Smart Grids", MNIT Jaipur.	December 10-14, 2016	MNIT Jaipur
3.	Dr. Arun Kumar Verma	Assistant Professor, MNIT Jaipur	"EV Integration to Grid" for a one week STC on "DC Smart Grids: Renewable Integration, Energy Storage and System Operation" from.	November 10-14, 2016	MNIT Jaipur
4.	Dr. Arun Kumar Verma	Assistant Professor, MNIT Jaipur	"Smart Grid" ICT Academy sponsored short term course on "Big Data Analytics for Smart Grids", MNIT Jaipur.	December 10-14, 2016	MNIT Jaipur



				a the ath	
5.	Dr. Dipti Saxena	Assistant Professor, MNIT Jaipur	Time response of first order and second-order systems InElectronics & ICT Academy sponsored Short Term Course on "Principle of Control Systems Engineering: Hands on Experience with MATLAB"	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy
6.	Dr. Dipti Saxena	Assistant Professor, MNIT Jaipur	Introduction to Control theory and its use in MATLABInElectronics & ICT Academy sponsored Short Term Course on "Principle of Control Systems Engineering: Hands on Experience with MATLAB"	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy
7.	Dr. Dipti Saxena	Assistant Professor, MNIT Jaipur	MATLAB session on functions InElectronics & ICT Academy sponsored Short Term Course on "Principle of Control Systems Engineering: Hands on Experience with MATLAB"	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy
8.	Dr. Dipti Saxena	Assistant Professor, MNIT Jaipur	Introduction to frequency response analysis and its importanceinElectronics & ICT Academy sponsored Short Term Course on "Principle of Control Systems Engineering: Hands on Experience with MATLAB"	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy
9.	Dr. Dipti Saxena	Assistant Professor, MNIT Jaipur	MATLAB APPLICATION on frequency response (part-1) and (part 2)inElectronics & ICT Academy sponsored Short Term Course on "Principle of Control Systems Engineering: Hands on Experience with MATLAB"	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy



10.	Dr. Dipti Saxena	Assistant Professor, MNIT Jaipur	<i>Power Quality in Smart Grid</i> in ICT Academy sponsored short term course on "Big Data Analytics for Smart Grids MNIT Jaipur.	December 10-14, 2016	Electronics & ICT Academy
11.	Dr. Dipti Saxena	Assistant Professor, MNIT Jaipur	Power Quality Analysis: Hands on Experience labin ICT Academy sponsored short term course on "Big Data Analytics for Smart Grids MNIT Jaipur.	December 10-14, 2016	Electronics & ICT Academy
12.	Dr. Prerna Jain	Assistant Professor, MNIT Jaipur	"Deregulation of Electric Supply Industry, Electricity Market participants' perspective and Bidding Strategy" for a one week STC on "DC Smart Grids: Renewable Integration, Energy Storage and System Operation"	November 10-14, 2016	MNIT Jaipur
13.	Dr. Prerna Jain	Assistant Professor, MNIT Jaipur	"Smart Grids and Electricity Markets" ICT Academy sponsored short term course on "Big Data Analytics for Smart Grids", MNIT Jaipur.	December 10-14, 2016	MNIT Jaipur
14.	Dr. Satyanarayana Neeli	Assistant Professor, MNIT Jaipur	System representation and importance of impulse response, inElectronics & ICT Academy sponsored Short Term Course on "Principle of Control Systems Engineering: Hands on Experience with MATLAB"	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy



15.	Dr.Satyanarayana Neeli	Assistant Professor, MNIT Jaipur	State space representation and importance of discretization, inElectronics & ICT Academy sponsored Short Term Course on "Principle of Control Systems Engineering: Hands on Experience with MATLAB"	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy
16.	Dr. Satyanarayana Neeli	Assistant Professor, MNIT Jaipur	Multiple representations of systems and its importance	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy
17.	Dr. Satyanarayana Neeli	Assistant Professor, MNIT Jaipur	State based control design and its implecations, solutiomns, inElectronics & ICT Academy sponsored Short Term Course on "Principle of Control Systems Engineering: Hands on Experience with MATLAB"		
18.	Dr. Satyanarayana Neeli	Assistant Professor, MNIT Jaipur	<ul> <li>Need of optimal control design and implementation of dynamic programming,</li> <li>InElectronics &amp; ICT Academy sponsored Short Term Course on"Principle of Control Systems Engineering: Hands on Experience with MATLAB"</li> </ul>	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy



19.	Dr.	Assistant	Control prespectives and	November	MNIT
	Satyanarayana	Professor,	challenges for robust control	10-14,	Jaipur
	Neeli	MNIT	design, in DC Smart Grids:	2016	
		Jaipur	Renewable Integration, Energy		
			Storage and System Operation"		
20.	Dr. Kusum	Assistant	Artificial Neural Networks and	21-25,	Self-
	Verma	Professor,	Support Vector Machines", Short	Nov. 2016	Financed
		MNIT	Term Course on "Advanced		
		Jaipur	Optimization Techniques", MNIT		
			Jaipur		
			-		

### Visit of Faculty Members to other Institutions as an expert/speaker

S.	Name of	Institution /	Purpose of Visit	Date(s) of	Funding
No.	Faculty	Organization Visited		Visit	Agency
1.	Prof. R. A. Gupta	Commonwealth Educational Media Centre for Asia	OER Policy for Higher Education in India	3 <sup>rd</sup> March and 18 <sup>th</sup> March 2017	CEMCA
2.	Dr. Rohit Bhakar	Future Challenges to Evolving Green Grids	National Workshop on Green Energy and Technology	1-5 February, 2016	GEC Ajmer
3.	Dr. Arun Kumar Verma	SGSITS Indore	Expert Talk on Electric Vehicle and Grid communication	20 <sup>Th</sup> Jan. 2017	SGSITS Indore
4.	Dr. Arun Kumar Verma	MITRC, Alwar	Expert Talk on Grid Interfaced SPV	25 <sup>th</sup> March 2017	MITRC, Alwar
5.	Dr. Nitin Gupta	Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat	M.Tech Dissertation Exam	06/08/2016	SVNIT, Surat
6.	Dr. Nitin Gupta	Govt. Women Engineering College, Ajmer	Expert Lecture	20/09/2016	GEC, Ajmer
7.	Dr. Nitin Gupta	University College of Engineering, Kota	M.Tech Dissertation Exam	22/10/2016	UCE, Kota



8.	Dr. Nitin Gupta	SSN College of Engineering,	To Present paper in IEEE Conference,	16/03/07 to 17/03/17	CPDA
		Kalavakkam, Chennai	Chennai		
9.	Dr. Nitin Gupta	Anna University, Chennai	Ph.D. Thesis External Viva-voce	24/03/2017	Anna University
10.	Dr. Rajesh Kumar	GEC Jaipur	Speaker	11/2016	GEC Jaipur
11.	Dr. Rajesh Kumar	SKIT Jaipur	Speaker	09/2016	SKIT Jaipur
12.	Dr. Rajesh Kumar	JK Lakshmipat University, Jaipur	Speaker	09/2016	JK Lakshmipat University, Jaipur
13.	Dr. Rajesh Kumar	AMITY, Jaipur	Speaker	08/2016	AMITY, Jaipur
14.	Dr. Rajesh Kumar	Banasthali University, Banasthali	Speaker	07/2016	Banasthali University, Banasthali
15.	Dr.Vijayakumar K	University of Erlangen –Nuremberg, Germany	Visiting Professor for research collaboration	2-3 Dec. 2016	FAPS lab

### Visitors to the Department

S.	Name of	Designation	Affiliation	Purpose	Date(s)	Funding
No.	the Visitor					Agency
1	Prof. Joel	Director of	National Institute	Research interaction	15	
1.				Research interaction	-	
	Fontaine	Research	of Applied		December,	
			Sciences,		2016	
			Strasbourg,			
			France			
2.	Dr.	Assistant	Department of	Invited Talk:, on	21	MNIT
	Sandeep	Professor	Electrical	"Solar PV Inverters"	November,	Jaipur
	Anand		Engineering, IIT		2016	
			Kanpur			





3.	Prof. N.P. Padhy	Professor	IIT Roorkee	India UK Project Meeting of EPSRC DST funded project on "High Energy and Power Density Solutions to Large Energy Deficits",	12-13 November, 2016	DST, New Delhi
4.	Prof. Sukumar Mishra	Professor	IIT Delhi	India UK Project Meeting of EPSRC DST funded project on "High Energy and Power Density Solutions to Large Energy Deficits",	12-13 November, 2016	DST, New Delhi
5.	Prof. Chris Dent	Chancellor's Fellow and Reader in Industrial Mathematics	School of Mathematics, University of Edinburgh	India UK Project Meeting of EPSRC DST funded project on "High Energy and Power Density Solutions to Large Energy Deficits",	12-13 November, 2016	DST, New Delhi
6.	Dr. Avinash Aithal	Research Associate	Cardiff University	India UK Project Meeting of EPSRC DST funded project on "High Energy and Power Density Solutions to Large Energy Deficits",	12-13 November, 2016	DST, New Delhi
7.	Dr. Chetan Nag K.S.	Assistant Professor	IISC Bangalore	A talk on "An advice to myself on what is Science all about ?- An Insider's perspective"	8 Nov., 2016	
8.	Dr. Nilanjan Sen Roy	Associate Professor	IIT Delhi	ICT Academy sponsored short term course on "Big Data Analytics for Smart Grids", MNIT Jaipur.	December 10-14, 2016	MNIT Jaipur



### Seminar/Conference/Workshop/Short Term Course organized

S. No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Prof. R. A. Gupta Dr. Nitin Gupta	Professor	Applicartion of Custom Power Devices for Power Quality Improvement	MNIT, Jaipur	6 <sup>th</sup> -8 <sup>th</sup> Oct., 2016	DIETY
2.	<ul> <li>Dr. H. P. Tiwari</li> <li>Dr. Rohit Bhakar</li> <li>Dr. Prerna Jain</li> <li>Dr. Vijaykumar K</li> <li>Dr. Satyanarayan</li> <li>Neeli</li> <li>Dr. Arun Kumar</li> <li>Verma</li> </ul>	Associate Professor	STC on DC Smart Grid Renewable Integration Energy Storage and systemoperation	Electrical Engineering Department MNIT Jaipur	10 <sup>th</sup> -14 <sup>th</sup> November 2016	MHRD /TEQIP-II
3.	Dr. Kusum Verma	Assistant Professor	Short Term Course on "Advanced Optimization Techniques"	MNIT, Jaipur	21.11.2016 to 25.11.2016	Self- Financed
4.	Dr. Rohit Bhakar Dr. Dipti Saxena Dr. Prerna Jain	Coordinator	Short term course on "Big Data Analytics for Smart Grids"	MNIT Jaipur	December 10-14, 2016	ICT Academy



5.	Dr. Rohit Bhakar	Coordinator	International Seminar on IEEE: Vision and Reach Short term	MNIT Jaipur MNIT	23 December, 2016 06 <sup>th</sup> -08 <sup>th</sup>	IEEE student branch, MNIT Jaipur CDAC-
0.	Dr. Nitin Gupta	Professor	Course on "Application of Custom Power Devices for Power Quality Improvement"	Jaipur	October, 2016	Trivendrum & MeiTY Delhi
7.	Dr. Dipti Saxena Dr. Satyanarayan Neeli	Coordinator	Short term course on "Principle of Control Systems Engineering: Hands on Experience with MATLAB"	MNIT Jaipur	25 <sup>th</sup> -29 <sup>th</sup> March 2017	Electronics & ICT Academy
8.	Dr. Vijayakumar K	Coordinator	STTP on Recent Trends in Industrial Automation Electronics and Control	MNIT, Jaipur	08/10/2016 to 12/10/2016	EICT
9.	Dr. Vijayakumar K	Coordinator	STTP for Supervisors of Indian Railways	MNIT, Jaipur	09/05/16 to 13/05/16	Indian Railways
10.	Dr. Vijayakumar K	Coordinator	STTP on Applications of Internet Of Things in electrical and electronics engineering	MNIT, Jaipur	28/01/2017 to 01/02/2017	EICT



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11.	Dr. Vijayakumar K	Coordinator	STTP on Emerging Trends in Industrial Automation and Process Control	MNIT, Jaipur	01/04/2016 to 04/04/2016	Self
12.	Dr. Prerna Jain	Coordinator	ICT Academy sponsored short term course on "Big Data Analytics for Smart Grids", MNIT Jaipur.	MNIT Jaipur	December 10-14, 2016	ICT Academy
13.	Dr. Prerna Jain	Coordinator	Short term course on "DC Smart Grids: Renewable Integration, Energy Storage and System Operation"	MNIT Jaipur	November 10-14, 2016	MNIT Jaipur
14.	Dr. Rajesh Kumar	Course Coordinator	A short term course on Advanced Optimization Techniques (AOT-16)	MNIT Jaipur	21-25 Nov 2016	Self
15.	Dr. Rajesh Kumar	Convener	National Conference on "Process Automation and Control	Jaipur	05/2016	MNIT Jaipur



#### **Industrial Visit organized**

S. No	Name of the Visit Incharges	UG Class	Title of Event	Place	Date(s)	Funding Agency
1	Dr. H. P. Tiwari Dr. Satyanarayana Neeli	Students of III and V semester (B. Tech Electrical)	Industrial Visit	Chandigardh, Manali, Baddi	9 <sup>th</sup> -16 <sup>th</sup> October 2016	TEQIP-II

#### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING** Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Prof K K Sharma	National workshop "Computational Electronics and Nanotechnology (CENT-2016)" during 11 -12 November, 2016.	Manipal University Jaipur	11/12/16	Modeling and simulation of systems	Computational Electromagnetics	Manipal University Jaipur
2.	Prof K K Sharma	National Workshop on "Recent Trends in Digital Image Processing & Computer Vision"	RTU Kota	01/22/17	Image compression algorithms	Image Processing	RTU, Kota
3.	Dr. Chitrakant	Digital CMOS Devices & Circuits	Jaipur	September 17-21, 2016	Introduction to Advance CMOS technologies		EICT Academy
4.	Dr. Chitrakant	Short Term Training Program on "VLSID-SoC& Micro-nano Technologies"	Raipur	September 26-30, 2016.	Recent trands in low power nanoelectronics.	Workshop	TEQIP



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5.	Dr.	IEEE	Raipur	Dec. 19-	Recent changes	Conference	IEEE
	Chitrakant	International Symposium on Nanoelectronic and Information Systems (iNIS)		21, 2016	in Internet of things		
		2016					
6.	Dr. S. J. Nanda	Conference- IEEE UPCON 2016	IIT Banaras Hindu University	CPDA, MNIT Jaipur 09-11 Dec. 2016			
7.	Dr. S. J. Nanda	Conference- IEEE VDAT 2016	IIT Guwahati	Self 24-27 May. 2016			
8.	Vijay Janyani	Invited talk	Taiwan	19-25 Dec 2016	Photonic Crystal based solar cells	Photonic Devices	SPIE, USA
9.	Dr. Ghanshyam Singh	Science 3T Forum	Samara, Russia	Nov. 22- 25, 2016	Integrated Photonics	SPIE Visiting Lecturer	SPIE USA
10.	Dr. Lava Bhargava	Microsoft workshop on moocs and flip class-rooms.	MNIT, Jaipur				
11.	Dr. Lava Bhargava	Recent advancement in technologies.	MAIET, Jaipur	9-11th April 2016	FPGA Applications in Communication Technology	National Conference on New Vistas of Development in Communication Technology NVDCT	



S.	Name of the	Title of Event	Place	Funding	Date(s)
No.	Faculty			Agency	
1.	Prof K K Sharma	National Workshop on	UPES, Dehradun	MNIT	Sep 16-18,
		Symbolic 2D/3D Image			2016
		Processing Using LIPS			
2.	Dr. M. Ravi	International Conference on	MNIT	MNIT	$18^{\text{th}} - 19^{\text{th}}$
	Kumar	Optical and Wireless			March 2017
		Technologies			
3.	Dr. Chitrakant	National Symposium on	Bangalore	INUP	June 29-30,
		Nano Science and			2016
		Technology			
4.	Dr. Chitrakant	IEEE International	Gwalior	IEEE	Dec. 19-21,
		Symposium on			2016
		Nanoelectronic and			
		Information Systems (iNIS)			
		2016			
5.	Dr. Chitrakant	IEEE Electron Devices	Toyama, Japan	IEEE	Feb. 28 to
		Technology and			March 3, 2017
		Manufacturing Conference			
		(EDTM),			
6.	Dr. Ritu Sharma	International conference on	MNIT Jaipur	Self	18-19, 2017
		optical and wireless			
		technology-2017			
7.	Dr. Ghanshyam	Science 3T Forum	Samara, Russia	SPIE USA	Nov. 22-25,
	Singh				2016
8.	Dr. Ghanshyam	International Conference	MNIT Jaipur	MNIT	March 18-19,
	Singh	OWT-2017		Jaipur	2017

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference



S.	Name of the	Name of the Course	Place	Funding	Date(s)
No.	Faculty			Agency	
1.	Dr. Chitrakant	Digital CMOS Devices &	MNIT Jaipur	EICT	September
		Circuits		Academy	17-21,
					2016
2.	Dr. Chitrakant	Short course on Modeling and	IIT Kanpur	IIT Kanpur	13-17
		Simulation of Nano-Transistors			Feb. 2017
3.	Dr. S. J. Nanda	GIAN course on 'Advanced	NIT Rourkela	MHRD,	06 <sup>th</sup>
		Digital Signal Processing'		Govt. of	March to
				India	$10^{\text{th}}$
					March
					2017
4.	Dr. Ghanshyam	Recent Advances in	Manipal	E & ICT	28-11-
	Singh	Communication Technologies	University	Academy,	2016 to
			Jaipur	MNIT Jaipur	03-12-
					2016

#### Participation of Faculty in Short Term Courses in India

#### Guest Lectures Organized in the Department

S.	Name of	Designation &	Topic of Invited	Date	Funding
No.	Speaker	Affiliation	Lecture		Agency
1.	Dr. Smagul Zh. Karazhanov	Senior Researcher, Department for Solar Energy, Institute for Energy Technology, Kjeller, Norway	Solar cells, materials, and modelling	10th February 2017	SPIE
2.	Prof Y K Vijay,	Former Professor UoR, President, Vivekananda Global University, Jaipur	Photonics: Basics and Advances in Material Technology	30 Nov 2016 at	SPIE



3.	Dr. Paolo Minzioni	Associate Professor, University of Pavia, ITALY	Silicon-Photonics Low-loss Integrated Filters	17/03/2017	OSA USA
4.	Dr. Signang Yang	Associate Professor, Singhua University Biejing, CHINA	Nonlinear wavelengt h generation in phot onic crystal fibers	17/03/2017	SPIE USA

#### Visit of Faculty Members to other Institutions as an expert/speaker

S.	Name of	Institution / Organization	Purpose of Visit	Date(s) of	Funding Agency
No.	Faculty	Visited		Visit	
1.	Prof K K	Gujarat Technical	Research week 2017	March 9-10,	GTU, Ahmedabad
	Sharma	University, Ahemdabad		2017	
2.	Prof K K	JECRC University	Board of <b>studies</b>	01/11/17	JECRC Uniersity
	Sharma	Jaipur			Jaipur
3.	Prof K K	Poornima University	Session Chair	23-25,	Poornima
	Sharma	Jaipur	2 <sup>nd</sup> International	December -	University
			Conference	2016	
			ICRAIE-2016)		
4.	Dr. S. J. Nanda	SreeVidyanikethan	One Week National	22-27	TEQIP II at
		Engineering College,	Workshop On	August	SreeVidyanikethan
		Tirupati	Emerging Trends In	2016.	Engineering
			Vlsi& Signal		College,Tirupati
			Processing		
5.	Dr. S. J. Nanda	Govt. Engineering	Two Days Workshop	03-04	TEQIP II at
		College Ajmer	on Hands on with	Septeber	Govt. Engineering
			Matlab	2016	College Ajmer
6.	Dr. S. J. Nanda	Govt. Women	STC on Modelling	25-26 Nov.	TEQIP II at
		Engineering College	and Simulation for	2016	Govt. Women
		Ajmer	Research and		Engineering
			Development		College Ajmer



7.	Dr. S. J. Nanda	Manipal University Jaipur	Technical	05-06 May	Manipal
			manuscripts	2016	University Jaipur
			preparation		
			with LaTeX		
8.	Dr. Ghanshyam	Department of Radio	OSA Traveling	31.03.2016	OSA USA
	Singh	Physics and Computer	Lecturer	_	
		Technologies, Belarusian		03.04.2016	
		State University, Minsk,			
		Belarus			
9.	Dr. Ghanshyam	Department of	SPIE Visiting	15.09.2016	SPIE USA
	Singh	Electronics @SPIE	Lecturer	-	
		student chapter of		18.09.2016	
		Tsinghua University,			
		Beijing (China)			
10.	Dr. Ghanshyam	Science 3T Forum	SPIE Visiting	22.11.2016	SPIE USA
	Singh	@SPIE student chapter of	Lecturer	-	
		Kazan University,		25.11.2016	
		Samara (Russian			
		Federation)			
11.	Dr. Ghanshyam	University of cairo,	DST sponsored	28.01.2017	DST Project
	Singh	EGYPT	International joint	-	
			research project	04.02.2017	
12.	Dr. Lava	Suresh GianVihar	Keynote Speaker		
	Bhargava	University, Jaipur			
13.	Dr. Lava	Nirma University,	Keynote Speaker		
	Bhargava	Ahemdabad			
14.	Dr. Lava	University Calgary,	MOUs between	22 October	
	Bhargava	Saskatchewan, York	institutes	2016-1	
		University		November	
				2016	



### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Dr. Tawfik Ismail	Associate Professor	University of Cairo,	DST sponsored International	March 14 – 22, 2017	DST
2.	Dr. HossamSelmy	Associate Professor	Ý I	joint research project		Project
3.	Dr. Serjii	Professor	Lviv National	DST	December	
4.	Dr. BuryyOleh	Associate Professor	Polytechniq University, UKRAINE	sponsored International joint research project	$1^{st} - 15^{th}$ , 2016	DST Project

### Seminar/Conference/Workshop/Short Term Course organized

S. No	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Prof K.K. Sharma Dr Ghanshyam Singh	Professor Asso. Prof.	One day workshop on Quantum communication	Jaipur	09/24/16	TEQIP MNIT Jaipur
2.	D.Boolchandani	Professor	Digital CMOS Devices & Circuits	MNIT Jaipur	Sept 17- 21, 2016	Electronics & ICT Academy, DeitY
3.	D.Boolchandani	Professor	INUP "Familiarization Workshop on Nanofabrication Technologies"	MNIT Jaipur	August 26-27, 2016	Centre for Nano Science and Engineerin g (CeNSE), IISc Bangalore



4	Dr. Amit M.	Coordinator	A and amy Training	MNIT	$3^{rd} - 16^{th}$	MaitV
4.	Joshi, Dr. M. Ravi Kumar	Coordinator	Academy Training Programme on Digital Hardware Design & FPGAs	IVIINI I	Septembe r 2016	MeitY, Govt. of India
5.	Dr. M. Ravi Kumar	Coordinator	Academy Training Programme on Communication Channels for Information Transfer,	MNIT	$29^{\text{th}}$ Novembe $r - 3^{\text{rd}}$ December 2016	MeitY, Govt. of India
6.	Dr. SatyasaiJagannat h Nanda	Assistant Professor	One Day Workshop on Quantam Computing	Dept. of Electronics & Communica tion Engg, MNIT Jaipur, Jaipur, India	24-09- 2016	TEQIP-II, MNIT Jaipur
7.	Dr. SatyasaiJagannat h Nanda	Assistant Professor	Three days National Workshop on Nature Inspired Optimization (NIO-2016)	Dept. of Electronics & Communica tion Engg, MNIT Jaipur, Jaipur, India	21-10- 2016 to 23-10- 2016.	TEQIP-II, MNIT Jaipur
8.	Vijay Janyani	General Chair	International Conference OWT- 2017	Jaipur	March 18- 19, 2017	



9.	Dr. Ghanshyam Singh Dr. Vijay Janyani Dr. Manish Tiwari (From Manipal University Jaipur)	Assosciate Professor	Recent Advances in Communication Technologies	Manipal University Jaipur	28-11- 2016 to 03-12- 2016	E & ICT Academy, MNIT Jaipur
10.	Dr. Lava Bhargava	Associate Professor	Recent Advances in VLSI Testing and Design-for- Test: Timing Tests, Test Compression, Cell Aware Test and Adaptive	Jaipur	July 25 - 29, 2016	GIAN
11.	Dr. Lava Bhargava	Associate Professor	The Science of Remulation for Executable Biology	Jaipur	December 12-16, 2016	GIAN
12.	Dr. Lava Bhargava	Associate Professor	Academy Stakeholders' One Day Workshop On Skill development: Adaptive, Collaborative and Effective paradigm (Dr. S. P. Kochhar, CEO, TSSC & Prof. I. K. Bhat, Prof. V. Sinha)	Jaipur	20th April 2016	Electronics & ICT Academy
13.	Dr. Lava Bhargava	Associate Professor	Synthesis Algorithms for Digital Circuits & Systems	Jaipur	11th -15th Feb. 2017	Electronics & ICT Academy





#### **DEPARTMENT OF HUMANITIES & SOCIAL STUDIES**

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. Nupur Tandon	National Conference on 'Globalisation, Communication, Technology and the Teaching of English'	SKIT Jaipur	SKIT Jaipur	24-25 March 2017
2.	Dr. Nupur Tandon	National Workshop on 'Writing a Research Paper'	MNIT Jaipur	ELTAI and MNIT Jaipur	27-6-2016
3.	Dr. Nupur Tandon	International Workshop on Didactics-German Language	MNIT Jaipur	Indo-German Society & MNIT Jaipur	22-11-2016
4.	Dr Preeti Bhatt	National Conference on Applied Science and Humanities in Engineering (ASHE 2016)	Jaipur Engineering College and Research Centre, Jaipur.	-	9-10 September 2016
5.	Dr Preeti Bhatt	International Conference on "The Past, Present and Post 'Diaspora': New Directions in Diaspora Studies"	University of Mumbai, Mumbai.	MNIT Jaipur	18-20 November 2016
6.	Dr Preeti Bhatt	"Materialities: Objects, Matter, Things" - XIX International Conference of the Forum on Contemporary Theory, Baroda	Dehradun	MNIT Jaipur	18-21 December 2016.



7.	Dr Preeti Bhatt	Attended the Cambridge English Teachers Support Workshop on 'Developing the Four Skills in Preparation for Cambridge English: Business Certificates (BEC)'	Jaipuria Institute of Management, Jaipur		14-15 Oct, 2016
8.	Dr Preeti Bhatt	10th International Conference on Psychology, Language and Teaching (ICPLT) organized by Global Psychology and Language Research Association	Dubai	MNIT Jaipur	20-21 Feb. 2017
9.	Dr Preeti Bhatt	International Conference on "Peaceful and Prosperous South Asia - Opportunities and Challenges" ICSA 2017 organised by from	Jaypee Institute of Information Technology, Noida	MNIT Jaipur	27-29 March, 2017.

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Prof. C.S. Barla	Retd. Professor & Head Department of Economics University of Rajasthan Jaipur	<i>Budget 2017:</i> Remonetising India	20.2.17	MNIT
2.	Prof.Vijay Vir Singh	Director, NITI Aayog Chair University of Rajasthan Jaipur	Demonetisation and its Contents	20.2.17	MNIT



S. No.	Name of	Institution /	Purpose of Visit	Date(s) of	Funding
	Faculty	Organization Visited		Visit	Agency
1.	Dr. Nupur Tandon	JK Lakshmipat University Jaipur	4th meeting of Board of Studies	2-4-2016	-
2.	Dr. Nupur Tandon	MGD Girls' School	Judge, Dexter's Disputation	27-4-2016	-
3.	Dr. Nupur Tandon	JK Lakshmipat University Jaipur	5th meeting of Board of Studies	18-3-2017	-
4.	Dr. Nupur Tandon	SKIT Jaipur	Member of Panel Discussion on English Literature or Literature in English	25-3-2017	-
5.	Dr Preeti Bhatt	S.S.Jain Subodh P.G. College, Jaipur	To deliver an Expert lecture on 'Professional Communication'	12 Nov. 2016	-
6.	Dr Preeti Bhatt	Jaipur Engineering College and Research Centre, Jaipur.	To deliver an Expert lecture on 'Common Errors in English'	3 Feb. 2017	-

#### Visit of Faculty Members to other Institutions as an expert/speaker

#### Seminar/Conference/Workshop/Short Term Course organized

S.	Name of the	Designation	Title of Event	Place	Date(s)	Funding
No.	Organizing Secretary					Agency
1.	Dr. Nupur Tandon	Associate Professor & Head	National Workshop on 'Writing a Research Paper'	MNIT Jaipur	27-6- 2016	ELTAI and MNIT Jaipur
2.	Dr. Nupur Tandon	Associate Professor & Head	International Workshop on Didactics- German Language	MNIT Jaipur	22-11- 2016	Indo- German Society & MNIT Jaipur



3.	Mrs Nanny Tripathi	Associate	Foundation and	MNIT	1 Aug. to	IIIT Kota
	and	Professor	Immersion	Jaipur	6 Aug.	– MNIT
			Programme for		2016	Jaipur
	Dr Preeti Bhatt	Assistant	New Students			
		Professor	of IIIT Kota			
4.	Dr. Preeti Bhatt	Assistant	Communication	MNIT	14-15	IIIT Kota
	and	Professor	Skills	Jaipur	Nov.	– MNIT
	anu	Associate	Workshop for		2016	Jaipur.
	Mrs. Nanny Tripathi		IIIT Kota I			
	1.1.1.1 1.1.1.1.1 1.1.1 P.1.1.1	Professor	Year Students			
			(2016-17)			

#### **DEPARTMENT OF MATHEMATICS**

#### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Dr. KishnenduGongopadhyay,	Associate Professor, The Indian Institutes of Science Education &Research (IISER) Mohali, Punjab.	Introduction to Hyperbolic Geometry	October 07, 2016	MNIT Jaipur
2.	Professor Ravi Sripad Kulkarni,	Distinguished professor, Bhaskaracharya Institute of Mathematics, Pune	Ordinary differential equations, a dynamical viewpoint	27/01/2017	MNIT Jaipur
3.	Prof. M. A. Pathan	Ex-chairman and professor, Department of Mathematics, Aligarh Muslim University, Aligarh.	Number theory to Lie algebra	27/01/2017	MNIT Jaipur
4.	Prof. SzymonDolecki	Professor, Mathematical Institute of Burgundy, Dijon, France	A unified theory of function spaces and hyperspaces	January 19, 2017	Institute



S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. Ritu Agarwal	IIS University, Jaipur	Lectures on LaTeX	October 13-15, 2016	IIS University
2.	Dr. Ritu Agarwal	Government Engineering College, Bikaner	Expert lectures on Mathematics	November 12, 2016	GEC Bikaner

#### Visit of Faculty Members to other Institutions as an expert/speaker

#### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Prof. SzymonDolecki	Professor	Mathematical Institute of Burgundy, Dijon, France	Research Collaboration and Invited Lecture	18-19 January 2017	Institute

#### Seminar/Conference/Workshop/Short Term Course organized

S. No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Dr. Nilama Gupta, Dr. Santosh Chaudhary and Dr. Ritu Sharma	Coordinator	LATEX: A Scientific Writing Tool	MNIT Jaipur	May 23- 27, 2016	Self- Financed
2.	Prof Rashmi Jain and Dr Ritu Agarwal	Coordinators	LATEX FOR Research	MNIT Jaipur	23/07/2016 To 24/07/2016	MNIT Jaipur



#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S. N o.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Prof. G. S. Dangaya ch	National conference on Quality & Automation In Industry- Make In India	KITE Jaipur	11 Feb., 2017	Sustainable automation	Quality & Automation	-
2.	Dr. Amar Patnaik	Advanced Computational and Measurement Techniques in Research	CTAE Udaipur	17-22 Oct. 2016	Expert Lecture on Wear of dental material	Wear of dental material	CTAE Udaipur
3.	Dr. Amar Patnaik	One day workshop on IPR	M.L.V. Govt., College, Bhilwara, Raj	18th January, 2017	Over view of IPR		DST, Rajasthan
4.	Dr. Amar Patnaik	Awareness Program for Industry on "INTELLECT UAL PROPERTY	Jaipur	9-10 February 2017	Intellectual Property - Concept, Identificati on and Creation	IPR	FICCI – IPO
5.	Dr. Amar Patnaik	Advanced Optimization Techniques in Engineering"	College Of Engineering Adoor Pathanamthitta, Kerala	13-17 February 2017	Optimization techniques - for experimental procedure	Optimization	TEQIP phase II



					1		
6.	Dr.	one week short	M.I.T.S.	16-22	Strength	Advances	TEQIP-II
	Amar	term training	Gwalior	Feb,	analysis of	in	Phase
	Patnaik	program on		2017	wind	Manufactur	
		"Advances in			turbine	ing	
		Manufacturing			blade	Systems	
		Systems".					
7.	Dr.	International	JEC Group of	24Februa	Compariso	Advances	JEC Group of
/.	Amar	Conference on	College, Jaipur	ry, 2017	n	in	College,
	Patnaik	Advances in	conege, suipui	19,2017	of Ballistic	Materials,	Jaipur
	1 atrianx	Materials,			Performanc	Design,	Jaipai
		Design,			es of	Systems	
		Systems and			$Al_2O_3$ and	and	
		Manufacturing			AlN	Manufactur	
		(ICMDSM -			ceramics		
		(ICMDSM - 2017),			Cerannes	ing	
		2017),					
8.	Dr.	National	Regional Institut	1st	IPR and	IPR	Regional Insti
	Amar	Workshop on	e of	March,	Patent		tute of
	Patnaik	Intellectual	Education Push	2017	filing		Education
		Property Right	kar Road Ajmer-		procedure		
		(IPR)					
9.	Dr.	National	VGU & VIT	23-24	Recent	Recent	VGU & VIT
	Amar	Conference On	Jaipur	March,	trend in	Innovations	Jaipur
	Patnaik	Recent	1	2017.	Mechanical	In	1
	1 utiluitt	Innovations In		2017.	Engineerin	Mechanical	
		Mechanical			g	Engineerin	
		Engineering			5	g	
						5	
10.	Dr.	A short term	MNIT Jaipur	20 -24	Expert	Research	MNIT Jaipur
	Amar	training		March,20	speaker on	Methodolog	
	Patnaik	program on		17	Taguchi	У	
		"Research			method		
		Methodology",					
11.	Dr.	One day	Jwaharlal Nehru	25 March	Expert	Advance	Jwaharlal
	Amar	national	Government	2017	speaker for	Materials	Nehru
	Patnaik	workshop on	Engineering		Design and		Government
		Non-	College		Developme		Engineering
		Conventional	Sundernagar,		nt of recent		College
		Machining and	Mandi (H.P.)		materials		Sundernagar,
		characterization			for		Mandi (H.P.)
		Techniques for			mechanical		(1111.)
		materials on at			component		



12.	Rakesh Jain	STTP on Research Methodology	MNIT	20-24 March 2017	Data analysis	Research Methodolo gy	SFS
13.	Dr. G. D. Agrawal		SKIT, Jaipur	2-2-2017	Scope of research in EATHE as passive cooling system		
14.	Dr. G. D. Agrawal		SKIT, Jaipur	3-2-2017	Session chair		
15.	Dr. G. D. Agrawal		Madhav University, Pindwara, Sirohi	24-2- 2017	EATHE as passive cooling system		
16.	Dr. G. D. Agrawal		College of Technology and Engineering,Uda ipur	19-10- 2016	An overview of Research carried out on DASC using Nanofluids at MNIT Jaipur		
17.	Dr. G. D. Agrawal		College of Technology and Engineering,Uda ipur	19-10- 2016	Research carried out on EATHE at MNIT Jaipur		
18.	Dr. Dinesh Kumar	National Conference on Recent Innovations in Mechanical Engineering	Vivekananda Institute of Technology (East) Jaipur	23-24 March 2017	New Material Design and Associated Challenges	Advances in Mechanical Design Engineering	Organizer





24	Prof. Dilip Sharma	All India Seminar on Emerging Trend in	Government Polyrechnic Alwar	15/10/16	Future Fuels and Emission Control in	Inaugural Ceremony	Institution of Engineers (India) Alwar Chapter
		Automobile Engineering			Automobiles		
25	. Prof. Dilip Sharma	Awareness Workshop on Intellectual Property Rights (IPR) & Patents	Vivekananda Global University Jaipur	08/10/16	IPR in Academics		
26	. Dr. Gunjan Soni	Beyond Automation & Poka-Yoke- 2017	Maharishi Arvind Institute of Engineering & Technology, Mansarovar Jaipur	24/03/17	Artificial intelligence in Manufactur ing	Quality and Automation	Self-financed

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Prof. S. K. Biswas Dr. Amar Patnaik	Seminar on Researches in Combustion, Detonics and Shock Wave	MNIT JAipur	MNIT Jaipur	8th October, 2016
2.	Rakesh Jain	NCIETM 2016	Mumbai	CPDA	17-19 Nov 2016
3.	Rakesh Jain	ICTiME-2016	Hyderabad	CPDA	23-24 Sep 2016
4.	Dr. Harlal Singh Mali	AIMTDR-2016	COE Pune	CPDA	9-12 Dec 2016
5.	Dr. Harlal Singh Mali	INUP Workshop on Nano Fabrication Technologies	MNIT Jaipur	INUP	26-27 Aug 2016



S.	Name of the	Name of the Course	Place	Country	Funding	Date(s)
No.	Faculty				Agency	
1.	Prof. G S	21 <sup>st</sup> International	Hongkong	Hongkong	CPDA	6-7
	Dangayach	Conference ECBA 2017				March,
						2017
2.	Amit Kumar	33 <sup>rd</sup> Biomedical	Gulfport	USA		March
۷.			Gunpon	USA		
	Singh	Engineering Conference				18-19,
						2017
3.	Dr. Amar	Seminar on Researches	MNIT	MNIT		8th
	Patnaik	in Combustion, Detonics	JAipur	Jaipur		October,
		and Shock Wave		-		2016
4.	Dr. Harlal Singh	International Academic	Portlouis	Mauritius	CPDA	17-18
	Mali	Multi Disciplinary				Feb 2017
		Conference (IAMDC)				

#### **Participation of Faculty in Short Term Courses / Conferences Abroad**

### Participation of Faculty in Short Term Courses in India

S.	Name of the	Name of the Course	Place	Funding	Date(s)
No.	Faculty			Agency	
1.	Dr. Amar Patnaik	Meeting/ Workshop on IPR, DST-Rajasthan	Regional Science Centre, Jaipur	DST Rajasthan	17/01/2017
2.	Dr. G. D. Agrawal	Refresher course on advances in Refrigeration and air conditioning	MNIT Jaipur		12-16, December, 2016
3.	Dr Dinesh Kumar	A GIAN course on "Applied Fatigue & Fracture Mechanics"	IIT Ropar	CPDA	May 16-21, 2016





### **Guest Lectures Organized in the Department**

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Mr. Krishnamoorthy Narasimhan	Technical Manager, Valeo India Pvt. Ltd.	Valeo Innovation Challenge	13-02-2017	
2.	Prof. Yuanhua LIN	Southwest Petroleum University, China	Sour Gas Corrosion and its Measurement	28th February, 2017	MNIT Jaipur
3.	Prof. Yuanhua LIN	Southwest Petroleum University, China	How to grow in teaching and researches	1st March, 2017	MNIT Jaipur
4.	Prof. Yuanhua LIN	Southwest Petroleum University, China	Material Challenges in Petroleum Industry	9th March, 2017	MNIT Jaipur
5.	Prof. Devendra Kumar	IIT, BHU, Varanasi (U.P)	Advance ceramic materials	12th November, 2016	MNIT Jaipur
6.	Mr. Mukul Rastogi	CEO, CDOS Jaipur	Effective utilization of marble dust / Slurry	22nd November, 2016	CDOS Jaipur
7.	Dr. G. D. Agrawal	Associate Professor	Induction training program for PHED newly recruited AEN and JEN	Dec. 2016 to May, 2017	PHED
8.	Dr. G. D. Agrawal	RTU, Kota	External examiner to RTU, Kota for M. Tech. Dissertation examination of two M. Tech. students, Center of energy and environment	June, 2016.	



S. No.	Name of Faculty	Institution / Organization Visited	Purpose ofVisit	Date(s) of Visit	Funding Agency
1.	Prof. A. P. S. Rathore	Faculty of Science and Technology, ICFAI Foundation of Higher Education, Hyderabad	Session Chair at 'International Conference on Emerging Trends in Mechanical Engineering'	23-24, September, 2016	CPDA
2.	Prof. A. P. S. Rathore	Maharana Pratap University of Agriculture and Technology, Udaipur	Expert Lecture	22 June, 2016	-
3.	Prof. G. S. Dangayach	NITTTR, Chandigarh	Golden Jublee Invited talk on "Sustainable Automation"	17 March, 2017	NITTTR Chandigarh
4.	Prof. G. S. Dangayach	NIT Kurukshetra	Invited talk on "Sustainable Manufacturing"	16 Feb., 2017	NIT Kurukshetra
5.	Dr. Amit Kumar Singh	"Advanced Optimization Techniques in Engineering"	Department of Mechanical Engineering, College of Engineering, Adoor, Trivandrum, Kerala	Febyrary 13- 17, 2017	Modern Methods of Optimisation
6.	Rakesh Jain	AMITY University	UGC Expert Committee	9-19 Sep 2016	UGC
7.	Rakesh Jain	Baruipur Govt. Polytechnic (WB)	AICTE Expert Committee	16 Feb 2017	AICTE
8.	Rakesh Jain	Apex Institute of Management and science	RTU inspection	13 Feb 2017	RTU
9.	Dr. G. D. Agrawal	RTU, Kota	External examiner to RTU, Kota for M. Tech. Dissertation examination of two M. Tech. students, Center of energy and environment	June, 2016.	

### Visit of Faculty Members to other Institutions as an expert/speaker



10.	Dr. G. D. Agrawal	Expert to UPSC, New Delhi	IES Mechanical Engineering paper setting	20-2-17 to 22-2-17.	
11.	Dr. G. D. Agrawal	Member of AICTE Expert Visiting Committee (EVC)	surprise visit to three institutes of Udaipur and Abu -road	20-12-16 to 22-12-2016	
12.	Dr. Dinesh Kumar	Vivekananda Institute of Technology (East) Jaipur	Invited talk in the National Conference on Recent Innovations in Mechanical Engineering	24 March 2017	Organizer
13.	Dr. Amar Patnaik	CTAE Udaipur	Expert Lecture on Wear of dental material	17-22 Oct. 2016	CTAE Udaipur
14.	Dr. Amar Patnaik	M.L.V. Govt., College, Bhilwara, Raj	Over view of IPR	18th January, 2017	DST, Rajasthan
15.	Dr. Amar Patnaik	Jaipur	Intellectual Property - Concept, Identification and Creation	9th and 10th February 2017	FICCI – IPO
16.	Dr. Amar Patnaik	College Of Engineering Adoor Pathanamthitta, Kerala	Optimization techniques - for experimental procedure	13th February to 17th February 2017	TEQIP phase II
17.	Dr. Amar Patnaik	M.I.T.S. Gwalior	Strength analysis of wind turbine blade	February 16 <sup>th</sup> – 22 <sup>nd</sup> , 2017	TEQIP-II Phase
18.	Dr. Amar Patnaik	JEC Group of College, Jaipur	Comparison of Ballistic Performances of Al <sub>2</sub> O <sub>3</sub> and AlN ceramics	February 24, 2017	JEC Group of College, Jaipur



19.	Dr. Amar	Regional Institute of	IPR and Patent filing	1st March,	Regional Institute
	Patnaik	Education Pushkar Road Ajmer-	procedure	2017	of Education
20.	Dr. Amar	VGU & VIT Jaipur	Recent trend in	March 23rd	VGU & VIT
	Patnaik		Mechanical Engineering	& 24th, 2017.	Jaipur
21.	Dr. Amar	MNIT Jaipur	Expert speaker on	20th -24th	MNIT Jaipur
	Patnaik		Taguchi method	March	
22.	Dr. Amar	Jwaharlal Nehru	Expert speaker for	25th March	Jwaharlal Nehru
	Patnaik	Government	Design and	2017	Government
		Engineering College	Development of recent		Engineering
		Sundernagar, Mandi	materials for mechanical		College
		(H.P.)	component		Sundernagar,
					Mandi (H.P.)
23.	Prof. Dilip	North Eastern	NBA Accreditation of	06 - 08	NBA
	Sharma	Regional Institute of	UG Mechanical	May16	
		Science &	Engineering		
		Tech,Nirjuli,			
		Itanagar, A. P.			
24.	Prof. Dilip	MAEER's MIT	NBA Accreditation of	16 - 18	NBA
	Sharma	College of	UG Mechanical	Sept. 16	
		Engineering, Paud	Engineering		
		Road, Kothrud, Pune			
		411038,			
25.	Prof. Dilip	Yeshwantrao	NBA Accreditation of	27 - 29 Jan.	NBA
	Sharma	Chavan College of	UG Mechanical	17	
		Engineering, Hingna	Engineering		
		Road,			
		Nagpur441110			
26.	Prof. Dilip	KPR Institute of	NBA Accreditation of	17 - 19	NBA
	Sharma	Engineering and	UG Mechanical	March 17	
		Technology, S.F No.	Engineering		
		204/2, 204/4,			
		Arasur, Coimbatore-			
		641407, Tamil Nadu			



27.	Dr. Harlal Singh Mali	RTU, Kota	External examiner to RTU, Kota for M. Tech. Dissertation examination of two M. Tech. students, of Mech. Engg. Dept.	Aug 2016	RTU Kota
28.	Dr. Harlal Singh Mali	RTU, Kota	External examiner to RTU, Kota for M. Tech. Dissertation examination of one M. Tech. student, of Mech. Engg. Dept.	March 2017	RTU Kota

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Dr. Prabir Sarkar	Associate Professor	IIT Ropar	Deliver talk in GIAN prog	22 Dec., 2016	MHRD
2.	Prof. P N Rao	Professor	University of Northern Iowa. USA	Resource person in GIAN Prog.	19-23 Dec., 2016	MHRD
3.	Sh. Ritesh Agarwal	General Manager	Think Systems Ltd.	Deliver talk in GIAN prog.	20 Dec., 2016	MHRD
4.	Prof. Yuanhua LIN	Professor	Southwest Petroleum University, China	Adj. Professor	28th February, 2017	MNIT Jaipur
5.	Prof R C Batra	Professor	Virginia Polytechnic Institute and State University, Blacksburg, VA	To conduct GIAN Course	19-29 Decemeber, 2017	MHRD
6.	Prof. J Ramkumar	Professor	IIT Kanpur	To deliver Expert lecture	25-26 Nov 2016	MNIT Jaipur



### Seminar/Conference/Workshop/Short Term Course organized

S. No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1	Dr. G. S. Dangayach	Prof. & Head	GIAN program on "Introduction to Sustainable Manufacturing"	Jaipur	Dec.19- 23, 2016	MHRD
2.	Prof. Jyotirmay Matur	Professor	ISHRAE certified traing course	MNIT Jaipur	Nov28-02 Dec,2016	ISHRAE
3.	Prof. Jyotirmay Matur	Professor	Master Trainer Training program on ECBC	Jaipur	Nov 25- 26,2016	UNDP- GEF-BEE
4.	Prof. Jyotirmay Matur	Professor	Workshop on Occupant Productivity in Green Buildings	Jaipur	July 23,2016	University of Salford- UK, ASHRAE, ISHRAE, IGBC, and ISLE
5.	Prof. Jyotirmay Matur	Professor	Workshop on Air Handling Units	MNIT Jaipur	July 13,2016	
6.	Dr. Amit Kumar Singh	Asst Prof	GIAN programme on Advanced Course in Liquid, Interfaces, Droplets and Sprays	MNIT Jaipur	July11, July 15 <sup>th</sup> , 2016	MHRD



7		Prof. A.K.Bhargav,	Professor	Recent	Department	23rd	Self
		Prof.M.K.Banerjee,	Professor	Advances in Ferrous	of Metallurgica	September, 2016	Sponsored
		Dr.Amar Patnaik,	Asst. Professor	Metallurgy	l and materials		
		Dr.Vinod Kumar,	Asst. Professor		Engineering, MNIT Jaipur		
8	•	Prof. S. K. Biswas	Professor	Seminar on	MNIT	8th	Self
		Dr. Amar Patnaik	Asst. Professor	Researches in Combustion,	Jaipur	October, 2016	Sponsored
		Dr. Harlal Singh Mali		Detonics and Shock Wave			
9	•	Dr Dinesh Kumar	Assistant Professor	A GIAN Course on "Analysis of Nonlinear Problems by the Finite Element Method"	MNIT Jaipur	19-29 December, 2016	MHRD
1	0.	Dr. Harlal Singh Mali	Assistant Professor	STTP on "Project based Autodesk Fusion 360-Part-II"	MNIT Jaipur	5th & 9th May 2016	Autodesk
1	1	Dr. Gunjan Soni/Dr. Rajiv Dohare	Assistant Professor	Advanced Optimization Techniques	MNIT Jaipur	24 <sup>th</sup> – 29 <sup>th</sup> November , 2016	Self
1	2	Dr. M.L. Mittal/Dr. Gunjan Soni	Associate/Assit ant Professor	Research Methodology	MNIT Jaipur	20 <sup>th</sup> -24 <sup>th</sup> March, 2017	Self





#### **DEPARTMENT OF MANAGEMENT STUDIES**

#### Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Dr. Satish Kumar	Faculty Development Program	Jaipuria Institute of Mnaagement, Jaipur	December 14, 2016	Systematic Literature Review (SLR) and Meta- Analysis		NA
2.	Dr. Satish Kumar	One week Workshop on Research Methodology	The Centre for Research, Innovation and Training (CRIT),The IIS University, Jaipur	November 24, 2016	Literature Review and Understanding Research Literature &Identifying Research Gaps		NA
3	Dr. Satish Kumar	Workshop on Research Methodology	Department of Management Studies, Jai NarainVyas University, Jodhpur	November 19, 2016	Methods of Data Collection and Publishing in Quality Journals		ICSSR
4	Dr. Monica Sharma	FDP	MPUT, Udaipur	June 20 - July 01, July 2016	Entrepreneurship Development		
5.	Dr. Deepak Verma	STTP	SBMIMSAR, A. Bohar	April 09, 2016	CRM Analytics		
6.	Dr. Deepak Verma	STTP	Faculty of Commerce & Management, BPSMV, Khanpur	April 08, 2016	Predictive Data Analytics		



7.	Dr.	FDP	Dept.	of	Sep	10,	Introduction to	TEQIP
	Deepak		Mechanical		2016		MCDM Analytics	
	Verma		Engg., DO	CR				
			Uni of Sc.	&				
			Tech., Murtha	al				
8.	Dr.	STTP	Dept. of Med	ch.	March	23,	Introduction to	
	Deepak		Engg., MN	IT	2017		Multivariate Data	
	Verma		Jaipur				Analysis	

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Abhilasha Singh Rathore	Vaibhav Global	Supply Chain	16/01/2017	NA
1.	Autore	Limited Jaipur	Management	10/01/2017	11A
2.	Mr. Rakesh K Ranjan	HR Head, Vodafone Rajasthan	Compensation management practice in Vodafone	25/01/2017	NA
3.	Prof. N Ravichandran	Professor, IIM Ahemedabad	Present & Future of MBA program	28/07/2016	NA
4.	Mr.Vijay Vir Singh	Director NITI Aayog Chair, University of Rajasthan Jaipur	Demonetization and its contents	20/02/2017	
5.	Mr.C. S. Barla	Retd.Prof.&FormerHeadDepartmentofEconomics,UniversityofRajasthan Jaipur	Budget 2017: Re- monetizing India	20/02/2017	



S. No.	Name of	Institution /	Purpose of Visit	Date(s) of	Funding
	Faculty	Organization Visited		Visit	Agency
1.	Dr. Deepak Verma	Dept. of Mechanical Engg., DCR Uni of Sc. & Tech., Murthal	ResourcePerson,TEQIP-sponseredFDPonMulti-CriteriaDecisionMakingMethods and Analysis	Sep 10, 2016	TEQIP
2.	Dr. Deepak Verma	Faculty of Commerce & Management, BPSMV, Khanpur	Invited Lecture, Predictive, Data Analysis using IBM SPSS	Oct. 08, 2016	

#### Visit of Faculty Members to other Institutions as an expert/speakera

#### Seminar/Conference/Workshop/Short Term Course organized

S. No.	NameoftheOrganizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Dr. Deepak Verma, DrSatish Kumar, Dr. Divesh Kumar	Assistant Professor	Summer Research School	MNIT Jaipur	June 1-6, 2016	NA
2.	Dr. Deepak Verma, Dr. Satish Kumar, Dr. Divesh Kumar	Assistant Professor	Winter Research School	MNIT Jaipur	January 7- 12, 2017	NA
3.	Dr. Monica Sharma	Assistant Professor	Etiquette and Skill building for interviews	MNIT Jaipur	10- 11/09/2016	NA
4.	Dr. Divesh Kumar	Assistant Professor	Primary data collection, online survey creation, collection of responses and analysis of results	MNIT Jaipur	06/03/2017	NA





#### **DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING**

#### Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Prof. A. K. Bhargava	Two-Day Workshop	MNIT Japur	March 29-30, 2017	Heat Treatment of Aluminium Alloys	Solidification of Castings: Technical and Scientific Aspects	TEQIP
2.	Dr.R.K. Duchaniya	National Conference on Recent Innovations in Mechanical Engineering" (NCRIME)	VIT Campus, Jaipur	March 23 – 24, 2017	Heat –transfer of stimulant materials used in nuclear industry	Recent Innovations in Mechanical Engineering	VIT, Jaipur
3.	Prof. A. K. Bhargava	Two-day training programme	MNIT Jaipur	January 28-29, 2017	Fe-C phase diagram and Carbon steels	Basic Metallurgy	Self sustaining
4.	Prof. A. K. Bhargava	Short term course	MNIT Jaipur	Nov.7- 11,2016	Overview on Nanomaterials	Nanomaterials and Its Applications"	TEQIP
5.	Dr.R.K. Duchaniya	Short term training programme	MNIT Jaipur	Nov. 7- 8, 2016	Surface Coatings & Corrosion Measurement Methods	Nanomaterials and Its Applications	TEQIP
6.	Prof. A. K. Bhargava	Two-day Workshop	MNIT Jaipur	October 21-22, 2016	Heat Treatment of Cast Aluminium Alloys	"Foundry Aspects of Melting & Casting of Aluminium Alloys	TEQIP
7.	Dr. R.K. Duchaniya	Khojprayas 2016	Vivekanand Institute of Technology	April 30, 2016	Use of the Science and technology for the development of mankind		VIT, Jaipur
8.	Prof. M.K. Banerjee	Indo-Canadian Symposium	MNIT Jaipur	2016	Fe- MwcntNanocomposite- A Multidimensional Proposition	Energy Materials	
9.	Prof. M.K. Banerjee	Nanotechnology for Energy Materials	MNIT Jaipur	2016	Thermoelectric Materials	Energy Materials	



S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. Vijay N.N	Metallographic Analysis and Failure Investigation in Industries	Delhi	TEQIP	March 17-18, 2017
2.	Dr. Vinod Kumar	NMD 2016	Kanpur	MHRD	Nov. 11-14, 2016
3.	Prof. Dr. Ashok Sharma	Workshop on "Foundry Aspects of Melting and Casting of Aluminium Alloys"	MNIT Jaipur	TEQIP Phase II Institute of Indian Foundry men, Jaipur Chapter	October 21-22, 2016
4.	Dr. Vinod Kumar	INUP Familiarization Workshop on "Nanofabrication Technologies"	MNIT,Jaipur		August 26-27, 2016
5.	Prof. A. K. Bhargava	Two-Day Training Programme on "Basic Metallurgy"	MNIT,Jaipur	Self funded	January 28-29, 2017

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference

#### Participation of Faculty in Short Term Courses/Conferences Abroad

S. No.	Name of the Faculty	Name of the Conference	Place	Country	Funding Agency	Date(s)
1.	Prof. A. K. Bhargava	The Int. Science, Social Sciences, Engineering and Energy Conference	Pattaya	Thailand	CPDA	March 15- 17, 2017
2.	Prof. U. Pandel	The Int. Science, Social Sciences, Engineering and Energy Conference	Pattaya	Thailand	CPDA	March 15- 17, 2017
3.	Dr. R. K. Duchaniya	The Int. Science, Social Sciences, Engineering and Energy Conference	Pattaya	Thailand	Project	March 15- 17, 2017



	Prof. Dr. Ashok	International Conference	Phuket	Thailand	CPDA	October
4.	Sharma	on Material science and				14-16,
		Engineering Technology				2016
		International Conference	Phuket	Thailand	CPDA	October
5.	5. Dr. R. K. Duchaniya	on Material science and				14-16,
		Engineering Technology				2016

#### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Prof. V.S. Raja	Professor IIT Bombay	Corosion Science		TEQUIP
2.	Prof. M.K. Bhargava	Professor MNIT Jaipur	Experimental Techniques		TEQUIP
3.	ShriGhanshyamJhala	Engineer, Facilitation Centre for Industrial Plasma Technologies, Institute for Plasma Research Gandhinagar (Gujrat)	Plasma Nitriding	August 23, 2016	MNITJ

#### Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose ofVisit	Date(s) of Visit	Funding Agency
1.	Dr. Vinod Kumar	IIT Kanpur	To deliver an invited talk	13 Nov. 2016	MHRD

#### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Dr. Ashish Garg	Professor	IIT Kanpur	Officail		SERB project
2.	Dr. Ajay Dalai	Professor	University of Saskechewan; Canada	Official	20 <sup>th</sup> Dec. 2016	Self



### Seminar/Conference/Workshop/Short Term Course organizeda

S.	Name of the	Designation	Title of Event	Place	Date(s)	Funding	
No.	Organizing					Agency	
	Secretary						
1.	Dr. Vishnu	Coordinator	National Workshop	MNIT	March 09,	Self	
	Kumar Sharma	Coordinator	on "Material response to	Jaipur	2017		
	Kumai Sharma		Micro-structural,	F			
	Dr. Vinod Kumar		mechanical, Thermal and				
			biological stimuli"				
	Dr. Amar Patnaik						
2.	Prof. A.K. Bhargava	Coordintor	National Workshop	MNIT	Jan 28 –	Self-	
			on "Basic Metallurgy"	Jaipur	29, 2017	Financed	
	Dr. R. K. Duchaniya						
3.	Dr. Y.V.S.S. Prasad	Coordintor	Two-day International	MNIT	December	TEQIP	
			Workshop on "Surface	Jaipur	9-10, 2016		
			Engineering"				
4.	Prof. Ashok Sharma	Coordintor	Short term course on	MNIT	Nov.7-	Self-	
4.	PIOL ASHOK Sharma	Coordinitor	"Nanomaterials and Its			Financed	
	Prof. Upender Pandel			Jaipur	11,2016	Financed	
			Applications"				
	Dr. R. K. Duchaniya						
5.	Prof. Ashok Sharma	Coordintor	Workshop on "Foundry	MNIT	October	Self-	
	Prof. Upender Pandel		Aspects of Melting &	Jaipur	21-22,	Financed	
	FIOL Opender Fander		Casting of Aluminium		2016		
			Alloys				
6.	Dr. R. K. Duchaniya	Coordintor	Workshop on	MNIT	October 1-	TEQIP	
			"Metallurgical Analysis	Jaipur	2, 2016		
			by Chemical routes				
	Durf MIZ Descript	Oncernierer/Cause list	National Community	MUT	Careford 1	CDE	
7.	Prof. M.K. Banerjee/	Organiser/Coordintor	National Symposium on	MNIT	September	SDF	
	Dr. V.K. Sharma		"Advances in Ferrous	Jaipur	23, 2016	MoS	
	Dr. Vinod Kumar		Metallurgy"				
	Dr. Amar Patnaik						



8	8.	Dr. S.K. Biswas	Coordintor	Seminar on CDSW	MNIT	October 8,	TEQIP
					Jaipur	2016	
(	9.	Dr. R. K. Duchaniya Dr. Vijay N. N.	Coordintor	Alumni-faculty meet	MNIT Jaipur	July13, 2016	MNIT

#### **DEPARTMENT OF PHYSICS**

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Theme	Funding Agency
01	Dr. Ashok Kumar	Training session on VSim	Begaluru	04-06 October, 2016	Laser-Plasma acceleration via PIC simulation	SERB

#### Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S.	Name of the	Title of Event	Place	Date(s)	Title of	Theme	Funding
No.	Faculty				Keynote		Agency
					address		
1.	Dr. K.	Conference on	NIT	January	Stacked	Optics and	Govt.
	Sachdev	Light- Optics	Calicut	9, 2017	Multilayer	Energy	
					Structure of		
					Transparent		
					Conducting		
					Oxides for		
					Opto-electronic		
					Applications		
2.	Dr. K.	Conference on	DRDO	March	Nanofabricatio	Desalination	Govt.
	Sachdev	Desalination	Jodhpur	22-23,	n and	and Water	
		and Water		2017	characterizatio	Purification	
		Purification			n at MRC		
		for Defence					
		and Civil					
		Applications					
		**					



3.Dr.NationalPoornimaNovemberNanoporousKamlendraWorkshop onUniversit,19, 2016PolymericAwasthiNanotechnoloJaipur.Jaipur.PolymericAwasthiNanotechnoloJaipur.EngineeringFuturisticEngineeringApplicationsApplications(NWNFEA-2016)InstrumentatioBanasthaliDecemberKamlendraSeminar onInstrumentatioBanasthali2016AwasthiInstrumentation andCharacterizati2016	s Seminar
AwasthiNanotechnolo gy for FuturisticJaipur.Membranes: Engineering and Applications (NWNFEA- 2016)4.Dr.National (NWNFEA- 2016)Banasthali UniversityDecember 22-23, 2016Microscopic techniques for polymers4.Dr.National Instrumentatio n and CharacterizatiBanasthali LongDecember polymersMicroscopic techniques for polymers	s Seminar
gy for Futuristic Engineering Applications (NWNFEA- 2016)Engineering Applications (NWNFEA- 2016)Engineering and Applications (NWNFEA- 2016)4.Dr. Kamlendra AwasthiNational Instrumentatio n and CharacterizatiBanasthali Banasthali 2016December techniques for polymers	s Seminar
FuturisticandEngineeringApplicationsApplications(NWNFEA- 2016)4.Dr.NationalBanasthaliKamlendraSeminar on InstrumentatioAwasthiInstrumentatio n and CharacterizatiCharacterizatiUniversityCharacterizati2016	s Seminar
Engineering Applications (NWNFEA- 2016)Applications (NWNFEA- 2016)Applications Applications (NWNFEA- 2016)Applications Applications (NWNFEA- 2016)4.Dr.NationalBanasthaliDecember 22-23,Microscopic techniques for polymers4.Dr.NationalBanasthaliDecember 22-23,Microscopic techniques for polymers4.Dr.NationalBanasthaliDecember 22-23,Microscopic techniques for polymers	c Seminar
Applications (NWNFEA- 2016)Applications (NWNFEA- 2016)Microscopic techniques for polymers4.Dr.NationalBanasthaliDecemberMicroscopic techniques for polymers4.Dr.NationalBanasthaliDecemberMicroscopic techniques for polymers4.Dr.NationalBanasthaliDecemberMicroscopic techniques for polymers	c Seminar
Applications (NWNFEA- 2016)Applications (NWNFEA- 2016)Microscopic techniques for polymers4.Dr.NationalBanasthaliDecemberMicroscopic techniques for polymers4.Dr.NationalBanasthaliDecemberMicroscopic techniques for polymers4.Dr.NationalBanasthaliDecemberMicroscopic techniques for polymers	c Seminar
4.Dr. Kamlendra AwasthiNational Seminar on Instrumentatio n and CharacterizatiBanasthali University Banasthali 22-23, December 22-23, December techniques for polymers	
4.Dr.NationalBanasthaliDecemberMicroscopicKamlendraSeminar onUniversity22-23,techniques forAwasthiInstrumentatioBanasthali2016polymersn andCharacterizatiInstrumentatioInstrumentatioInstrumentatio	
Kamlendra AwasthiSeminar on Instrumentatio n and CharacterizatiUniversity Banasthali22-23, 2016techniques for polymers	
Kamlendra AwasthiSeminar on Instrumentatio n and CharacterizatiUniversity Banasthali22-23, 2016techniques for polymers	
AwasthiInstrumentatio n and CharacterizatiBanasthali2016polymers	
n and Characterizati	
Characterizati	
on Techniques	
(NSICT-2016)	
5. Dr. International IISc Feburary Engineering	g of Int. DST
KamlendraConference onBengaluru11-13,nanoporous	
AwasthiAdvancements2017polymeric	
in Polymeric membranes	for
Materials hydrogen	
APM-2017 separation	
6.Dr.NationalBanasthaliFeburaryPolymer	Workshop
Kamlendra Workshop on Vidyapeeth, 17,2017. nanofilters for	<u>^</u>
AwasthiTheoretical and BanasthaliBanasthalienergy and	
Experimental biological	
Research applications	3
Methodology	
in Basic and	
Environment	
Sciences	
7. Dr. Faculty Departme March Recent	Faculty
Kamlendra development nt of 24, 2017 development	-
Awasthi program on " Applied membrane	program
Innovative Science science and	
Research in and applications.	5.
Science, Humanities,	
Engineering, Bundelkh	
Technology and	
and Institute of	
Management Engineeri	
ng and	
Technology,	
Jhansi(U.P.)	



8.	Dr. Kavita Lalwani	Post CKM- 2016	Tata Institute of Fundamen tal Research	December 3 - 7, 2016	Introduction to Geant4 simulations	MC simulations	CPDA
9.	Dr. Kavita Lalwani	Nano materials and Its Applications	MNIT Jaipur	November 11, 2016	Simulation and Modeling of Silicon Devices	TCAD simulation on Silicon devices	N.A.
10.	Dr. Manoj Kumar	National Workshop on Theoretical and Experimental Research Methodology in Basic and Environment Sciences	Banasthali Vidyapeet h, Banasthali	Feburary 17,2017.	Nanoscale magnetic memory devices	Workshop	

### Participation of Faculty in International &National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. K. Sachdev	IUMRS-ICEM 2016	Singapore	CPDA (MHRD)	July 4 – 8, 2016
2.	Dr.K Venkataratnam Kamma	Workshop on Quantum communications	M.N.I.T. Jaipur	-	September 24, 2016
3.	Dr. SrinivasaRaoNelamarri	National Symposium on Nano Science & Technology	Bangalore	CeNSE, IISc, Bangalore	June 29-30, 2016
4.	Dr. SrinivasaRaoNelamarri	Fourth International Conference on Nanostructured Materials and Nanocomposites (ICNM 2017)	Kottayam, Kerala, India.	MNIT Jaipur	February 10-12 2017



5.	Dr.	International	Allahabad,	MNIT	March 1-3,
	Srinivasa RaoNelamarri	Conference on	India	Jaipur	2017
		Nanomaterials and			
		Nanotechnology			
6.	Dr.	2nd International	Jaipur	N.A	December
	SrinivasaRaoNelamarri	Conference on Soft			12-16, 2016
		Materials			
7.	Dr. Rahul Singhal	ICNANO 2017	Allahabad	MNIT	March 2017
8.	Dr. Kamlendra Awasthi	INSPIRE Faculty Meet	Chandigarh	DST, New	February
			University,	Delhi	10-11, 2017
			Chandigarh,		
			India		
9.	Dr. Kavita Lalwani	9th International	Tata Institute	CPDA	November
		Workshop on the CKM	of		28 -
		Unitarity Triangle	Fundamental		December
		(CKM2016)	Research		2, 2016
10.	Dr. Kavita Lalwani	INUP Familiarization	MNIT Jaipur	N.A.	August 26 -
		Workshop			27, 2016
11.	Dr. Kavita Lalwani	25th B2GM	KEK Japan	N.A.	October 17-
			(participated		21, 2016
			online)		
12.	Dr. Manoj Kumar	INSPIRE Faculty Meet	Chandigarh	DST, New	February
			University,	Delhi	10-11, 2017
			Chandigarh,		
			India		

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Dr. S. Chand	Emeritus Scientist, NPL New Delhi	innovative advances in organic solar cell at NPL New Delhi	November 15, 2016	DST New Delhi
2.	Dr. Avinash Agarwal	Associate Prof, Bareilly college, Bareilly	Heavy ion induced reactions: Complete Fusion Vs Incomplete Fusion	August 29, 2016	DST New Delhi
3.	Prof. S. Agarwal	Professor, Kurukshetra University, Kurukshetra	Low Energy Ion Beam Engineering of Materials	April 13, 2016	DST New Delhi





S. No.	Name of	Institution /	Purpose of Visit	Date(s) of	Funding
	Faculty	Organization Visited		Visit	Agency
1.	Dr. K. Sachdev	Centre for Condensed Matter Sciences, National Taiwan University, Taiwan	Project visit	November 20 – December 1, 2016	GITA
2.	Dr. Rahul Singhal	Amity Institute of Nanotechnology, Noida	Invited Talk	July 14, 2016	Amity Univ.
3.	Dr. Kavita Lalwani	TIFR, Mumbai	To provide hands on session on Geant4 MC simulations	December 3 - 7, 2016	CPDA
4.	Dr. Manoj Kumar	Banasthali University, Rajasthan, India	Expert speaker in a Faculty Development Programme	February 19, 2017	Banasthali University, India
5.	Dr. Manoj Kumar	Bundelkhand Institute of Engineering and Technology, Jhansi U.P., India	Expert speaker in a Faculty Development Programme	March 24-25, 2017	BIET, Jhansi, India

### Visit of Faculty Members to other Institutions as an expert/speaker

### Seminar/Conference/Workshop/Short Term Course organized

S.	Name of the Organizing	Designation	Title of Event	Place	Date(s)	Funding
No.	Secretary					Agency
1	Dr. Kamlendra Awasthi Dr. Manoj Kumar	Assistant Professor	International Conference on Soft Materials (ICSM 2016)	MNIT, Jaipur	December 12-16, 2016	DST, New Delhi, DAE- BRNS, Mumbai, CSIR,
						New Delhi
2.	Dr. Kavita Lalwani	Assistant Professor	TEDEX	MNIT Jaipur	October 21, 2016	TEQIP
3.	Dr. Kavita Lalwani	Assistant Professor	BLITZSCHLAG- 2017	MNIT Jaipur	February- 2017	MNIT



#### **11.6** LIST OF CANDIDATES PURSUING/AWARDED Ph.D. OR M. TECH.

#### **DEPARTMENT OF ARCHITECTURE & PLANNING**

#### LIST OF CANDIDATES PURSUING/AWARDED PH.D.

S. No.	Name of student	Supervisor	Торіс	Status
1.	Md. Fuzail Jawaid	Dr. Satish Pipralia, Dr. Ashwani Kumar	Development regulations and resultant urban form	Pursuing
2.	Shweta Choudhary	Dr. Satish Pipralia	Energy efficiency assessment of Indo- saracenic buildings in Jaipur	Pursuing
3.	Neeti	Dr. Ashwani Kumar	Retrofitting for energy efficiency in mid rise apartment buildings	Pursuing
4.	Chandni Chowdhary	Dr. Satish Pipralia	Integrated approach for Heritage-based urban development	Pursuing
5.	Ankit Kashmiri Gupta	Dr. Tarush Chandra	Tansformation in urban towns and cities with special reference to core areas of urban villages.	Pursuing
6.	Manish Sharma	Dr. Ashwani Kumar	Sustainable development	Pursuing
7.	Sunil Sharma	Dr. Ashwani Kumar	Sustainable Buildings	Pursuing



### List of Candidates Awarded M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of Thesis	Status
1.	Anshul Vyas	Integrated Municipal Solid Waste Management of Chittorgarh City	Ar. Meenu Varshney	Degree Awarded
2.	Ranga Anjani	Impact of urbanization on urban water bodies in Hydrabad city	Dr. Nand Kumar	Degree Awarded
3.	Jethva Mehulkumar Mansukh bhai	Assesment of Infrastructure Facilities in residential area of Surat City.	Dr. Nand Kumar	Degree Awarded
4.	Bilal Ahmad	Planning strategies to improve urban mobility through decongestion in the city of Moradabad	Dr. Pooja Nigam	Degree Awarded
5.	Sakshi Bansal	An Assesment of residential area compaction in Jaipur City.	Dr. Satish Pipralia	Degree Awarded
6.	Brujbhanu Chandrawansh	Study of transformation of settlement in the periphery of Naya Raipur.	Ar. Kalpana Pandit	Degree Awarded
7.	Raunak Prasad	Planning strategies for the redevelopment of slums in lucknow city	Ar. Niruti Gupta	Degree Awarded
8.	Gagan Kumar Tanwar	Optimsation of Decentralised syatem of waste water management of faridabad city	Prof. Rajeev Shrinigi	Degree Awarded



9.	Indrajeet Panchariya	Impact of textile industries on water resources. A case of pali city.	Dr. Tarush Chandra	Degree Awarded
10.	Boudh Kuldeep Harjivanlal	Assesment of quality of public open space in Alwar city	Prof. Alok Ranjan	Degree Awarded
11.	Manisha Sharma	Planning strategies for the decvelopment of Amanishah Nala,Jaipur	Ar. Rina Surana	Degree Awarded
12.	Jogeshwar Singh	Augmentation of infrastructure facilities in Riverfront area near Sangam Allahbad.	Dr. Tarush Chandra	Degree Awarded
13.	Meenu Chaudhary	Planning interventions for non-motorized transport in Chandigarh	Dr. Ashwani Kumar	Degree Awarded
14.	Dilip Kumar Nimesh	Planing strategies for Redevelopment of Derelict Industrial Area	Dr. Satish Pipralia	Degree Awarded



#### **CENTRE FOR DISASTER MITIGATION AND MANAGEMENT**

#### LIST OF CANDIDATES PURSUING /AWARDED PH.D.

S. No.	Name of student	Supervisor	Торіс	Status
01	Rajshree Charan	Prof M K Shrimali & Dr. SD. Bharti	Mitigation of multi-hazard analysis	Ongoing, joined in January, 2012
02	Arnav Anuj Kasar	Prof M K Shrimali & Dr. SD. Bharti Dr. Rupen Goswami (IIT Madras)	Seismic Behaviour of Steel Moment Resisting Frame Connections	Awarded 2017
03	Vishisht Bhaiya	Prof M K Shrimali & Dr. SD. Bharti	Seismic performance of lifeline structures	Ongoing, Joined in January 2014
04	Sashi Narayan	Prof M K Shrimali & Dr. SD. Bharti	Progressive Collapse of Damaged Building under Seismic Excitation	Ongoing, July 2015
05	Mohit Bhandari	Prof M K Shrimali & Dr. SD. Bharti	Performance based Design of Base-isolated Building under Far field and Near field Ground Motion	Ongoing, July, 2015
06	Abdeddian Mahdi (Algeria)	Dr. Abdelhafid OUNIS (Algeria)	To reduce the risk of pounding between adjacent Building under string Earthquake	Awarded2017



### List of Candidates Awarded M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of Thesis	Status
1	Rakesh Choudhary 2015PEQ5224	Dr. S. D. Bharti & Prof M. K. Shrimali	Investigation of crack propagation due to earthquake using DIC technique with waste materials.	Awarded
2	P Venkat Kumar 2015PEQ5354	Dr. S. D. Bharti & Prof M. K. Shrimali	Observation based Active Structural Control using Neural Network	Awarded
3	Raaj Sharma 2015PEQ5173	Dr. S. D. Bharti & Prof M. K. Shrimali	Performance of passive TMD under Real and Random Excitation.	Awarded
4	Vasim Ahmad 2015PEQ5427	Dr. S. D. Bharti & Prof M. K. Shrimali	Seismic Response of Tunnel in Double Layered Ground	Awarded
5	Dharamveer Singh 2015 PEQ5326	Dr. S. D. Bharti & Prof M. K. Shrimali	LQR and Neural Network based active control for real earthquake.	Awarded
6	Shailesh Gupta 2015PEQ5139	Dr. S. D. Bharti & Dr. P. V. Ramana	An iterative scheme using wavelet decomposition for strong magnitude earthquake.	Awarded
7	Anju Sasidharan 2015PEQ5312	Dr. S. D. Bharti & Prof M. K. Shrimali	Comparative study of different algorithms for active control of structure.	Awarded
8	Abburi Ramya 2015PEQ5104	Dr. S. D. Bharti & Prof M. K. Shrimali	Influence of geometric and material properties on cyclic behavior of elastomeric isolation system.	Awarded
9	Rajeswari J. 2015PEQ5180	Dr. S. D. Bharti & Prof M. K. Shrimali	Bearing Capacity of Circular Footing Supported on Fiber Reinforced Sand	Awarded



#### **CENTRE FOR ENERGY & ENVIRONMENT**

#### LIST OF CANDIDATES PURSUING /AWARDED PH.D.

S. No.	Name of student	Supervisor	Торіс	Status
1.	Mr. Anuj Mathur	Dr. Sanjay Mathur, Dr. G.D. Agarwal	Passive heating and cooling, heat transfer, CFD	Awarded
2	Mr. Kalkhambkar Vaiju	Dr. Rajesh Kumar, Dr. Rohit Bhakar	Optimal sizing and placement of energy storage in coordination with renewable energy sources	Awarded
3	Mr. Hemant Jain	Dr. Sandeep Srivastava	Study on Water Footprint of the Construction Phase of Multi-storey Residential Concrete Buildings	Ongoing
4	Mr. Mayank Bhatnagar	Prof. Jyotirmay Mathur	Building energy efficiency, Solar thermal, HVAC	Ongoing
5	Mr. Sanjay Jangra	Prof. Jyotirmay Mathur, Dr. Sanjay Mathur	Thermal comfort, Building Energy Conservation, Bio-climatic design, Solar Thermal	Ongoing
6	Mr. Partha Das	Prof. Jyotirmay Mathur, Dr. Rohit Bhakar	Market design and policy framework for sustainable energy storage integration	Ongoing
7	Mr. Prateek Srivastava	Prof. Jyotirmay Mathur	HVAC, Building Energy Efficiency, Combustion	Ongoing
8	Mr. Shashank Vyas	Dr. Rajesh Kumar	Predictive grid analytics for renewable energy integration, islanding behaviour of solar PV inverters, distribution system modelling for smart grids	Ongoing
9	Mr. Shankar Barman	Prof. Jyotirmay Mathur, Dr. Sanjay Mathur	Renewable energy system modelling and product, development, Energy efficiency, SPV application in building, Solar thermal and Thermal energy storage	Ongoing
10	Ms. Priyam Tewari	Dr. Sanjay Mathur, Prof. Jyotirmay Mathur	Passive Heating and Cooling in Buildings, Earth Air Tunnel Heat Exchanger	Ongoing



11	Mr. Shitanshu	Dr. Kapil Pareek	Hydrogen Energy Storage, Fuel Cell	Ongoing
	Sapre		Vehicle	
12	Mr. Avinash	Dr. Amartya	Antireflection Coating, Solar Photovoltaic	Ongoing
	Kumar	Chowdhury		
13	Ms. Falti Teotia	Dr. Rohit Bhakar	Local Energy Market Design	Ongoing
14	Mr. Mayank	Dr. Kapil Pareek	Battery & Super Capacitor	Ongoing
	Vyas			
15	Mr. Bibu	Dr. Tarush	Energy and environmental policy	Ongoing
	Kalyan Nayak	Chandra	implications	
16	Ms. Monika	Dr. Vivekanand	Biomass to Biogas, Residual Resource	Ongoing
	Yadav		Engineering	

### List of Candidates Awarded M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of Thesis	Status
1	Ajay Singh	Dr. Rajesh Kumar	Smart load model by self learning technique for PV integration System (using AI ) (Supply and demand balance in islanding mode and DSM in grid connected mode)	Ongoing
2	Paras Gandhi	Dr Vivekanand	Food waste and Bioenergy, Assessment of Biogas for Jaipur city	Ongoing
3	Subodh Kumar	Dr Vivekanand	Bioenergy and lignocellulosic biomass	Ongoing
4	Shubham Soni	Dr. Kapil Pareek	Modelling and optimal designing of hydrogen storage container	Ongoing
5	Sumit Kumar	Dr. Kapil Pareek	Hybrid energy storage for PV	Ongoing
6	Priyanka Sharma	Prof. Jyotirmay Mathur	Develop and Verify predictive formula for comfort with evaporative cooling in Jaipur	Ongoing
7	Jagdish Lovevanshi	Dr. Amartya Chaudhary	PV Design Of College	Ongoing
8	Praveen Kr.Vidyarthi	Dr. Amartya Chaudhary	PV Design Of College	Ongoing
9	Arjun Gosain	Dr. Tarush Chandra	Rising Energy Demand in Urban neighbourhood in Transformation	Ongoing



10	Prathma Dolas	Dr. Sanjay Mathur	Environmental Impact Assessment of Renewable Energy Technology	Ongoing
11	Tejpal Yadav	Dr. G.D.Aggarwal	Passive Heating and Cooling by Earth Air tunnel	Ongoing
12	Subodh Kumar	Dr. Vivekananda	Biomass potential from low lignin linocellulosic biomass	Ongoing
13	Ankita Singh Gaur	Dr Rohit Bhakar	Power System Planning	Ongoing
14	Soniya Chanwala	Dr Amartya Chowdhury	PV Plant Design	Ongoing
15	Gaurav Vyas	Dr Amartya Chowdhury	Potential of BIPV as a distributed source of energy for MNIT campus.	Ongoing
16	Shoumita Pal	Dr Amartya Chowdhury	Comparative study on use of photovoltaic panels made of different semitransparent materials as BIPV	Ongoing
17	Mahaveer Jain	Dr Kapil Pareek	Hybrid EnergyStorage	Ongoing
18	Simrandeep Singh	Dr Sanjay Mathur	Indoor Air Quality, Thermal Comfort	Ongoing
19	Prateek Sanadhya	Dr Sanjay Mathur	Green Building	Ongoing
20	Mitul Gamit	Dr Rajesh kumar	Electric Vehicle	Ongoing
21	Mukesh Kumar	Dr Rajesh kumar	Demand Side Management	Ongoing
22	Ravi Kumar	Dr Rajesh Kumar	Internet of Things	Ongoing
23	Anand Kumar Saini	Dr Vivekanand	Biomass	Ongoing
24	Kishan Kuamr Prajapati	Dr Vivekanand	Biomass	Ongoing
25	Jyoti Sharma	Dr Rohit Bhakar	Power System Planning	Ongoing
26	Abhishek Kumar	Dr Tarush Chandra	Construction and demolition waste	Ongoing
27	Jitendra Kumar Yadav	Dr Tarush Chandra	Smart city	Ongoing
28	Santosh Kumar	Prof. Jyotirmay Mathur	Radiant cooling System	Ongoing
29	Jaivardhan Singh	Prof. Jyotirmay Mathur	Radiant cooling System, Thermal Storage	Ongoing
30	Ujjwal Singh	Dr Kapil Pareek	Metal hydride based cooling systems	Ongoing





#### **DEPARTMENT OF CIVIL ENGINEERING**

### LIST OF CANDIDATES PURSUING /AWARDED PH.D.

S. No.	Name of student	Supervisor	Торіс	Status
1	Kavita	Dr. K.D. Gupta Prof. A.B. Gupta	Hybrid Disinfection of Sewage Using Chlorine and UV/Ozone in Series to Optimize the Process	Awarded
2	Sukhadeo Tukaram Dhotre	Prof. Gunwant Sharma & Dr. Rohit Goyal	Crop Water Management in Semi-Arid Climatic Zone of Western Maharashtra	Awarded
3	Arnav Anuj Kasar	Prof. M.K. Shrimali Dr. S.D. Bharti & Dr. Rupen Goswami	Mechanics Based Monotonic Load Deformation Curve of Beam Column Joints for Non Linear Seismic Analysis of Steel MRFs	Awarded
4	Gargi Sharma	Dr. Urmila Brighu & Dr. M.K. Jat	Vertical Up-flow Constructed Wetlands to Improve Secondary Treated Wastewater: Microbiological Contaminants Removal	Awarded
5	Ms. Priya Tripathi	Dr. Urmila Brighu	Treatment of textile wastewater using soil as low cost adsorbent"	Awarded
6	Ms. Priyansha Mehra	Dr. R.C. Gupta	"Use of Jarosite in Concrete as Part Replacement of Fine Aggregates and Its Effect on Durability	Awarded
7	Nidhi Poonia	Dr. Mahender Chaudhary	Groundwater modelling using FDM in Chaksu Region	Awarded
8	Pratap Singh	Dr. Mahender Chaudhary	Highway Drainage, Maintenance and Safety: A Case Study	Awarded
9	Vinay Chandwani	Dr. Ravindra Nagar & Dr. Vinay Agarwal	Modeling and Analysis of Ready Mix Concrete Slump using Hybrid Genetic Algorithms- Artificial Neural Networks	Awarded
10	Sarbjeet Singh	Dr. Ravindra Nagar & Dr. Vinay Agarwal	Strength and Durability Studies on Concrete Containing Granite Cutting Waste as Partial Replacement of Sand	Awarded



11	Naveen Kumar Gupta	Dr. A.S. Jethoo & Dr. Sandeep Chaudhary	Study of Temporal Variation of Inflow to the Dams of Rajasthan State with Special Reference to Ramgarh and Bisalpur Dams	Awarded
12.	Manoj Janardan Pawar	Dr. Ravindra Nagar & Dr. Amar Patnaik	Wear and Fracture Characteristics of Stone Dust Filled Polymer Composite for Wind Turbine Blade	Awarded
13	Gaurav Sancheti	Prof. Ravindra Nagar	Application of Artificial Neural Networks in Conceptual Design of Post Tensioned Slabs	Awarded
14	Sandeep Shekhawat	Dr. A.B. Gupta	Hybrid disinfection of sewage	Pursuing
15	Saakshi	Dr. A.B. Gupta & Dr Kailash Singh	Treatability studies for paper and pulp industry effluent	Pursuing
16	Swati Dubey	Dr. Madhu Agarwal & Dr. A.B. Gupta	Defluoridation	Pursuing
17	Lalit Joshi	Dr. A.B. Gupta & Dr. Jyotirmay Mathur	Indoor air pollution- domestic environs	Pursuing
18	Ashok Tambi	Dr. A.B. Gupta & Dr. Sushant Upadhyaya	Desalination	Pursuing
19	Ashish Tambi	Dr Urmila Brighu &	Development of field kit for	Pursuing
		Dr. A.B. Gupta	coliform detection	
20	Praveen Kumar Navin	Dr. Y.P. Mathur	Layout and Component Size Optimisation of Sewer Network Using Spanning Tree and Modified PSO Algorithm	Pursuing
21	Priyamitra Munoth	Dr. Rohit Goyal	Hydrological Modelling of Upper Tapi Basin	Pursuing
22	Hansa Rani Rajput	Dr. Rohit Goyal	Groundwater modelling to study groundwater pollution at Bhiwadi, Rajasthan	Pursuing
23	Kuldeep Tiwari	Dr. Rohit Goyal	Integrated Water Resources Management – A Case Study of Khuskhera –Bhiwadi-Neemrana Investment Region	Pursuing



24	Sanjeev kumar KS	Dr. R.C. Gupta & Dr Sandeep Shrivastava	Durability study on partial replacement of Dholpur stone wastes as coarse aggregates in concrete	Pursuing
25	Jitendra Singh Yadav	Dr. S.K. Tiwari	Geotechnical Investigation on the Potential Utilisation of Waste Rubber Tyre in Soil Stabilisation	Pursuing
26	Jagdeesh Prasad Sharma	Dr. S.K. Tiwari	Behaviour of Dune Sand Reinforced with Shredded Tyres as Backfill Material	Pursuing
27	Narendra Kumar Kumawat	Dr. S.K. Tiwari	Study on the Behaviour of Footings Supported on Geocell Reinforced Flyash Beds	Pursuing
28	Neeraj Sharma	Dr. Y.P. Mathur & Dr. A. S. Jethoo	Study of Impact of some Aspects of Environmental Changes at Keoladeo NationalPark (KNP) Wetland, Bharatpur	Pursuing
29	Ms. Rajshree Charan	Prof. M.K. Shrimali & Dr. S.D. Bharti	Active Control of Multi-storey Building using Neural Network	Pursuing
30	Vishisht Bhaiya	Prof. M.K. Shrimali & Dr. S.D. Bharti	Stochastic Control Using MR Dampers	Pursuing
31	Nishant Roy	Dr. S.D. Bharti & Dr. Rajib Sarkar	Static & Dynamic Behaviour of Tunnels Excavated in Blocky Rockmass using Distinct Element Method	Pursuing
32	Sunil Kumar Jain	Prof. Gunwant Sharma & Prof. Y. P. Mathur	Study of sustainability of Anasagar Lake Ajmer	Pursuing
33	Sunil Kumar Vyas	Prof. Gunwant Sharma & Prof. Y. P. Mathur	Development of Rainfall-Runoff Empirical Models in Banas River Basin	Pursuing
34	Sushindra Kumar Gupta	Prof. Gunwant Sharma, Dr. A. S. Jethoo & Dr. Jaivir Tyagi	Rainfall-Runoff and Sediment Yield Modeling	Pursuing
35	Santosh Ojha	Prof. Gunwant Sharma & Deepesh Machiwal	Risk Assessment of Groundwater Pollution in Jaipur Distric of Rajasthan	Pursuing



36	Lalit Kumar Gupta	Dr. A.K. Vyas	Granite Slurry as Fine Aggregate in Mortar	Pursuing
37	Kabeer	Dr. A.K. Vyas	Utilization of Marble slurry in Cement mortars	Pursuing
38	Pooja Jain	Dr. Sandeep Chaudhary & Dr. Rajesh Gupta	Service Load Behviour of Composite Beams Connected with Shear Connectors	Pursuing
39	Salman Siddique	Dr. Sandeep Shrivasata & Dr. Sandeep Chaudhary	Performance Assessment of Sustainable Concrete made with Bone China Ceramic waste	Pursuing
40	Choudhary Sumit Mukund	Dr. Rajesh Gupta & Dr. Sandeep Chaudhary	Strength and Durability Studies for the utilization of non biodegradable waste in Concrete	Pursuing
41	Salma Bano Luhar	Dr. Sandeep Chaudhary	Performance Evaluation of Rubberized Geopolymer Concrete and Fly Ash Based Geopolymer Mortar	Pursuing
42	Pankaj Kumar	Dr. Sandeep Chaudhary	Performance Evaluation of Mechanically Connected and Adhesive Bonded Steel-Concrete Composite Connections	Pursuing
43	Pradeep Kumar Gautam	Dr. Pawan Kalla & Dr. A.S. Jethoo	Gainful Utilisation of Kota Stone Waste as Pavement Material	Pursuing
44	Surendra Kumar	Dr. M.K. Jat	Impacts of Landuse/ Landcover Changes on Micro-climate and Optimum Adaptation Measures	Pursuing
45	Shuchi Mala	Dr. M.K. Jat	Geographic Infornmation System Based Disease Surveillance and Optimum Clustring	Pursuing
46	Ankita Saxena	Dr. M.K. Jat	Landuse/ Landcover Change and Urban Growth Modelling Using Geo-spatial Techniques and Cellular Automata	Pursuing



47	Arjita Saxena	Dr. M.K. Jat	Climate Change and Its Impact on Watershed Behaviour With Respect to Surface Runoff and Soil Erosion	Pursuing
48	Vineet Gupta	Dr. M.K. Jat	Integrated Urban Water Management Modelling	Pursuing
49	Ganpat Singh	Dr. Mahender Chaudhary	Urban Water Management for Ajmer City	Pursuing
50	Satish Raj Mendiratta	Dr. Mahender Chaudhary	Climate Change Adaptation for Rural Water Supply	Pursuing
51	Aneesh Mathew	Dr. Sumit Khandelwal	Analysis of Urban Heat Island Effect on Indian Cities and Development of Model for Urban Planning Application	Pursuing
52	Kulvaibhav Sharma	Dr. Sumit Khandelwal	Downscaling of Coarse Resolution Remote Sensing Data For Land Surface Temperature Modelling	Pursuing
53	Rajneesh Jain	Dr. Sumit Khandelwal	Spatioal Temporal Patterns of Urban Sprawl in Jaipur (india) Analysis Simulation and Environmental Variables	Pursuing
54	Pankaj Munjal	Dr. Sumit Khandelwal	Rainfall Regime of Rajasthan Hydro-meterological Study	Pursuing
55	Aditya Rana	Dr. Pawan Kalla	Durability Studies on Concrete Containing Kota Stone Waste	Pursuing
56	Harshwardhan Singh		Utilization of fine slurry waste for making building materials	Pursuing



### List of Candidates Awarded/ Pursuing M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of Thesis	Status
1	Megha Gupta	Dr. A.B. Gupta	Comparison of Pulsator vs Conventional Clariflocculator for turbidity removal"	Awarded
2	Neelam Kothari	Dr. A.B. Gupta	Comparison of Pulsator and Conventional Clariflocculator for Residual Aluminium levels	Awarded
3	Prashant Gandhi	Prof. Y.P. Mathur	Optimization of Sewer Network using Genetic Algorithm	Awarded
4	Raviendra Kumar	Prof. Y.P. Mathur	Optimal Design of Sewer Network using Ant Colony Algorithm	Awarded
5	Shruti Jain	Prof. Y.P. Mathur	Study of Reorganisation of Urban Water Supply Scheme Tonk	Awarded
6	Rohit Yadav	Prof. Ravindra Nagar	Replacement of Conventional Bricks with Hollow Concrete Blocks of Kota Stone Waste in Residential Tall Building	Awarded
7	SonamKumari Sharma	Prof. Ravindra Nagar	Finite Eement Modeling of Holoow Concrete Blocks	Awarded
8	Pravin Kumar	Dr. B.L. Swami	Road Safety Audit A Case Study	Awarded
9	Roopika Srivastava	Dr. B.L. Swami	Laboratory investigation on Nano- chemical stabilisers in Black Cotton Soil	Awarded
10	Ms. Rajni Swami	Dr. Rohit Goyal	An analysis of water balance with focus on non revenue water, a Case Study of Jaipur City	Awarded
11	Kritiza Sharma	Prof. Gunwant Sharma	Glacier Facies Mapping Using FCM and Evaluation of its Accuracy	Awarded
12	Umesh Kumar	Prof. Gunwant Sharma	Soil Erosion Estimation Using RUSLE in Arc-GIS	Awarded
13	Vikas Kumar	Prof. Gunwant Sharma & Prof. A. K. Vyas	A Study on use of Quarry Dust as Fine Aggregate in Mortar	Awarded



14	Pankaj Sharma	Dr. J K Jain	A Parametric Study of Passengers' Perception of Service Quality Attributes for Public Transport : A Case Study of Jaipur City.	Awarded
15	Jeetendra Lawamiya	Dr. J K Jain	Study of Mass Transit System with Special Reference to Jaipur Metro	Awarded
16	Suman Choudhary	Dr. Sandeep Chaudhary	Strength and durability studies of alkali-activated fly ash based geopolymer mortar	Awarded
17	Rahul Karwasra	Dr. Sandeep Chaudhary	Effect of position of single reinforcement layer in steel-concrete composite section	Awarded
18	Jayesh Teli	Dr. Sandeep Chaudhary	Effect of position of double reinforcement layer on composite sections	Awarded
19	Yogendra Sharma	Dr. M.K. Jat	Groundwater Modelling of Sanganer Block	Awarded
20	Gaurav Fulwaria	Dr. M.K. Jat	Evaluation of Critical Combination of Geotechnical Parameters and Assessment of Seismic Fragility Curves for Rock Slopes	Awarded
21	Saloni Singh	Dr. Mahender Chaudhary	Analysis of High Resolution Climate data for Heat wave in Northern India	Awarded
22	Vikaramjeet Singh	Dr. Mahender Chaudhary	Study of Sandstorm Variability due to Climate Change in the Thar Desert	Awarded
23	Ramveer Jat	Dr. Mahender Chaudhary	Draught Analysis of Rajasthan in Last Fifty Years	Awarded
24	Anil Choudhari	Dr. Mahender Chaudhary & Dr. Pawan Kalla	Spatial Trend Analysis Of Temperature In Uttar Pradesh For Last Century	Awarded
25	Nikhil Kumar Sharma	Dr. Arun Gaur	Utilization Of Recycled Aggregate in dry lean concrete and pavement quality concrete pavement	Awarded



26	Shivam Chauhan	Dr. Sumit Khandelwal	Study of Diurnal Variation of Land Surface Temperatures of Indian Cities and Comparison of UHI Effect Using Different Satellite Data	Awarded
27	Tanu Sharma	Dr. Sumit Khandelwal	Study of Land Surface Temperatures with Surface Index a Parameter Combining Normalised Difference Vegetation Index and Impervious Surface Area	Awarded
28	Chander	Dr. Sumit Khandelwal	Urban Landcover Dynamics with Increasing Population Scenario for Chandigarh and Ahmedabad Cities (India) Using GIS & Remote Sensing Software	Awarded
29	Pawan Patidar	Dr. Pawan Kalla	Experimental Investigation of Kota Stone Waste for Non Bituminous Course	Awarded
30	Pravesh Saini	Dr. Pawan Kalla	Utilization of Kota Stone Slurry for Soil Stabilization	Awarded
31	Ashish	Dr. Pawan Kalla	Use of Kota stone waste in asphaltic mix (BC and DBM)	Awarded
32	Arpan Jain	Dr. Pawan Kalla	Pedestrian Mobility Enhancement	Awarded
33	Jitendra Dixit	Dr. A.B. Gupta	Assessment of the suitability of secondary treated Sewage for reuse: a case at MNIT Jaipur	Pursuing
34	Inderjeet Chaudhary	Prof. A.B. Gupta & Dr Sandeep Chaudhary	Feasibility of use of settling tank sludge from Bisalpur water treatment plant as a partial replacement in concrete	Pursuing
35	Lokesh Saini	Dr. A.B. Gupta	Performance analysis of community based reverse osmosis desalination plants	Pursuing



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		Dr. A.B. Gupta &	Feasibility of use of silt	
36	Rijuta Gupta	Dr Sandeep	from storm water drains	Pursuing
		Chaudhary	as a partial replacement in concrete	
	Amon Sinch		Comparative Study of	
37	Aman Singh	Dr U. Brighu and	Three Methods For	Pursuing
	Nahar	Prof. A.B. Gupta		
			Nitrate Detection in Waste Water	
38	Pravind Singh	Prof. Ravindra	Utilization of Kota Stone Slurry in	Ongoing
50	Travina Singn	Nagar	Cement Mortars	Oligonig
		Prof. Gunwant	Hydrometerological Trend Analysis in	
39	Naresh Gupta	Sharma	Bihar State (India)	Pursuing
	Anukesh	Prof. Gunwant		
40	Bharadwaj	Sharma		Pursuing
41	Satish Meena	Prof. Gunwant	Estimation of Pearl Millet Crop Water Requirement System in Rajasthan	Pursuing
71	41 Satisfi Meella	Sharma	Using SWAT Data	i ursunig
			-	
42	Saurabh Vyas	Prof. Y. P. Mathur	Optimization of clear water reservoir using PSO	Pursuing
			using 150	
10			Mechanical studies of cement concrete	
43	Harsh Choudhary	Dr. R.C. Gupta	containing Dholpur sandstone slurry as replacement for total aggregate	Pursuing
			as replacement for total aggregate	
	Ram Swaroop	Dr. Sandeep	Effect of different hydrophobic	
44	Mandolia	Chaudhary	treatments on properties of recycled aggregate concrete.	Pursuing
			aggregate concrete.	
		Dr. Sandeep	Numerical Analysis of Steel-Concrete	
45	Ashutosh Gupta	Chaudhary	Composite Girder Under Cyclic Loading	Pursuing
			Image Classification and Preparation	
46	Manisha	Dr. M.K. Jat	of Land use/Land Cover	Pursuing
	Choudhary		maps using Object based Methods	
	Sawakare Rupesh		Urban growth Monitoring and	
47		Dr. M.K. Jat	Assessment using Landscape Metrices	Pursuing
	Sadashiv		Modeling and Analysis of	
48	Mukesh Kumar	Dr. Vinay Agarwal	Compressive Strength of Ready Mix	Pursuing
	Jaga	_	Concrete	



49	Asha Bohra	Dr. Sumit Khandelwal	Modeling of Groundwater Table for Dausa Region, Rajasthan	Pursuing
50	Subrata Nath	Dr. Sumit Khandelwal	Spatial And Temporal Trend Analysis of Rainfall and Temperature Relationship Using Mann-Kendall Test	Pursuing
51	Gitesh Bakolia	Dr. Sumit Khandelwal	Analysis of Reduction in Inflow at Ramgarh Dam Due to Land Cover Changes	Pursuing
52	Vikas Babu	Prof. A. K. Vyas	Water Permeation Characteristics of ISF Slag Concrete	Pursuing
53	Rajesh Joshi	Dr. J. K. Jain	Evaluation of travel time reliability: A case study of urban arterial in Jaipur	
54	Lakhwinder Singh Dhillon	Dr. Arun Gaur	Use of coconut and soyabean oil as rejuvenator for RAP in preparing DBM mix	
55	Gaurav Kumar Singhal	Dr. Pawan Kalla	Effective use of Kota Stone slurry in mortar	
56	Sanjay Kumar Alaria	Dr. Pawan Kalla	Use of Kota Stone waste in Open Graded Friction Course	
57	Lilesh Gautam	Dr. J. K. Jain	Study on mix traffic flow behavior on arterial road	Completed
58	Rahul Agrawal	Dr. Pawan Kalla	Utilization of Kota Stone Waste Aggregate in Hot Mix Asphalt	
59	Gaurav Singh	Dr. B. L. Swami	Comparison between Marshall properties of Warm Mix Asphalt using Zycotherm and Hot Mix Asphalt	
60	Chena Ram	Dr. Arun Gaur	Use of Peanut and Mustard oil as rejuvenator for RAP in preparing DBM mix	
61	Neeraj Meena	Dr. J. K. Jain	Road Safety audit of a road stretch on NH-11	
62	Kanishk Mirdha	Dr. A. K. Vyas	Use of Marble Aggregate in Pervious Concrete and effect on its properties	



63	Kuldeep	Dr. S. K. Tiwari	The impact of waste Rubber Tire Buffing on shear characteristics of cohesion less soil	
64	Vivek Bansal	Dr. B. L. Swami	Use of Reclaimed Asphalt Pavement in road base construction by Cold Mix Method	Completed
65	Divyanshu Shakya	Dr. B. L. Swami	Use of Reclaimed Asphalt Pavement aggregate for road bases by Hot Mix Method	

#### DEPARTMENT OF CHEMICAL ENGINEERING

#### LIST OF CANDIDATES PURSUING /AWARDED PH.D.

S. No.	Name of student	Supervisor	Торіс	Status
1.	Jitendra Kumar Singh	Prof. S. P. Chaurasia	Comparative study on performance of PTFE and PVDF membranes for water desalination using Vacuum Membrane Desalination	Completed
2.	Poonam Mondal	Dr. Suja George	Studies on Magnesium amended Hydroxyapatite for defluoridation on water	Completed
3.	Saakshy Agarwal	Dr. Kailash Singh & Prof. A.B. Gupta	Treatment, Recycle and Reuse of Waste from Handmade Paper Industry	Ongoing
4.	Avadh Oza	<ol> <li>Prof. S. P.</li> <li>Chaurasia</li> <li>Dr. Ajay K. Dalai</li> </ol>	Study on Bioethanol Production in Membrane Bioreactor (MBR) System	Ongoing
5.	Ashok Singh	<ol> <li>Prof. S. P.</li> <li>Chaurasia</li> <li>Dr. Ajay K. Dalai</li> </ol>	Studies on Biodiesel production using Heterogeneous Catalyst	Ongoing



6.	Priya Pal	<ol> <li>Prof. S.P.</li> <li>Chaurasia</li> <li>Dr. Sushant</li> <li>Upadhyay</li> </ol>	Glycerol purification using Membrane Distillation	Ongoing
7.	Avanish Kumar	Dr. S. K. Jana	Absorption Accompanied by Chemical Reaction of SO <sub>2</sub> in Selected Gas – liquid and Gas-liquid- solid Systems	Ongoing
8.	Prashant Srivastava	Dr. S. K. Jana	Synthesis of Precipitated Calcium Carbonate by Carbonation of Calcium Chloride in bubble Column and Foam-bed Reactors.	Ongoing
9.	Lokesh Kumar	Dr. S. K. Jana	Desulfurization of Flue Gases using Marble Slurry	Ongoing
10.	Prerana Sikarwar	V. Subbaramaiah	Catalytic Desulfurization & Denitrogination of liquid fuels.	Ongoing
11.	Shivali Arora	V. Subbaramaiah	Green Process: Development of Green Catalyst for the Synthesis of Glycerol Carbonate from Waste Glycerol	Ongoing
12.	Arvind Kumar Agarwal	Dr. Manish Vashishtha	Study of Energy Potential from Agro residue n Rajasthan	Ongoing
13.	Shiv Om Meena	Dr. Manish Vashishtha	Experimental and Modeling Studies on Coated Urea	Ongoing



14.	Sruti Chakraborty	Dr. Manish	Studies on Moisture	Ongoing
		Vashishtha	Dynamics in Oil Paper Insulation of Power Transformers	
15.	Dhiraj Mehta	Dr. Suja George	Studies on Utilisation of Marble Slurry Powder into a value added product- Hydroxyapatite for defluoridation	Ongoing
16.	Abhay Dinker	Dr. Madhu Agarwal & Dr. G.D. Agarwal	Storage of Green and Sustainable Energy	Ongoing
17.	Avdesh Singh Pundir	Dr. Kailash Singh	Adaptive Control of non - isothermal Packed Bed reactor	Ongoing
18.	Sunil Rajoriya	Dr. V.K. Saharan	Development of advanced oxidation techniques based on hydrodynamic cavitation for the degradation of biorefractory pollutants	Ongoing
19.	Ajay Sujan	Dr. R.K. Vyas	Studies on Hydrodynamic and Mass Transfer Parameters in a Bubble Column	Ongoing
20.	Jharna Gupta	Dr. Madhu Agarwal & Prof. Ajay Dalai	Production of biodiesel in continuous/helical reactor using nanocatalyst	Ongoing
21.	Rakesh Baghel	Dr. Sushant Upadhyaya & Prof. S.P. Chaurasia	Studies on Vacuum Membrane Distillation	Ongoing
22.	Komal Sharma	Dr. R.K. Vyas	Removal of Textile Dyes from Aqueous Solution using Reactive Adsorption	Ongoing
23.	Shivendu	Dr. Suja George	Studies on Textile effluent Treatment	Ongoing
24.	Renu	Dr. Madhu Agarwal & Dr. Kailash Singh	Modeling and Experimental Study of Heavy Metal Removal from Textile Effluents	Ongoing
25.	Jitendra Carpenter	Dr. V.K. Saharan	Intensification of physical and chemical processes by cavitation	Ongoing



26.	Gaurav Kataria	Dr. Kailash Singh	Development of Adaptive Soft Sensor for Reactive Distillation Column	Ongoing
27.	Prakash Kumar	Dr. Suja George	Studies on Calcium Magnesium amended Activated Alumina for defluoridation of drinking water	Ongoing
28.	Swati Dubey	Dr. Madhu Agarwal	Defluoridation of water using continuous process	Ongoing
29.	Sarita Kalla	Dr. Sushant Upadhyaya & Dr. Kailash Singh	Experimental and theoretical study on vacuum membrane distillation of aqueous solution of ethanol	Ongoing
30.	Sudhanshu Singh	Dr. U.K. Arun Kumar	Reactive Extraction of Carboxylic Acids from Aqueous Solutions in Micro-Reactors- Experimental and Modeling Studies	Ongoing
31.	Rohitash Kumar	Dr. U.K. Arun Kumar	Experimental and Simulation studies of CO2 absorption in Micro channels	Ongoing
32.	Sakshi Batra	Dr. Dipaloy Datta	Removal of Endocrine Disrupting Chemicals from Wastewater Using Solvent Impregnated Resins	Ongoing
33.	Arshia Khan	Dr. Suja George	Development of nano catalyst and nano adsorbent from marble slurry waste.	Ongoing
34.	Kalpana Patidar	Dr. Manish Vashishtha	The study of Utilization of Agro Residues	Ongoing





### List of Candidates Awarded M. Tech. Degree

S.No.	Student ID	Name	Supervisor	Title of Thesis	Status
1.	2014PCH5061	EKTA CHATURVEDI	Dr. Sushant Upadhyaya	Mathematical modelling and manufacturing of HDPE/PP bricks using different fillers by continuous extraction process	Completed
2.	2014PCH5070	HARSHIT KUMAR	Dr. R.K. Dohare	Modelling and Simulation of Polymer electrolyte membrane fuel cell	Completed
3.	2014PCH5102	SOHANVEER SINGH	Prof. Alok Gupta	Synthesis and Characterization of emulsion polymerized polyaniline doped with DBSA.	Completed
4.	2014PCH5110	MEENAKSHI YADAV	Dr. Prabhat Pandit	Removal of lead from wastewater using low cost adsorbent	Completed
5.	2014PCH5129	JITENDRA DABI	Dr. U.K. Arunkumar	Hydrodynamic studies and liquid-liquid extraction of carboxylic acid in micro- channels	Completed
6.	2014PCH5131	PATIL PRATIK SURESH	Dr. R.K. Dohare	Modelling and control of dissolved oxygen and nitrogen of the activated sludge process.	Completed
7.	2014PCH5132	APARADHA VINAY KUMAR	Dr. S.K Jana	Synthesis of Hydroxyapatite nano particles by wet chemical precipitation and its application for adsorption of arsenic from drinking water	Completed
8.	2014PCH5139	SHAHZAD ALI	Dr. R.K. Vyas	Preparation and Characterization of Modified Bentonite Clay for the Removal of Methylene Blue from Aqueous Solution	Completed



9.	2014PCH5176	SHANTANU CHAUHAN	Dr. Manish Vashishtha	Development of tool for calculation of atmospheric corrosion rate of carbon steel	Completed
10.	2014PCH5195	SATIRTHA KUMAR SARMA	Dr. Kailash Singh	Real Time Optimization and Control of a Reactive Distillation Column	Completed
11.	2014PCH5220	KRATIKA SHARMA	Dr. Virendra Kumar Saharan	Synthesis of Nanoemulsion using Cavitation	Completed
12.	2014PCH5369	PATIL SHUYABAHMED	Dr. Madhu Agarwal	Preparation of cardanol sulphonate a surfactant from cardanol extraction from chashew nut shell and its application in nano particle stabilization	Completed
13.	2014PCH5374	M. VEDA DEEPIKA NAIDU	Dr. Suja George	Synthesis and characterization of surface modified zeolite-A for nitrate removal from aqueous solution	Completed
14.	2014PCH5396	VAIBHAV DHYANI	Prof. S.P. Chaurasia	Desalination using Polypropylene tubular membrane module in Vacuum Membrane Distillation	Completed
15.	2014PCH5422	MOHIT KAUSHIK	Mr. Shiv Om Meena	Polymer coated urea using pan coating and fluidized bed techniques	Completed



#### **DEPARTMENT OF CHEMISTRY**

### LIST OF CANDIDATES PURSUING /AWARDED PH.D.

S. No.	Name of student	Supervisor	Торіс	Status
1	Shuchi Maheshwari	Dr. Jyoti Joshi	Synthesis and characterisation of some medicinally important spiro and condensed heterocycles through green approach	Completed
2	Yogesh Duchaniya	Dr. Jyoti Joshi	Synthesis and studies of metallated derivatives of poly donor ligands	Ongoing
3	Tanuja Kumari	Dr. Jyoti Joshi	Co-ordinate complexes with functional chelating ligands having Nitrogen and or Oxygen donor atoms	Ongoing
4	Ravi Kumar Yadav	Dr. Jyoti Joshi	Green synthesis of heterocycles and their bio- evaluation	ongoing
5	Ms. Anshu Jain	Dr. Ragini Gupta	Synthesis of some new Heterocycle Based Anion Receptors	Thesis Submitted
6	Ms Yachana Jain	Dr. Ragini Gupta	Bioconjugates and Click Chemistry and its Applications in Drug Discovery	Joined Ph D in July, 2013
7	Ms Mitlesh Kumari	Dr. Ragini Gupta	Synthesis of heterocyclic compounds as via Green Chemical routes and their applicationa	Joined in Jan 2014



8	Mr Shobhit Kumar Dwivedi	Dr. Ragini Gupta	Synthesis and Characterisation of nanocomposites for Defence Applications	Joined July 2016 at MRC
9	Mumsaf Ali	Dr. Raj Kumar Joshi	Metal carbonyl asserted one pot synthesis of unusual heterocyclic compound	Prussuing
10	Avinash Srivastava	Dr. Raj Kumar Joshi	Synthesis and Characterization of Silylene Based Metal Carbonyl Complexes, Future Catalyst Silylene transfer Reaction and Organic Transformations	Prussuing
11	Naveen Satrawala	Dr. Raj Kumar Joshi	Strategically Development of Metal-silylene Complexes: Potential Catalyst for Organic Transformation Reactions and Silylene Transfer Reactions	Prussuing
12	Himanshu Khandaka	Dr. Raj Kumar Joshi	General and selective organic transformations through early transition metal nano- particles.	Prussuing
13	Vashundhra Sharma	Dr. Sandeep Chaudhary	Synthetic Studies towards Coupling Reactions: Chemistry and Biology of Bio-Active Alkaloids	Ongoing
14	Ritu Sharma	Dr. Sandeep Chaudhary	Synthesis, Chemistry and Bio-evaluation of some Biologically active Heterocycles	Ongoing
15	Mohit K. Tiwari	Dr. Sandeep Chaudhary	Study of Potent Antimalarial Agents: Synthesis, Chemistry & Biological Evaluation	Ongoing



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16	Bharti Rajesh Kumar Shyamlal	Dr. Sandeep Chaudhary	C-H Bond Activation Reactions: Investigation of New C-C Coupling	Ongoing
			Reactions and It's Application to the Synthesis of Bioactive Heterocycles	
17	Lalit Yadav	Dr. Sandeep Chaudhary	Synthetic Studies on Bio- active Heterocycles : Synthesis, Chemistry & Development of New Strategies	Ongoing
18	Mahesh Kumar Paliwal	Dr. Sumanta Kumar Meher	Designing of Multi Metal Oxide Based Heteronanocomposites for Electrochemical Energy Storage and Green Technology Applications	Pursuing
19	Ankur Gupta	Dr. Sumanta Kumar Meher	Designing and Systematic Study of Two Dimensional Maxene for Electrochemical Energy Storage Applications	Pursuing
20	Ruchika Sharma	Dr. Sumanta Kumar Meher	New Inorganic Graphene-Like Nanomaterials for Electrochemical Energy Storage and Sensors	Pursuing
21	Anshu Bhati	Dr.Sumit Kumar Sonkar	Metal doped Nano Carbon : Application ans Synthesis	Ongoing
22	Anupriya Singh	Dr.Sumit Kumar Sonkar	Water soluble Nano Carbon : Application ans Synthesis	Ongoing
23	Gunture	Dr.Sumit Kumar Sonkar	Hyperbranched N,P-doped Nano Carbon for sensing and imaging	Ongoing
24	Satyesh Raj Anand	Dr.Sumit Kumar Sonkar	Water soluble Nano Carbon for Agricultural applications	Ongoing





25	Subhasish mallick	Dr. Pradeep Kumar	Effect of various catalysts on atmospherically important hydrogen atom transfer reaction	ongoing
26	Saptarshi Sarkar	Dr. Biman Bandyopadhyay	Role of ammonia in the atmospheric chemistry of oxygenated volatile organic compounds	Pursuing
27	Dodla Sivanageswara Rao	Dr Sudhir Kashyap	Synthetic Application of Sulfonium Iodate(I) Reagent in Modern Organic Chemistry	Pursuing
28	Manoj Kumar	Dr Sudhir Kashyap	Stereoselective Synthesis of Rare Sugar and Glycomimetics from Glycal	Pursuing
29	Thurpu Raghavender Reddy	Dr Sudhir Kashyap	Stereoselective Synthesis of 2,3-dideoxy, 2- deoxyglycosides and glycoconjugates	Pursuing

#### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

### List of Candidates Pursuing /Awarded Ph.D.

S. No.	Name of student	Supervisor	Торіс	Status
1	Prakash Choudhary	Neeta Nain	An Annotated Urdu Corpus of Handwritten Text Image and Benchmarking of Corpus	Awarded
2	Maroti Deshmukh	Neeta Nain	Secret Sharing Schemes for Multimedia Data	Thesis Submitted
3	Tapas Badal	Neeta Nain	Non Chronological Video Synopsis and Indexing	Thesis Submitted
4	Mr. Ajay Nehra	Meenakshi Tripathi	Security in SDN	Pursuing
5	Mr. Ankur Gupta	Meenakshi Tripathi	Security issues in IoT	Pursuing



		Dr. Meenakshi			
6	Ms. Jyoti Gajrani	Tripathi,Prof. Manoj	Android Security Analysis	Pursuing	
	<u> </u>	Singh Gaur		6	
	Mr. Ankit Kumar.	Namita Mittal	Classification of malignannt brain	Awarded	
7	Vidyarthi		tumors using MRI		
0	Mr. Lokesh Kumar	Namita Mittal	Evidence Gathering and Language	Awarded	
8	Sharma	Inamina ivintiai	Alingment in Question Answering		
		Dr. Santosh Kumar	Design and Enhancement of robust		
9	Murari Mandal		Feature Descriptors and background	Dursuing	
9		Vipparthi	modelling techniques for Moving	Pursuing	
			Object Detection		
		Dr. Santosh Kumar		+	
10	Satyanaraya Tazi	Vipparthi & Dr. Arka	Hand Gesture detection and recognition	Pursuing	
		Prokash Mazumdhar			
	Ramesh Babu Battula	Prof. M.S. Gaur & Dinesh Gopalani	Path Aware and Spectrum Aware		
11			Routing Protocol for Cognitive Radio	Awarded	
			Based Mesh Networks		
10		Prof. M.C. Govil &	Distributed Representation of Words	Pursuing	
12	Vimal Kumar Soni	Dinesh Gopalani	through Deep Learning		
13	Manish Jain	Dinash Canalani	Automatic Aspect Creator for Testing	Pursuing	
15	Ivianish Jani	Dinesh Gopalani	and Debugging Software Programs	Pursuing	
1.4	Ritu Sharma	Dinesh Gopalani & Yogesh Meena	A Recommendation Framework for	Pursuing	
14			Research Documents		
			Performance Optimization of Feed		
15	Divya Bairathi	Dinesh Gopalani	Foraward Neural Networks using	Pursuing	
			Metaheuristics		
16	Anchit Dijalwan	E.S. Pilli	A Framework for Botnet Forensic	Pursuing	
10	Anchit Bijalwan	12.3.1 1111	Analysis	1 ursunig	
17	Ramesh Singh	E.S. Pilli	A Defence Framework for Advanced	Pursuing	
1/			Botnets		
18	Mohit Gokhroo	E.S. Pilli	Fault Tolerance in Cloud Computing	Pursuing	
19	Anand Mishra	Prof. M C Govil, Dr. Pilli E S	Cloud Forensic Framework	Pursuing	





20	Avani Sharma	Dr. Pilli E. S., Dr. Arka Prokash Mazumdar	Trust Management System for Internet of Things	Pursuing
21	Sameer Singh	Dr. Pilli E. S. , Prof. R. C. Joshi	An Efficient Broker based Framework for Federated Cloud	Pursuing
22	Tanvi Chawla	Dr Girdhari Singh, Dr Pilli E. S.	A Scalable Framework for Analyzing Big Semantic Web Data	Pursuing
23	Manoj Kumar	Prof. M.S. Gaur Dr. Vijay Laxmi	"Design of Highly Adaptive and Fault Tolerant Routing for Networks on Chip",	Awarded
24	Anil Saini	Prof. M.S. Gaur Dr. Vijay Laxmi	Attacks and Mitigation in Web Browsers	Awarded
25	Parvez Faruki	Dr. Vijay Laxmi Prof. M.S. Gaur	Techniques for Analysis and Detection of Android Malware	Awarded
26	Mukesh Gupta	Dr. M.C. Govil Dr. Girdhari Singh	Detection of security vulnerabilities using static analysis and machine leaning techniques	Awarded
27	Ms. Sonal Yadav	Dr. Vijay Laxmi Prof. M.S. Gaur	Exploration for Efficient Manycore Networks-on-Chip Architectures	Persuing
28	Mr. Rajendra Kumar Solanki	Dr. Vijay Laxmi	Program Analysis and Application Security	Persuing
29	Mr. Anugrah Jain	Dr. Vijay Laxmi Dr. Meenakshi Tripathi	Dynamic Reconfiguration on Network on-Chip Platforms	Persuing
30	Mr. Dave Jay Kamlesh	Dr. Vijay Laxmi	Secure Data Deduplication for Cloud based Storage	Persuing
31	Mr. Vinesh Kumar Jain	Prof. M.C. Govil Dr. A.P. Mazumdar	Melioration of Traffic Management Schemes Internet of Things	Persuing
32	Mr. Maheep Singh	Prof. M.C. Govil Dr. Emmanuel S. Pilli		Pursuing
33	Mr. Gajendra Singh Shekhawat	Prof. M.C. Govil Dr. Dinesh Gopalani	Design of Cross-Layer Real-Time Data Transmission protocol for Underwater Acoustic Sensor Networks (UWASN)	Pursuing



34	Mr. Kunwar Pal	Prof. M.C. Govil	Quality Aware Adaptive Live Video	Pursuing	
		Dr. Mushtaq Ahmed	Streaming in Peer to Peer Network		
35	Ms. Anita Choudhary	Dr. M.C. Govil Dr. Girdhari Singh	QoS - Aware Energy -Efficient Resource Provisioning and Scheduling in Cloud Computing Environment	Pursuing	
36	Mr. Ved Mitra	Dr. M.C. Govil Dr. Girdhari Singh		Pursuing	
37	Mr. Rajat Goel	Dr. Girdhari Singh Dr. M.C. Govil	Security Requirement Elicitation Assesment and Design	Pursuing	
38	Ms. Preeti Mishra (2013RCP9523)	Dr. Pilli Emmanuel Shubhakar Prof. Vijay Varadharajan	Efficient Techniques for Intrusion Detection in Cloud Environment	Thesis Submitted	
39	Sonu Lamba (2015RCP9003)	Dr. Neeta Nain	Crowd Density Estimation and Analysis	Pursuing	
40	Mr. Harendra Chahar (2016RCP9013)	Dr. Neeta Nain	Deep convolutional neural network for person re-identification	Pursuing	
41	Mr. Ravindra Kumar Saini (2012RCP9515)	Dr. Mushtaq Ahmed	Fault Tolerant Routing for 3D Mesh NoC.	Pursuing	
42	Mr. Anurag Sharma (2013RCP9516)	Dr. Mushtaq Ahmed	Multi Objective Design Space Exploration for High Level Synthesis	Pursuing	
43	Mr. Diwakar Gautam (2013RCP9003)	Dr. Mushtaq Ahmed	Early Stage Detection and Diagnosis of Carcinoma	Pursuing	
44	Ms. Riti Kushwaha (2015RCP9526)	Dr. Neeta Nain	Person Identification Using Footprint as Biometric Authentication Trait	Pursuing	
45	Mr. Maninder Singh Nehra (2013RCP9553)	Dr. Neeta Nain Dr. Mushtaq Ahmed		Pursuing	
46	Mr. Tapas Badal (2013RCP9004)	Dr. Neeta Nain Dr. Mushtaq Ahmed		Pursuing	
47	Mr. Sandeep Kumar Gupta (2016RCP9033)	Dr. Neeta Nain		Pursuing	





48	Ms. Shweta Bhandari (2014RCP9508)	Dr. M.S. Gaur	Static Analysis towards Securing Android Applications	Pursuing
49	MS. Vineeta Jain (2015RCP9051)	Dr. M.S. Gaur Dr. Mohamed Mosbah	Vetting Android Apps to detect Sensitive Information Leakage	Pursuing
50	Mr. Chandra Prakash (2014RCP9512)	Dr. Namita Mittal Dr. Rajesh Kumar	Machine Learning Techniques for Vision based Human Gait Analysis	Pursuing
51	Mr. Abhishek Singh Kilak (2012RCP9516)	Dr. Namita Mittal		
52	Ms. Mithlesh Arya (2015RCP9040)	Dr. Namita Mittal Dr. Girdhri Singh	Cervical Cancer Detection using Pap smear Images by Machine Learning Techniques	Pursuing
53	Mr. Vijay Kumar Sharma (2014RCP9541)	Dr. Namita Mittal	Query Translation Disambiguation Approaches in Cross-Lingual Information Retrieval	Pursuing
54	Ms. Manisha Samanta (2015RCP9524)	Dr. Yogesh Kumar Meena	Information Oriented Online Event Detection from Social Media	Pursuing
55	Mr. Manish Jain (2012RCP9513)	Dr. Dinesh Gopalani	Aspect Oriented Approach for Testing Software Applications and Automatic Aspect Creation	Pursuing
56	Ms. Divya Bairathi (2015RCP9541)	Dr. Dinesh Gopalani	Performance Optimization of Feedforward Neural Networks using Metaheuristics	Pursuing
57	Ms. Ritu Sharma (2015RCP9027)	Dr. Dinesh Gopalani Dr. Yogesh Kumar Meena	Recommendation Framework for Research Documents	Pursuing
58	Mr. Ahish Sharma (2013RCP9515)	Prof. Manoj Singh Gaur Dr. Lava Bhargava		
59	Ms. Shweta Saharan (2015RCP9533)	Prof. Manoj Singh Gaur	Privacy Preserving Data and Computation Offloading in Mobile Cloud Computing	Pursuing



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60	Ms. Garima Garg	Dr. Vijay Laxmi		
	(2016RCP9034)	Prof. M.S. Gaur		
	Ms. Joyoti Gajrani	Prof. M.S. Gaur		
61	(2014RCP9542)	Dr. Meenakshi		Pursuing
	(2014KC1 9542)	Tripathi		
62	Mr. Ankur Gupta	Dr. Meenakshi	Secure Architecture of IoT services in	Dunguin a
02	(2015RCP9543)	Tripathi	Fog-Cloud Computing System	Pursuing
	Mr. Ajay Nehra	Dr. Meenakshi	Verifiable Security Attributes	
63	(2014RCP9533)		Identification in Software Defined	Pursuing
	(2014KCP9555)	Tripathi	Network	
	Ma Masha Cara	Dr. Vijay Laxmi		
64	Ms. Megha Garg	Dr. Meenakshi		
	(2016RCP9007)	Tripathi		
	Mr. Satya Narayan	Dr. Santosh kr.		
65	(2016RCP9004)	Vipparthi		Pursuing
		Dr. A.P. Mazumdar		
66	Ms. Geetu Dhawan	Dr. A.P. Mazumdar	Information Centric Networking for	Description
00	(2016RCP9036)	Dr. A.P. Mazumdar	Internet of Things	Pursuing
67	Mr. Pranjal Ranjan	Prof. M.S. Gaur		
07	(2016RCP9542)	F101. WI.S. Gaul		
	Ms. Anamika		Architecture & Protocols in Internet of	
68	Satrawala	Dr. A.P. Mazumdar		Pursuing
	(2016RCP9518)		Things	
	Mr. Praveen Kumar			
69	Chandaliya	Dr. Neeta Nain		
	(2016RCP9511)			
	Mr. Bharat V	Dr. Vijay Laxmi		
70	Buddhadev	Prof. M.S. Gaur		
	(2013RCP9575)	1 101. 191.5. Uaul		
71		Prof. Manoj Singh		Thesis
		Comment Dave C	DDoS attacks in Cloud Computing	1110515
71	Gaurav Somani	Gaur and Prof.	DD05 attacks in Cloud Computing	Submitted



### List of Candidates Awarded M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of Thesis	Status
1	Somya Gupta	Namita Mittal	Unsupervised approach for automated extraction of keyphrases	Awarded
2	Candy Lalrempuii	Namita Mittal	Sentiment Classification of Crisis Related Tweets using Segmentation	Awarded
3	Mallika Chowdhary	Dr. Santosh Kumar Vipparthi	An expert texture feature descriptors for Image Analysis	Awarded
5	Amrita Saini	Dinesh Gopalani	Personalized Recommendation Methodology for Scholarly Paper	Awarded
6	Himani Sharma	Dinesh Gopalani	En-Hi Machine Translation	Awarded
7	Madhuri Gupta	E.S. Pilli	Blocking based Entity Resolution in Large Bibliographic Data using MapReduce	Awarded
8	Nanak Chand	E.S. Pilli	A Scalable Multi-Classifier based IntrusioN Detection System for Analyzing Network Traffic	Awarded
9	Priyanka Golia	Dr. Girdhari Singh	Regression Test Cases Prioritization Using Genetic Algorithm	Awarded
10	Akant Sharma	Prof. Manoj Singh Gaur	Replication Attack Detection using Independent Node approach in WSN	Awarded
11	Reecha Meel	Dr. Yogesh Kumar Meena	Abstractive Summarization of Event Specific Tweets	Awarded
12	Devesh Kumar Sharma	Dr. Yogesh Kumar Meena	On Demand Data Generation at Big Data Scale	Awarded
13	Neeru Yadav	Dr. Arka Prokash Mazumdar	Data Plane Load Balancing in Software Defined Network	Awarded
14	Richa Agarwal	Dr. Arka Prokash Mazumdar	Adaptive Scalable Video Delivery over SDN	Awarded
15	Anjali Saini	Dr. Mustaq Ahmed	Detection of Suspicious Activities In ATM Booth	Submitted
16	Sunita Jangir	Dr. E.S Pilli	Network Intrusion Detection System in Cloud Environment	Submitted
17	Prashant Kumar	Dr. Meenakshi Tripathi	Safety:Early Detection & Mitigation of TCP SYN Flood Utilization Entropy in SDN	Awarded



18	Gosai Niravgar	Mr. Dinesh Kumar	Playing XI Prediction Using Neural	Awarded	
10	Gobar Milavgar	Tyagi	Network	Tiwaraou	
10	Mallila Charally are	Dr. Santosh Kumar	An Effective Texture Feature	Awarded	
19	Mallika Chaudhary	Vipparthi	Descriptor For Image Analysis	Awarded	
20	Sonakshi Mathur	Dr. Santosh Kumar	Facial Expression Recognition using	Awarded	
20	Sonaksin Maulur	Vipparthi	various Feature Descriptors	Awarded	
			MapReduce Based Entity Resolution		
21	Dolly Mittal	Dr. E.S Pilli	using Multiple Blocking Keys For	Awarded	
			Bibliographic Data		
	22 Akash Gupta Dr. Dinesh Gopalani		Sentiment Analysis:LexiconBased		
22			Classification Using IEDR Approach	Awarded	
			Vision Based Gender Recognition		
23	Gourav Takhar Dr. Namita Mittal		using Hybrid Background Subtraction	Awarded	
			Technique		
24	A uni De e unio	Dr. Ramesh B.	TMAC for Cognitive Radio Networks	A	
24	Anuj Bagaria	Battula	using Software Defined Rado	Awarded	
			Enhancing User Experience with		
25	V 10.1.1		Customer Care by Segregating	A 11	
25	Kunal Solanki	Dr. E.S Pilli	Problems From Reviews and Social	Awarded	
			Media		
26	Nitesh Kumar	Prof. Manoj Singh	U-Turn LBDR: A Novel Approach of	A 1 1	
26	Jangid	Gaur	Link Fault Tolerance in NoC	Awarded	
27	Deerel: Nerreri	Prof. M.C. Govil	Aspect-Based Sentiment	Arrest de d	
27	Deepaki Navani	Prof. M.C. Govil	Analysis(ABSA)	Awarded	
			Detection of Sensitive Information		
28	Garima Modi	Dr. Vijay Laxmi	Leakage Paths in Android	Awarded	
			Applications		
20	Desis Are 1	Dr. Ramesh B.	Cluster based Routing Protocol in	Seele are itted 1	
29	Pooja Agrawal	Battula	Cognitive Radio Network	Submitted	





#### **DEPARTMENT OF ELECTRICAL ENGINEERING**

S. No.	Name of student	Supervisor	Торіс	Status
1.	Mr. Bharat Bhushan Jain	Prof. R. A. Gupta	Investigations on Small Scale Standalone Hybrid System for Rural Electrification	Awarded
2.	Mr. Nandkishor Gupta	Prof. R. A. Gupta	Investigations on Microgrid Interconnection to Distribution Systems	Awarded
3.	Ms. Neeraj Kanwar	Dr. Nikhil Gupta Prof. K. R. Niazi	Some Investigations on Distribution System Performance Improvement	Awarded
4.	Mr. Narayanan. K	Dr. Manoj Fozdar	Operation Of Distribution Systems With Distributed Generation	Awarded
5.	Mr. Vaiju Kalkhambkar	Dr. Rajesh Kumar	Optimal Sizing and Placement of Energy Storage in Coordination with Renewable Distributed Generation	Awarded
6.	Mr. Shashank Vyas	Dr. Rajesh Kumar	Predictive Analytics and Machine Learning for Mitigating Unintentional Islanding in Solar PV Distributed Generation Systems	Submitted
7.	Mr. Bhanu Pratap Soni	Dr. Vikas Gupta	Evaluation of Power System Stability in Multi Machine Power System	Pursuing
8.	Mr. Ajay Kumar	Dr. Vikas Gupta	Grid-tied solar photovoltaic system with power line conditioning	Pursuing



9.	Mr. Abhilash Kumar	Dr. Kusum	Monitoring and Control of Larry	Pursuing
9.	Gupta	Verma Prof. K. R. Niazi	Monitoring and Control of Low Frequency Oscillations in Power Systems	Pursuing
10.	Ms. Akanksha Shukla	Dr. Kusum Verma Dr. Rajesh Kumar	Optimal Planning and Impact Analysis of Electric Vehicle Fast Charging Stations in Distribution Systems	Pursuing
11.	Mr. Sandeep Chawda	Dr. Rohit Bhakar	Risk Management in Energy Markets	Pursuing
12.	Mr. Manaswai	Dr. Arun Kumar Verma	EV integration to Grid	Pursuing
13.	Mr. Saurabh Ratra	Dr. Rajive Tiwari	Voltage Stability Analysis and Congestion Management	Pursuing
14.	Mr. Pradeep Singh	Dr. Rajive Tiwari	Voltage Stability Assessment and Preventive Control: Investigation under Normal and Islanded Mode of Power Systems	Pursuing
15.	Ms. Jyotsna Singh	Dr. Rajive Tiwari	Some investigation on integration of electrical vehicles in distribution systems	Pursuing
16.	Mr. Pradeep Anjana	Dr. Vikash Gupta, Dr. H. P. Tiwari	Design and Modelling of Shunt Active Power Filter for Power Quality Improvement in Distribution	Pursuing
17.	Ms. Amita Kumari	Dr. H. P. Tiwari, Dr. Rohit Bhakar	Distribution Network Pricing Models	Pursuing
18.	Mr. Jay Prakash Keshri	Dr. H. P. Tiwari	Investigation on Detection, Classification and Location of Faults in Transmission Lines to Improved Transfer Capability	Pursuing



19.	Mr. Vivek Prakash	Dr. H. P. Tiwari,	Frequency Response Mechanism in Low Carbon Power System	Pursuing
		Dr. Rohit Bhakar		
20.	Mr. Prerak Bhardwaj	Dr. Vijayakumar K	Design and development of power electronic converters for wind and PV system	Pursuing
21.	Ms. Rajvir Kaur	Dr. Vijayakumar K	Design and analysis of switched mode power converters for renewable based telecom supply	Pursuing
22.	Mr. Saurabh Kumar	Dr. Vijayakumar K	Analysis and performance enhancement of hybrid wind-PV system with certain power electronic controll	Pursuing
23.	Mr. Ashish Laddha	Dr. Vijayakumar K	Investigation on certain controllers and energy management system for DC grid	Pursuing
24.	Mr. Manoj Kumawat	Dr. Nitin Gupta	Investigations on Distributed Generation Planning Considering Power Quality Issue of Distribution System	Pursuing
25.	Mr. Vijay Kumar Gali	Prof. R. A. Gupta Dr. Nitin Gupta	Design, Development of Inverter Topologies and Control Techniques to Enhance the Operation of Shunt APF for Power Quality Improvement	Pursuing
26.	Mr. Bhat Kunal Kumar	Prof. R. A. Gupta Dr. Nitin Gupta	Bidirectional DC to DC Converter for Electrical Vehicle Application	Pursuing
27.	Mr. Saumyadeep Ray	Prof. R. A. Gupta Dr. Nitin Gupta	Power Quality Improvement using Cascaded H-Bridge Multilevel Inverter Based Active Power Filter	Pursuing



28.	Mr. Nand Kishor Meena	Dr. Anil Swarnkar	Some Investigations on Distribution Systems Resources	Pursuing
	11100nu	Swamkar	Optimization	
29.	Mr. Pankaj Kumar	Dr. Nikhil Gupta Prof. K. R. Niazi	Some Investigation on demand response and nodal pricing in distribution systems	Pursuing
30.	Ms. Sonam Parashar	Dr. Anil Swarnkar Prof. K. R. Niazi	Some Investigations on Optimal Operation of Microgrids	Pursuing
31.	Mr. Rayees Ahmad Tokar	Dr. Nikhil Gupta Prof. K. R. Niazi	Optimal Planning and Operation of DRs/DESS in Distribution Systems (Tentative)	Pursuing
32.	Mr. Praveen Kumar	Dr. Nikhil Gupta Prof. K. R. Niazi	Multiobjective stochastic distribution network reconfiguration with renewables	Pursuing
33.	Mr. Mukesh K Shah	Dr. Nikhil Gupta Prof. K. R. Niazi	Some investigation on economic operation of emrging power systems	Pursuing
35.	Mr. Sachin Sharma	Prof. K. R. Niazi	Investigations of Some Aspectes of Renewale Energy Penetration (Tentative)	Pursuing
36.	Mr. Dhanraj Chitara	Dr. Anil Swarnkar Prof. K. R. Niazi	Some Investigations on Power System Controllers for Small Signal Stability Enhancement	Pursuing



37.	Mr. Pranda Prashant Gupta	Dr. Prerna Jain	Security Constrained Unit Committment	Pursuing
38.	Ms. Sharma Suman Dharampal	Dr. Prerna Jain	Scheduling of Electric Vechicle Aggregator	Pursuing
39.	Mr. Ajeet Kumar Singh	Dr. Manoj Fozdar	Some Studies on PMUs for Event Detection and Stability in Power Systems	Pursuing
40.	Mr. Satyendra Singh	Dr. Manoj Fozdar	Coordinated Bidding Strategies in Energy and Reserve Markets	Pursuing
41.	Mr. Om Shukla	Dr. Rajesh Kumar	Multi-Agent control of Lean Manufacturing	Pursuing
42.	Ms. Shalini Pal	Dr. Rajesh Kumar	Demand Side Management	Pursuing
43.	Ms. Venu Sangwan	Dr. Rajesh Kumar	Battery management system of electric vehicles	Pursuing
44.	Mr. Sujil A.	Dr. Rajesh Kumar	Smart microgrid management using multi agent system	Pursuing
45.	Mr. Rahul Singhal	Dr. Rajesh Kumar	Energy Efficient Automated Green House	Pursuing
46.	Ms. Vishu Gupta	Dr. Rajesh Kumar	Big Data Analytics in Power	Pursuing
47.	Mr. Ranjeet Kumar	Dr. Dipti Saxena	Fault Identification and Location in Active Distribution System	Pursuing



### List of Candidates Awarded M. Tech. Degree

S.	Name of	Supervisor	Title of Thesis	Status
No.	Student			
1.	Mr. Dev Kumar	Dr. Vikas Gupta	Comparative analysis of different controllers on two area interconnected power system model using gravitational search algorithm	Awarded
2.	Ms. Pooja Jain	Dr. Rajive Tiwari	Voltage stability evaluation and enhancement using equivalent nodal analysis	Awarded
3.	Mr. Harish Kumar Varshney	Dr. Rajesh Kumar	Electricity price forecasting incorporating exogenous variables for smart grid frame work	Awarded
4.	Mr. Vipin Chandra Pandey	Dr. Nikhil Gupta	Dynamic economic load dispatch with renewable energy sources using an improved firework algorithm	Awarded
5.	Mr. Ajay Kumar	Dr. H.P.Tiwari	Optimization based shunt active filter to mitigate power quality problems in distribution system	Awarded
6.	Mr. Shiv Kumar	Mr. V.K.Jain	Robust digital relaying scheme to prevent the miscoordination of recloser-fuse in distributed generation	Awarded
7.	Ms. Jaishree Choudhary	Mr. V.S. Pareek	Household load scheduling in a smart home	Awarded
8.	Ms. Niharika Gotherwal	Dr. Nitin Gupta	Comparative analysis and performance improvement of shunt active power filter using fuzzy logic control	Awarded
9.	Ms. Harita Shah	Dr. Kusum Verma	Voltage stability monitoring using AI techniques and synchrophasor measurements	Awarded
10.	Mr. Vikram Singh	Prof. Manoj Fozdar	Islanding detection using improved SMS method in grid connected converters	Awarded
11.	Mr. Rahul K. Malee	Mrs. Prerna Jain	Distribution system expansion planning considering DG integration	Awarded
12.	Mr. Jasmender Singh	Dr. Dipti Saxena, Dr. H. P. Tiwari	Load frequency control in multi area power system	Awarded





#### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

S. No.	Name of student	Supervisor	Торіс	Status
110.				
1.	2015REC9538 VARUN SETIA	Prof K.K. Sharma	Metamaterials for 5G applications	Continuing
2.	2015REC9045 MUQUADDAR ALI	Prof K.K. Sharma Prof R P Yadav	SIW for 5G applications	Continuing
3.	2008REC502 HITENDRA GUPTA	Prof K.K. Sharma	Resource efficient FPGA implementation and weighted logarithmic model for enhancement of fog degraded images	Continuing
4.	2014REC9027 NIDHI SAXENA	Prof K.K. Sharma	New pansharpening schemes based on HVD, FRFTand GSP	Continuing
5.	2013REC9570 TANUSHREE SHARMA	Prof K.K. Sharma	New methods of QRS detection and classification	Continuing
6.	2013REC9543 HEMANT KUMAR MEENA	Prof K.K. Sharma Prof S D Joshi	Graph signal processing based facial expression recognition	Continuing
7.	2013REC9056 HEMANT SHARMA	Prof K.K. Sharma	Investigations on ECG signals for deriving respiratory signal and sleep apnea detection	Viva-voce exam to be conducted
8.	Praveen Gupta	Prof K.K. Sharma Prof S D Joshi	EMD based baseline warder removal, HRV analysis of ECG signals and fetal heart rate extraction	Awarded



9.	Seema Deepak Yardi (2010REC115)	D.Boolchandani	A novel Technique for Using Polymers as Optical interconnects and Sensors for Biological Recognition	Completed
10	SANJAY KUMAR SINGH (2010REC206)	D.Boolchandani	Design and Performance Evaluation of Tuning Methods of PID Controller	Submitted
11	TARUN VARMA (2010REC505)	D.Boolchandani	Design and Development of Zinc Oxide thin film based Schottky Diodes and TFTs and their application as UV Detectors	Ongoing
12	Ms. SapnaKhandelwal (2012REC9045)	D.Boolchandani	Reliability aware SVM based Surrogate models for analog and Digital circuits.	Ongoing
13	Mr.VimalAgarwal (2011REC7104)	D.Boolchandani	Design and Development of inertial Sensor	Ongoing
14	Mr. Raju Patel (2014REC9520)	D.Boolchandani	Design and Development of MEMS Based Ultra Violet Light Sensor	Ongoing
15	Mr. Tangudu Bharat Kumar (2014REC9520)	D.Boolchandani	Design of Signal conditioning circuits for Vibration sensors	Ongoing
16	Mr. ArunKishorJohar (2015REC9018)	D.Boolchandani	Interface circuits for On Chip MEMS Based Sensors and Actuators	Ongoing
17	Mr.PREM KUMAR (2016REC9535)	D.Boolchandani	Design and Development of MEMS Devices for RF applications	Ongoing
18	Mrs. Soma Kumawat	Dr. M. Ravi Kumar	SAC-OCDMA	Ongoing



19	Mr. Nitesh Kumar	Dr. M. Ravi	Growth, and	Ongoing
		Kumar, Dr.Manish Mathew	characterization of LEDs	
20	JaydeepsinghParmar	Dr. Chitrakant	Junctionless transistor for biosensng application	Pursuing
21	Urvashi P. Shukla	Dr. Satyasai Jagannath Nanda	Nature Inspired Clustering	Pursuing
22	Rahul K. Vijay	Dr. Satyasai Jagannath Nanda	Seismic Signal Processing	Pursuing
23	Rahul Ratnakumar	Dr. Satyasai Jagannath Nanda	Hardware implementation of Clustering	Pursuing
24	Rachana K. Gupta	Dr. Satyasai Jagannath Nanda	Remote Sensing Image Segmentation	Pursuing
25	Dinesh K. Kotary	Dr. Satyasai Jagannath Nanda	Clustering Applications in Wireless Sensor Networks	Pursuing
26	VikasPathak	Dr. Satyasai Jagannath Nanda Dr. Amit M. Joshi	Hardware Implementation for Genomic Signal Processing	Pursuing
27	Anup Kumar Sharma	Dr. Ritu Sharma	Synthesis and Characterisation if CNTs and its thin film application	Pursuing
28	Shanky Saxena	Dr. Ritu Sharma and Dr. B D Pant	Design and fabrication of cantilevertype MEMS based piezoelectric energy harvester	Pursuing



-	20	Kamal Carrow'	$\mathbf{D}_{\mathbf{r}}$ $\mathbf{D}_{\mathbf{r}}^{\mathbf{t}}$ $\mathbf{O}_{\mathbf{r}}^{\mathbf{t}}$	Derien en la 1 ' C	Derma
	29	Komal Swami	Dr. Ritu Sharma	Design and analysis of low power high performance sequential logic circuit using various optimization techniques	Pursuing
	30	LalitDusad	Dr. Ritu Sharma	Synthesis and characterization of Si nano wire for PV application	Pursuing
	31	Girraj Sharma	Dr. Ritu Sharma	Spectrum sensing and energy efficiency in cognitive radio	Pursuing
	32	Nikhildeep Gupta	Vijay Janyani	Thin Film Solar Cells based on PhC	Ongoing
	33	AmitGarg	Vijay Janyani	Gigabit passive optical networks	Ongoing
	34	Deependra Kant	Vijay Janyani, L M Joshi CEERI Pilani	High power microwave tubes	Ongoing
	35	SandeepVyas	Ghanshyam Singh	Non linear optics and supercontinuum generation in PCFs	Awarded
	36	Mukesh Kumar Gupta	Ghanshyam Singh	Modeling and analyses of Optical Networks	Submitted
	37	Monika Mathur	Ghanshyam Singh	Evaluation of Microstrip Antenna using concepts of Di-electric Engineering	Submitted
	38	SourabhSahu	Ghanshyam Singh	Photonic bio-sensors	In progress
	39	ShrutiKalra	Ghanshyam Singh	Investigating interaction of light and highly nonlinear matter in micro- structured optical fibre for modifying nonlinearities	In progress



40	Ashish Kumar Ghunawat	Ghanshyam Singh	Non linearity	In progress
			enhancements using	
			Photonic Crystals	
41	Dr.Shashikant Sharma	Dr.C.Periasamy	Investigations on	Awarded
			NanocrystallineZnO Thin	2016
			Film Based	
			Heterojunctions for	
			Optoelectronic and	
			Photonic Device	
			Applications	
			1 1	
42	Dr.LintuRajan	Prof.VineetSahula	Design, Fabrication and	Awarded
			Characterization of Zinc	2017
		Dr.C.Periasamy	Oxide Thin Film Based	
			Schottky Diodes for	
			Hydrogen Sensing	
			Applications	
			. The second second	
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### List of Candidates Awarded M. Tech. Degree

S.	Name of Student	Supervisor	Title of Thesis	Status
No.				
1	Ankit	Prof. K. K. Sharma	Fingerprint matching using linear	
			canonical transform and wavelet based	
			features	
2	Ravi Kumar Goyal	Prof. K. K. Sharma	Slotted microstrip patch antennas at	
			60 GHz millmeter wave frequency	
			band for 5g wireless applications	
3	Priyanshu Sharma	Prof. K. K. Sharma	Study of watermarking based on EMD	
4	Aakashdeep Shrivastava	Prof. K. K. Sharma	Digital image watermark embedding	
			and detection using logarithmic	
			scheme in spatial domain	
5	Ashutosh Kumar	Prof. K. K. Sharma	Analysis of seismic signals using	
			empirical mode decomposition	
6	Updesh Kumar	Prof. K. K. Sharma	Alternate Realization of Fully	
			Differentail Current Conveyor and its	
			Application in Universal Filter	
7	Rachna Gera	Prof. K. K. Sharma	Global contrast & local detail	
			enhancement of images & their	
			quality metrics	
8	Jyoti Meena	D.Boolchandani	Bias Temperature Instability Analysis	Completed
	(2014PEV5021)		on 6T-SRAM and its Peripherals	
9	Anurag Bhadauria	D.Boolchandani	Modeling and Simulation of Film	Completed
	(2014PEV5276)		Bulk Acoustic Resonator (FBAR) as a	
			GAS Sensor	
10	Mayank Choudhary	D.Boolchandani	Design of a MEMS based	Completed
	(2014PEV5286)		Piezoresistive Wind Pressure Sensor	
11	Shiv Narayan	D.Boolchandani	Design and Simulation of Single layer	Completed
	(2014PEV5303)		Adder Designs Using QuantumDot	
			Cellular Automata	
12	Shivani Goel	Dr. M. Ravi Kumar	Optimal Uniformity of Optical Power	Awar ded
			Distribution in VLC System using	
			Genetic Algorithm	



13	Shankar Lal Barala	Dr. M. Ravi Kumar	Performance analysis of two	Awarded
			dimensional codes in optical code	
			division multiple access systems	
14	Pavan Kumar Meena	Dr. M. Ravi Kumar	Experimental observation of BER in a	Awarded
			visible light communication link	
15	Ashutosh Gupta	Dr. M. Ravi Kumar	Design of polymeric based electro	Awarded
			optic phase modulator for visible light	
16	Neetika Meena	Dr. M. Ravi Kumar	Zero Ultra-Flattened Dispersion	Awarded
			Borosilicate Honeycomb Photonic	
			Crystal Fiber	
17	Shobha Sharma	Dr. M. Ravi Kumar	Image Fusion based on Geometric	Awarded
			Mean Decomposition	
18	Kailash	TarunVerma		Awarded
19	Jyoti Prakash	TarunVerma		Awarded
20	Nabjeet Deka	TaunVerma		Awarded
21	Asish Sharma	Dr. S. J. Nanda	Arrival Time Detection of Seismic	Awarded
			Waves using Improved S Transform	Degree
22	Vikas	Dr. S. J. Nanda	A New Multi-Objective Moth Flame	Awarded
			Optimization and its application to	Degree
			power distribution problem	
23	Koushlya Kumari	Dr. S. J. Nanda	Optimal Path determinationin an	Awarded
			survivable virtual topology of an	Degree
			optical network using Ant Colony	
			Optimization	
24	Kuldeep Kumar	Dr. S. J. Nanda	A current feedback amplifier based	Awarded
			approach for efficient design of low	Degree
			complexity universal biquadratic	
			filters	
25	Binayak Gouda	Dr. S. J. Nanda	Application of a new correlation based	Awarded
			affinity propagation algorithm to 3D	Degree
			human modelling	



26	Amrit Veer Kaur	Dr. Ritu Sharma	Design and analysis of design and	Completed
			analysis of hexagonal, octagonal and	
			Decagonal photonic crystal fibers for	
			various optical	
			Properties	
27	Julie Devi	Dr. Ritu Sharma	Design and analysis of spiral photonic	Completed
			crystal fiber with circular and	
			elliptical air holes for flattened	
			dispersion and birefringence	
			properties	
28	Richhpal Jat	Dr. Ritu Sharma	Smart stick for visually impaired	Completed
			person	
29	Anukul Sharma	Vijay Janyani	Improved performance analysis	Completed
			F gigabit passive optical networks	
30	Chandan Kumar Sharma	Vijay Janyani	Optical network units internet working	Completed
			architectures for wavelength division	
			multiplexed passive optical networks	
31	ManishaVerma	Vijay Janyani	Design and simulation of eo-	Completed
			modulator and Application in multi-	
			wavelength short pulse	
			Generation	
32	Rakesh Raushan	Vijay Janyani	Adaptive link rate based hybrid	Completed
			passsive optical network	
33	Amresh Ashok Madavi	Vijay Janyani	Energy efficient architecture of dwdm	Completed
			pon with	
			Flexible and enhanced data rate	
34	Harsh Kumar	Ghanshyam Singh	Lithuim Niobate based all optical	Completed
			devices for PICs	
35	Sanjay Kumar	Ghanshyam Singh	MgO doped Lithium	Completed
			Niobatewavguides based all optical	
			modulator	
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#### **DEPARTMENT OF HUMANITIES & SOCIAL STUDIES**

S. No.	Name of student	Supervisor	Торіс	Status
1.	Shveta Tripathi	Dr. Nupur Tandon		Ongoing
2.	Ambika Singh	Dr. Nupur Tandon	Individual and Social Paralysis in the Later Plays of Arthur Miller	Ongoing
3.	Sheeba Anjum	Dr. Nupur Tandon	-	Ongoing
4.	Kanupriya	Dr. Preeti Bhatt	Dramatic Technique in the Major Plays of Girish Karnad	Awarded
5.	Pulak Avinashi	Dr. Preeti Bhatt	Interpreting 'Space' in Alice Munro's Short Stories	Ongoing
6.	Prince Dawar	Dr. Preeti Bhatt	-	Ongoing
7.	Manvendra Singh	Dr. Vibhuti Singh Shekhawat	The Drift of Xenophobic and Jingoistic Aspirations in North-East India: A Study in the Context of Socio-Political Syndrome	Submitted
8.	Priyanka Jain	Dr. Vibhuti Singh Shekhawat	Impact of Transnational Migration on Identities of Chakmas in North-East and Consequential Shifts in India's Foreign Policy	Ongoing
9.	Ginisha Dewani	-do-	Urban Development in 21st Century with Special Reference to Jaipur City	Ongoing
10.	Ms. Shikha Singh	Dr. Dipti Sharma	Empirical Investigation of India's Trade With EU and ASEAN	Awarded



Γ	11.	Ms. Boola	Dr. Dipti Sharma	Socio-Economic	Submitted
		Choudhary		Assessment Study of	
				Decentralized Rural	
				Electrification based on	
				Solar Energy in	
				Rajasthan	
F	12.	Mr. Amit Kumar	Dr. Dipti Sharma	Course Work	Ongoing
		Sharma		Completed	
	13.	Ms. Namrata	Dr. Dipti Sharma	Course Work	Ongoing
		Bhardwaj			

#### **DEPARTMENT OF MATHEMATICS**

S. No.	Name of student	Supervisor	Торіс	Status
1.	Prafull Chabra	Prof K C Jain	A Study of Inequalities on new generalized information divergence measure and their Application	Awarded (Sept 2016)
2.	Priyanka Harjule	Prof. Rashmi Jain	On recent advances in special functions and fractional calculus with applications	Awarded (Jan 2017)
3.	Manish Bansal	Prof. Rashmi Jain	A study of mellin-barnes type integrals, general polynomials and integral operators of arbitrary orders of single and multiple variables with applications	Submitted
4.	Nidhi Jolly	Prof. Rashmi Jain	Investigations in integral transforms and fractional integral operators involving special functions and polynomials with applications to the solutions of ordinary and partial differential equations with integral and fractional orders	Pursuing



5.	Kavita Khandelwal	Dr Vatsala Mathur	Fractional Approach to Fluid Dynamics	Awarded(May 2016)
6.	Mohan Kumar Choudhary	Dr. Santosh Chaudhary	Computational Study of MHD Boundary Layer Flow Problems	Pursuing
7.	KM Kanika	Dr. Santosh Chaudhary	Numerical Investigation of Magnetohydrodynamic Fluid Flow with or without Nanoparticles	Pursuing
8.	Sheikh Mohammed Faisal	Dr Sanjay Bhatter	A Study of Differential and Integral Calculus of Arbitrary Order and New GeneralisedMittag-Leffler Function with Applications	Awarded(Dec 2016)
9.	Mahesh P. Goswami	Dr. Ritu Agarwal	Bicomplex integral transforms and applications	Submitted
10.	Sonal Jain	Dr. Ritu Agarwal	A study of some advances in fractional Calculus and special functions with modelling and applications in physical system	Submitted
11.	Mahaveer P. Yadav	Dr. Ritu Agarwal	A study of fractional calculus with applications in groundwater flow problems	Pursuing
12.	Kririka	Dr. Ritu Agarwal	Applications of fractional calculus	Pursuing



#### **DEPARTMENT OF MECHANICAL ENGINEERING**

S. No.	Name of student	Supervisor	Торіс	Status
1.	Chandrakumar Mukundaji Badole	Prof. A. P. S. Rathore, Prof. Rakesh Jain, Dr. Bimal Nepal	Development of an integrated framework of RFID based supply chain of perishable products	Awarded
2.	Surya Prakash	Dr. Gunjan Soni, Prof. A. P. S. Rathore	Robust Supply Chain Design and Optimization under Risks and Uncertainties	Awarded
3.	Nisha Goyal	Dr. Satish Kumar,Prof. A. P. S. Rathore	Financial Literacy and Behavioural Biases: A Study of Indian Investors	Pursuing
4.	Niketa Jain	Prof. A. P. S. Rathore, Prof. Rakesh Jain, Prof. O. P. Yadav	Reliability and Warranty Framework for Multi-State Multi-Component System	Pursuing
5.	Avanish Singh Chauhan	Prof. A. P. S. Rathore, Dr. Gunjan Soni	An Integrated Approach Towards Risk Management in New Product Development Process	Pursuing
6.	Peeyush Vats	Dr. Gunjan Soni, Prof. A. P. S. Rathore	Multi-objective Inventory Optimization for a Supply Chain under Uncertainty	Pursuing
7.	Ashish Dutta	Prof. A. K. Bhardwaj, Prof. A. P. S. Rathore	Development of a Methodology to Measure the Ergonomic Compatibility of a Passenger Car	Pursuing
8.	Mahendra Singh Shekhawat	Dr. Harlal Singh Mali, Prof. A. P. S. Rathore	Experimental Investigation on Hybrid Electro-Discharge Centreless Grinding (EDCG) Processes	Pursuing
9.	Sumit Gupta	Prof. G S Dangayach Dr. Amit Singh Prof. P N Rao	Some issues in Sustainable Manufacturing: A Select Study of Indian Manufacturing Companies	Awarded



10.	Deepak Kumar	Prof. G S Dangayach Prof. P. N. Rao	Optimization of Plastic Injection Molding Process	Submitted
11.	Bhawna Mathur	Prof. G S Dangayach	Supply Chain Performance Measurement in Health Care Industry	In-process
12.	Manish Jindal	Prof. A. Bhardwaj Prof. G S Dangayach	Study of Institutional Promoted Entrepreneurship Development in India	In-process
13.	Hansini Premi	Dr. Monica Sharma Prof. G S Dangayach	A study on buying behavior and development of marketing strategies for green products	In-process
14.	Umesh Chaturvedi	Dr. Monica Sharma Prof. G S Dangayach	Sustainability trends and practices In indian pharmaceutical industry	In-process
15.	Gaurav	Prof. G S Dangayach Dr. M. L. Meena	Sustainable Machining through MQL	In-process
16.	Jai Narain	Dr. M. L. Meena Prof. G S Dangayach	Safety aspects in Indian Industries	In-process
17.	Mayank Bhatnagar	Prof. Jyotirmay Mathur, Dr. Vishal Garg	Building energy efficiency, Solar thermal, HVAC	Pursuing
18.	Sanjay	Prof. Jyotirmay Mathur, Dr. Sanjay Mathur	Thermal comfort, Building Energy Conservation, Bio- climatic design, Solar Thermal	Submitted
19.	Partha Das	Prof. Jyotirmay Mathur, Dr. Rohit Bhakar	Energy System Modelling, Renewable energy Integration, Energy Policy	Pursuing
20.	Prateek Srivastva	Prof. Jyotirmay Mathur, Dr. Mahabir Bhandari	HVAC, Building Energy Efficiency, Combustion	Pursuing
21.	Sankar Barman	Dr. Sanjay Mathur, Prof. Jyotirmay Mathur	Renewable energy system modelling and product, development, Energy efficiency, SPV application in building, Solar thermal and Thermal energy storage	Pursuing



22.	Priyam Tewari	Dr. Sanjay Mathur, Prof. Jyotirmay Mathur	Passive Heating and Cooling in Buildings, Earth Air Tunnel Heat Exchanger	Pursuing
23.	Rana Veer Pratap Singh	Prof. Jyotirmay Mathur	HVAC, Building Energy Efficiency, Thermal energy storage	Pursuing
24.	Amit Aherwar	Dr. Amit Singh	Study of Physical, Mechanical and Sliding Wear Characterization of Femoral Head Material for Hip Joint Replacement	Awarded
25.	Mukesh Kumar	Dr. Amar Patnaik Dr. B.K.Satapathy	PerformanceAssessmentofHybridCompositeFrictionMaterials:EffectofCeramic,OrganicandInorganicFiberCombinationsCombinationsCombination	Awarded
26.	Shiv Ranjan	Dr. Amar Patnaik Prof. I.K.Bhat	Development and Performance Assessment of Nano-composite materials for Dental Applications	Awarded
27.	Vikas Gautam	Dr. Amar Patnaik Prof. I.K.Bhat	Tribo-Performance of MultilayerSurface Coating On Granite DustFilled Metal Alloy Composites	Awarded
28.	Swati Gangwar	Dr. Amar Patnaik Prof. I.K.Bhat	An Investigation of Mechanical, Thermal and Wear Properties of Marble Dust/Calcium Oxide filled Metal Alloy Composites for Ball Bearing	Awarded
29.	Manoj Pawar	Dr. Amar Patnaik Prof. R. Nagar	Experimental Studies on Mechanical, Thermal and Erosive Wear Characteristics of Granite Powder Filled Fiber Reinforced Polymer Composites for Wind Turbine Blade	Awarded
30.	Amit Aherwar	Dr. Amit Singh Dr. Amar Patnaik	Study of Physical, Mechanical andSlidingWearCharacterization of Femoral HeadMaterialforHipJointReplacement	Awarded





31.	Anoj Meena (Internal	Dr. Harlal S. Mali Dr. Amar Patnaik	Study of physical, Mechanical and wear characteristics of particulate filled dental	Awarded
	× ·		composites	
32.	Ashwini Kumar	Dr. Amar Patnaik	Wear and Fatigue Analysis of	Pursuing
		Prof. I. K. Bhat	Gear in Hydraulic Pump.	
33.	Vikas Kuksal	Dr. Amar Patnaik	Thermo-chemical Wear	Pursuing
		Prof. I. K. Bhat	Analysis of Coated Metal Composite for Gun Barrel	
34.	Pankaj Kumar	Dr. Sandeep	Structural adhesives in	Pursuing
		Chaudhary	concrete and composite connection interface and	
		Dr. Amar Patnaik	influencing factors	
35.	Vinayak Rajashekhara Kiragi,	Dr. Amar Patnaik	Development of Ti-Al-N based coating on Al-alloy for application in hydroturbine blades (CSIR, New Delhi)	Pursuing
36.	Mahaveer Choudhary	Dr. Amar Patnaik	Development of Marble Dust Filled Reinforced Polymer Composite for Wind Turbine Blade (DST, New Delhi)	Pursuing
37.	Chandramani Goswami	Dr. Amar Patnaik Prof. I.K.Bhat		Pursuing
38.	Saurav Kumar	Dr. Vinod Kumar	Tribological study of High	Pursuing
		Dr. Amar Patnaik	entropy alloy	
39.	Bhagiratha Sahu	Dr. Amar Patnaik Prof. M.K Banerjee	Economic production of iron through direct reduction of Mill Scale by low grade coal of Rajasthan (Ministry of Steel, New Delhi)	Pursuing
40.	Ankush Sharma	Dr. Amar Patnaik Prof. S.K.Biswas	Effect of microstructure on shock behaviour of SiC ceramics for armor application (DRDO, New Delhi)	Pursuing
41.	Shrinivas Rathod	Dr. Amar Patnaik	Tribological and mechanical behavior of MMC	Pursuing



42.	Sourabh Bhaskar	Dr. Mukesh Kumar Dr. Amar Patnaik	DevelopmentofMMCcomposites for gas turbine blade	Pursuing
43.	Hemant Kumar Gupta	Dr. G. D. Agrawal and Dr. J. Mathur	Investigations of Nanofluid Based Direct Absorption type Flat Plate Solar Collector	Completed
44.	Shiv Raj Dahka	Dr. J. Mathur and Dr. G. D. Agrawal	Quantification of Thermal Adaptation in conditioned and unconditioned buildings of composite climate	Completed
45.	Alok Manas Dubey	Dr. G. D. Agrawal and Dr. J. Mathur	AnalysisofTranscriticalCO2/PropyleneCascaded System	Completed
46.	Anuj Mathur	Dr. Sanjay Mathur and Dr. G. D. Agrawal	Energy and environmental aspects of buildings	Completed
47.	Kunj Bihari Rana	Dr. G. D. Agrawal and Dr. J. Mathur	Heat transfer phenomenon of nanofluids in subcooled flow boiling	Completed
48.	Rajesh Chedwal	Dr. J. Mathur and Dr. G. D. Agrawal	Energy analysis and greenhouse gas mitigation options for hotels in Jaipur city	Completed
49.	Abhay Dinker	Dr Madhu Agarwal and Dr. G. D. Agrawal	Performance study of new phase change materials for low temperature applications	Thesis submitted
50.	Kamal Kumar Agrawal	Dr. G. D. Agrawal and Dr. Rohit Mishra	Thermal performance studies of EATHE system with water impregnation	On going
51.	Sheetal Kumar Jain	Dr. G. D. Agrawal and Dr. Rohit Mishra	PerformanceAnalysisofartificiallyroughenedSolarAirHeater in outdoor conditions	On going
52.	Mr Ashish Kumar Srivastava (2013RME9029)	Dr Dinesh Kumar	Modeling and Characterization of CNT and Graphene Based Nanocomposites and an Investigation on the Postbuckling Behavior of Nanocomposite Plate	Submitted





53.	Kanishk Sharma	Dr Dinesh Kumar	Modeling & Simulation for	Submitted
	(2013RME9036)		Stability and Failure Analysis	
	(2015)((112)050)		of Functionally Graded Plate	-
			under Mechanical and/or	
			Thermal Loading	
54.	Anubhav Kumar	Dr Dinesh Kumar	Vibration Behavior of	Ongoing
	(2014RME9061)		Stiffened FGM Shell with	
			Temperature Dependent Material Properties	
			Material Troperties	
55.	Akhileshwar	Dr Dinesh Kumar	Molecular Simulation Studies	Ongoing
	Singh		on the Effects of Cross-linking,	
	(2015RME9030)		Functionalization and Interface	
			on Mechanical Properties of	
			Nano Filler Reinforced	
			Composite	
56.	Doraj Kamal	Prof. Dilip Sharma	Studies on Ethanol Fuelled C.I.	Completed
	Jamuwa	Prof. S. L. Soni	Engine Operated Micro-CHP	
			System	
57.	Pradeep Kumar	Prof. Dilip Sharma	Studies on Emission Reduction	Submitted
	Gupta	Prof. S. L. Soni	Tashniguas in Automobilas	
		1101. S. L. Som	Techniques in Automobiles	
58.	Dheeraj Kishor	Prof. Dilip Sharma	Studies on Thermal Storage	Ongoing
	Johar		Integrated Micro-Trigeneration	
		Prof. S. L. Soni	System	
59.	Anmesh Kumar	Prof. S. L. Soni Prof.	Experimental Studies on	Ongoing
	Srivastava	Dilip Sharma	Performance, Exhaust Emissions	
			and Combustion Characteristics	
			of Acetylene-Diesel Fuelled Stationary Single Cylinder C.I.	
			Engine	
60.	Aasish Nayar	Prof. Dilip Sharma	Studies on the Effect of Fuel	Ongoing
			Additives	
		Prof. S. L. Soni	on the Engine Performance	



61.	Jitendra Singh	Prof. Dilip Sharma	Development of Solar Operrated Cogeneration System for Remote Applications	Ongoing
62.	Hemant Raj Singh	Prof. Dilip Sharma Prof. S. L. Soni	Solar operated Trigeneration System	Ongoing
63.	Sumit Sharma	Prof. Dilip Sharma Prof. S. L. Soni	Topic yet to be finalyzed	Ongoing
64.	Pushpendra Sharma	Prof. S. L. Soni Prof. Dilip Sharma	Topic yet to be finalyzed	Ongoing
65.	Deepak Rajendra Unune	Dr. Harlal Singh Mali	Fabrication of micro-features in Inconel 718 superalloy using hybrid EDM processes	Awarded
66.	Jai kishan	Dr. Harlal Singh Mali	Development of Unidirectional Abrasive Flow Machine for Internal Finishing of Price Sensitive Industrial Components	Submitted
67.	Bhargav Prajwal Pathri	Dr. Harlal Singh Mali Prof. Ravindra Nagar	Characterization and Machinability Study of Rajasthan's Marble Stone for Sustainable Processing	Submitted
68.	Rupali Bhagel	Dr. Harlal Singh Mali Prof. SK Biswas	Machinability study and machining of micro features on ceramic materials by hybrid micro-machining processes and their characterization for various applications	Pursuing



### List of Candidates Awarded M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of Thesis	Status
1.	Vikram Badaya	Prof. A. P. S. Rathore	E-commerce Performance Measurement: A Comparative Study of Indian E-commerce Industry	Awarded
2.	Rakesh Kumar	Prof. A. P. S. Rathore	An Integrated Approach to Improve Customer Satisfaction and Utilities of Key Attributes of a Product in the Design Phase of Product Development Process	Awarded
3.	Madhubala Kushwah	Prof. A. P. S. Rathore	Analysing Risk in New Product Development Process : A Case Study	Awarded
4.	Shrikant Bansal	Dr. M.L. Mittal	Project selection using hybrid AHP and PROMETHEE	Awarded
5.	Vikram Badaya	Prof. A.P.S. Rathore	E-commerce supply chain performance measurement- a comparative study of Indian e-commerce (B2C) industry	Awarded
6.	Anil Choudhary	Dr. M.L. Meena	Productivity improvement in electrical appliance industry using lean manufacturing	Awarded
7.	Manoj Kumar Jagrawal	Prof. Awadhesh Bhardwaj	Effects of noise on Jaipur low floor bus driver's performance	Awarded
8.	Arun Singh Dagur	Prof. Awadhesh Bhardwaj	Evaluation of risk related to musculoskeletal disorders on building construction sites	Awarded
9.	Mukesh Kumar Sharma	Dr. Gunjan Soni	Assesment of lean implementation using fuzzy AHP	Awarded
10.	Arun Kumar	Dr. Gunjan Soni	Critical factors of customer satisfaction in a service facility: a case study of guesthouse	Awarded
11.	Vikash Gupta	Dr. M.L. Meena	Process improvement using DMAIC in tyre manufacturing company	Awarded
12.	Shivratan Sidh	Dr. M.L. Meena	Improving musculoskeletal health among workers of wooden furniture manufacturers	Awarded



13.	Mukesh Kumar	Prof. G Agarwal	A (Q, r, Rc) inventory model based upon order criticality	Awarded
14.	Pankaj Kumar Barman	Prof. M.L. Mittal	Using fuzzy AHP and DEAHP methods for supplier selection in a manufacturing company	Awarded
15.	Gourav Kumar Jain	Prof. Rakesh Jain	Developing a coordination framework for a supply chain using fuzzy analytical hierarchy process in small scale manufacturing firm	Awarded
16.	Manish Katara	Prof. M.L. Mittal	Application of cost-effectiveness analysis in obsolescence management: GREY MADM approach	Awarded
17.	Rakesh Kumar	Prof. A.P.S. Rathore	An integrated approach to improve customer satisfaction and utilities of key attributes of a product in the design phase of product development process	Awarded
18.	Amit Bhaskar	Prof. Rakesh Jain	A modified close neighbour algorithm for designing cellular manufacturing system	Awarded
19.	Sanjeev Kumar	Prof. M.L. Mittal	A hybrid fuzzy multi attribute decision making approach for prioritizing catering service companies	Awarded
20.	Kushal Pal Singh	Dr. M.L. Meena	Optimization of route using metaheuristic approaches: travelling salesman problem	Awarded
21.	Manish Heet	Dr. Gunjan Soni	Supply chain network design in an uncertain environment using stochastic programming	Awarded
22.	Madhubala Kushwah	Prof. A.P.S. Rathore	Analyzing risk in new product development process: a case study	Awarded
23.	Vishal Garg	Dr. G S Dangayach	Assessment of Enablers & Barriers to Sustainable Product Returns & Recovery Practices in Manufacturing Industry	Awarded
24.	Robin Jain	Prof. Jyotirmay Mathur	Performance analysis of radiant cooling system integrated with cooling tower for different indian climatic conditions	Awarded



25.	Ravi Garg	Prof.	Development and performance analysis of	Awarded
23.	havi Guig	Jyotirmay Mathur	personalized radiant conditioning system	Twarded
26.	Gaurav Kumar Singh	Prof. Jyotirmay Mathur	Dessicant assisted radiant cooling system with solar regeneration	Awarded
27.	Vivek Kumar	Prof. Jyotirmay Mathur	Capacity assessment of radiant cooling panel system through experimental and simulation approach	Awarded
28.	Sunil Sharma	Prof. Jyotirmay Mathur	Development of predictive formulae for high thermal mass office buildings in composite climate of India	Awarded
29.	Badgujar Ashish Ashok	Dr. Amit Singh	Evaluation of Warpage and Shrinkage using Conformal Cooling Channels	Awarded
30.	Lavoori Ramesh	Dr. Amit Singh	Fault Detection of Rotating Shaft using Vibration Analysis	Awarded
31.	Kurkute Sanmati Sharadrao	Dr. Amit Singh	Fault Detection of Two Stage Reduction Gear Box using Vibration Analysis Techniques	Awarded
32.	Ishan Sharma	Dr. Amar Patnaik	Dry sliding wear characteristics of AlN and CrN coated 316L Steel for Artificial Hip implant	Awarded
33.	Alok Vats	Dr. Amar Patnaik	Erosion Corrosion analysis of sea water for centrifugal pumps in Nuclear power plant	Awarded
34.	Mahender Sharma NITTTR, chandigarh	Dr. Amar Patnaik	Wear analysis of particulate filled metal alloy composites in slurry medium	Awarded
35.	Ankit Agrawal	Dr. G. D. Agrawal	CFD Based Performance Analysis of Earth Air Tunnel Heat Exchanger with Regeneration of Soil	Completed
37.	Mitesh Varseney	Dr. G. D. Agrawal	CFD Based Performance Analysis of Solar Air Heater with Artificial Roughness	Completed



38.	Tejpal Yadav	Dr. G. D.	Experimental study and Performance	Completed
		Agrawal	Analysis of Earth Air Tunnel Heat Exchanger with Regeneration of Soil using water spray	
39.	Vikash Gora	Dr. G. D. Agrawal	Design, fabrication and performance analysis of heat recovery unit in solar thermal energy conversion system used in Jaggery making process	Completed
40.	Mr. Aningi Mokhalingam (2014PDE5052)	Dr Dinesh Kumar	Elastic Properties of Graphene Reinforced Nanocomposites using Molecular Dynamics	Awarded
41.	Gite Anil Babasaheb (2014PDE5072)	Dr Dinesh Kumar	Buckling and Postbuckling Analysis of FGM Plate under Non-uniform In-plane Compressive Loads	Awarded
42.	MANISH ARYA	Prof. Dilip Sharma	Recovery Of Waste Heat From Diesel Engine Exhaust By Using Different Heat Exchangers	Completed
43.	MANMEET KUMAR	Prof. Dilip Sharma	Modelling And Simulation Of A Radiator Using Ansys Fluent	Completed
44.	VINAY GURU	Prof. Dilip Sharma	Effect Of Variation In Fuel Injector Cam Profile On The Performance And Emission Characteristics Of Ci Engine	Completed
49.	Nitesh Kumar	Dr. Harlal Singh Mali	Investigating Feasibility Of Waste Vegetable Oil For Sustainable Electric- Discharge Machining	Awarded
50.	Priyanshu Singh	Dr. Harlal Singh Mali	Computer Aided Modeling And Analysis Of Jaipur Foot	Awarded
51.	Praveen Siyag	Dr. Harlal Singh Mali &Prof. S.S Dhami	Design And Development Of Personalized LPG Cylinder Handling System	Awarded



#### **DEPARTMENT OF MANAGEMENT STUDIES**

S. No.	Name of student	Supervisor	Торіс	Status
1.	Mohit Kant Kaushik	Dr. Deepak Verma	Influence of Student Readiness on Adoption of Digital Learning Technologies in Higher Technical Education	Ongoing
2.	Mayanka	Dr. Deepak Vemra, Dr. Arpan Kar	M-Commerce Adoption in Tourism and Hospitality: Understanding Influence of Customer Typology based on Uses, Gratification and Risk Perception	Ongoing
3.	Monica Sheoran	Dr. Divesh Kumar, Dr. Reeta Singh	Sustainablity marketing	Ongoing
4.	Hansini Premi	Dr. Monica Sharma, Prof. G.S. Dangayach	Green Consumer Behavior	Ongoing
5.	Varsha Shar ma	Dr. Reeta Singh	HR Evaluation In Service Sector	Ongoing
6.	Nisha Goyal	Dr. Satish Kumar	SMES Financing Behavior	Ongoing
7.	Harsh Pratap	Dr. Satish Kumar, Prof. A. Bhardwaj	SMES financing in India	Submitted
8.	Purnima	Dr. Satish Kumar	SMES financing practices in India	Submitted
9.	Shradha Gupta	Dr. Monica Sharma	Supply Chain Management	Submitted
10.	Shweta Tomar	Dr. Deepak Verma, Dr. Satish Kumar	Influence of Psychological, Socio-Demographical factors and Financial Literacy on Retirement Financial Planning: A Study of Indian Professional women	Ongoing



11.	Anil Kumar Agarwal	Dr. Monica Sharma	Mobile number portability	Ongoing
12	Sandeep	Dr. Monica Sharma,	Public welfare schemes	Ongoing
	Kumar	Prof.		
		AwadheshBhardwaj		
	<b>TT</b> 1			
13.	Umesh	Dr. Monica Sharma,	Pharmaceuticals industry	Ongoing
	Kumar	Prof. G.S. Dangayach		
	Chaturvedi			
14.	Punyasalok	Prof. G.S.	Waste water management	Ongoing
	aPatnaik	Dangayach, Prof.	C	
	ur utiluiti	AwadheshBhardwaj		
		Awaunesnonaruwaj		
15.	Khusbhu	Satish Kumar	Human Resource	Awarded
15.	ixilusollu	Satish Kuma		
				(2016-17
				Convocation)





#### **DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING**

S. No.	Name of student	Supervisor	Торіс	Status
1.	Akshay Kumar	Prof. M. K. Banerjee	Development of technology of production conducting sheath on soft magnetic material	In progress
2.	Avnish Kumar	Prof. A. Sharma	Study of metallurgical aspects of nitrogen bearing austenitic stainless steels for under- water application	Thesis submitted
3.	Anil Kumar	Dr. Vinod Kumar	Synthesis and characterization of PANI based nanocomposite for electron housing	Thesis submitted
4.	Robin Gupta	Prof. A. Sharma	Study of microstructure and mechanical properties of Al alloy cast through RSFC rapid slurry formation process	In progress
5.	Uma Gupta	Dr. V. K. Sharma	Development of IF steel with improved properties	In progress
6.	Vatsala Chaturvedi	Prof. U. Pandel & Prof. A. Sharma	A study on the effect of vibrations during solidification on AZ91 magnesium alloy	In progress
7.	Rahul Sen	Prof. U. Pandel	Study of reduction kinetics of mill scale by low grade coal	In progress
8.	Sachin Rathi	Prof. A. Sharma	Minimization of hot tears and porosity in Al alloys	In progress
9.	Ornov Maulik	Dr. Vinod Kumar	Development and characterization of light weight high entropy alloy	Thesis submitted
10.	Arun Kumar	Dr. V. K. Sharma	Development of high strength low alloy steel with improved properties	In progress
11.	Shri Kant	Dr. R. K. Duchaniya	Quenching behavior of bottom flooded molten pool	In progress



12.	Nimu Chand Reger	Prof. A. K. Bhargava and Dr.	Effects of dopants on Mechanical, Biological and Metallurgical properties	In progress
		Vamsi Krishna Balla	of plasma sprayed hydroxyapatite coating on Ti-6Al-4V implant	
13.	Versha Goyal	Prof. P. R. Soni	Development of Al nanocomposite for automotive application	In progress
14.	Anurag Hamilton	Prof. A. Sharma	Characterization and erosion study of carbide based thermal spray coating on steel	In progress
15.	Priyanka Meena	Dr. V. K. Sharma	Development of Mg based nanocomposite with improved properties	In progress
16.	Ravindra Singh	Prof. S. K. Biswas	Electrical and mechanical properties of ceramic nanocomposite containing SWCNT	In progress
17.	Vandana Kaler	Dr. R. K. Duchaniya	Studies of thermal and mechanical properties of nano-TiO <sub>2</sub> doped PVA nanocomposite	In progress
18.	Devesh Kumar	Dr. Vinod Kumar	Effect of tungsten on oxidation behavior of AlCuCrFeMnW high entropy alloy	In progress
19.	Saurav Kumar	Dr. Vinod Kumar	Tribological study of HEA	In progress
20.	Ankit Goyal	Prof. P. R. Soni	Nano-crystalline silicon solar cell fabrication using powder metallurgy	In progress
21.	Mukesh Kumar Chowrasia	Prof. M. K. Banerjee	Additive design for ultra high strength steel with toughness	In progress
22.	Nitika Kundan	Prof. P. R. Soni	Synthesis and characterization of Al based in-situ laminated composite for aerospace industry	In progress
23.	Vibha Uttam	Dr. R. K. Duchaniya	Tribology studies of nanocrystalline composite coating deposited by electroless coating process	In progress
24.	Sandeep Kumar	Dr. A. K. Pradhan	Synthesis and characterization Al matrix composites	In progress
25.	Ravindra Singh Shekhawat	Dr. Vijay N. N.	Friction stir welding for automobile and aerospace application	In progress



### List of Candidates Awarded M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of Thesis
1.	Upendra Singh Sengar	Prof. M. K. Banerjee	Effect of pre-straining and aging vanadium micro alloyed steel
2	Prasanth S.	Prof. M. K. Banerjee	Effect of copper precipitation on the mechanical properties of low carbon Cu-B steel for automotive application
3	P. Kranthi Kumar	Prof. M. K. Banerjee	Microstructure evolution and precipitation studies on copper bearing duplex steels
4	Punit Kumar Trivedi	Prof. M. K. Banerjee	Study of Bake hardening kinetics of vanadium micro alloyed low carbon steel
5	Mukesh Kumar Chowrsiaya	Prof. U. Pandel	Simulation of pulverized coal combustion in blast furnace
6	AtulPanwar	Prof. U. Pandel	An investigation on direct reduction on lean iron ore and mill scale at different parameters
7	RampriyaYogeshThak arshibhai	Shri Krishna Kumar	Lean iron ore reduction by DRI method using carbothermic reaction with charcoal as reducing agent and parameters affecting reducibility
8	Atul Singh Bagri	Dr Y. V. S. S. Prasad & Dr Vinod Kumar	Effect of Mg-Si on magnetic property of FeNiCo alloy
9	Chandra Prakash	Dr. R. K. Duchaniya	Characterization studies of TiO <sub>2</sub> doped PVA nanocomposite
10	MukeshSuthar	Prof. P. R. Soni	Study the effects of ceramic nanoparticles addition in aluminium paint used for automobiles
11	Suresh Kumar Solanki	Dr. Vinod Kumar	Synthesis, characterization and COMSOL study of Fe-Co-Ni-(Mn-Si) <sub>x</sub> based alloy powders



12	Deepak	Dr. Vijay N. N.	Synthesis and characterization of shape memory alloy powders of Cu-25%wt.Zn- 5%wt.Al composition using high energy ball milling
13	Manoj Kumar	Dr. N. C. Upadhyay& Dr. Vijay N. N.	Study of boronizing treatment for EN8 and EN24 steel and comparison of properties
14	Chandraketu Singh	Dr. Munan Mandira	Development of aluminium alloy sacrificial anodes reinforced with zinc oxide
15	GauravPurohit	Dr. Munan Mandira	Effect of addition of Zn <sup>2+</sup> ions on the electrochemical behaviour of Al-Zn-Sn sacrificial anodes in 3.5% NaCl
16	Sunil Kumar Jatav	Shri Krishna Kumar, Shri Sandeep Sarkar & Prof. M. K. Banerjee	Experimental and Numerical studies on fluid flow analysis of continuous casting mould under the application of magnetic field
17	Santosh	Prof. A. K. Bhargava	Preparation and characterization of silicon nitride filled polycarbonate nanocomposites
18	Uday Kumar	Shri Krishna Kumar	Mechanical Property of HSLA steel at elevated temperature
19	BhagirathaSahu	Prof. M. K. Banerjee	Study the kinetics involved in direct reduction of lean iron ore with charcoal and detecting the optimum parameters
20	Anurag Singh	Prof. M. K. Banerjee &Shri Vikas Singh	A wear model study of the effect of single, double phase flows with nozzle clogging on bias flow



# **DEPARTMENT OF PHYSICS**

# LIST OF CANDIDATES PURSUING /AWARDED PH.D.

S. No.	Name of student	Supervisor	Торіс	Status
1.	Parul Gupta	Prof. S.K. Sharma	Synthesis and characterization of SnO2 Based Gas Sensor	Pursuing
2.	InduBalaVashistha	Prof. S.K. Sharma	Study of CZTS Thin Film For Solar Cell Application	Pursuing
3.	Poonam Sharma	Prof. S.K. Sharma	Corrosion and oxidation study of some Zr based bulk amorphous alloys for fuel reprocessing applications	Pursuing
4.	Vikas Sharma	Dr. K. Sachdev	An Investigation of High Performance Metal-Metal Oxide Multilayer Structure for Optoelectronic Application	Awarded
5.	Dinesh Saini	Dr. K. Sachdev and Prof. M. K. Banerjee	Structural, thermal and magnetic study of NiCuMnSn/Al Heusler alloys	Pursuing
6.	Satyavir Singh	Dr. K. Sachdev	Investigations on Nb doped $TiO_2$ thin layer for Optoelectronic Applications	Pursuing
7.	SachinSurve	Dr. K. Sachdev	Investigations on Zn <sub>3</sub> N <sub>2</sub> / ZnO /SnO <sub>2</sub> Multilayer based Thin film Transistor	Pursuing



8.	Neeru Sharma	Dr. K. Sachdev	Graphene based Gas Sensor	Pursuing
9.	MeghnaRathore	Dr. Venkatratanam Kamma	Application for quantum optical state in cosmology	Pursuing
10.	RenuDhayal	Dr. Venkatratanam Kamma	Particle creation in the oscillatory phase of two mode thermal state in cosmology	Pursuing
11.	Mr.Mahendra Singh Rathore	Dr. Srinivasa Rao Nelamarri	Growth and modification of structural, optical and electrical properties of GeO <sub>2</sub> thin films	Pursuing
12.	Mr.ArunVinod	Dr. Srinivasa Rao Nelamarri	Structural, optical and electrical properties of metal nanocrystals embedded in dielectric oxide layers for various applications	Pursuing
13.	Mr.RadheShyam	Dr. Srinivasa Rao Nelamarri	Tuning the structural, optical and dielectric properties of nanocrystalline thin films	Pursuing
14.	Pooja Sharma	Dr. Rahul Singhal/ Prof. M. K. Banerjee	Synthesis and modifications metal- carbon nanocomposite	Pursuing
15.	Rajeev Kaushik	Dr. Rahul Singhal/ Dr. Beerpal Singh	Studies on optical properties of embedded metal nanoparticles	Pursuing
16.	Himanshu Sharma	Dr. Rahul Singhal	Optical properties of Ag-TiO2 nanocomposite thin film	Pursuing



17.	Trupti Sharma	Dr. Rahul Singhal/ Prof. S. K. Biswas	Development of efficient polymer- fullerene bulk heterojunction solar cells using plasmonics	Pursuing
18.	Shushant Singh	Dr. Rahul Singhal	Synthesis and characterizations of Ag- ZnOnanocomposite thin film	Pursuing
19.	Veeresh Kumar	Dr. Rahul Singhal	Ion irradiation studies of NiTi shape memory alloys thin film	Pursuing
20.	Priyanka	Subhayan Mandal	Modelling the Dynamics Of a Sheet Swimmer in a Viscous Fluid	Pursuing
21.	Dhanya J.S.	Subhayan Mandal	Probing Star Formation Processes In Galactic Molecular Cloud	Pursuing
22.	Karam Chand	Subhayan Mandal	ALP Photon mixing in a Matter Dominated Flat Expanding Universe	Pursuing
23.	Mr. Anil Kumar	Dr. Vinod Kumar Dr. Kamlendra Awasthi	Synthesis and Structural- Electrical Properties Correlation of Hybrid Polyaniline- CNT Nanocomposites	Submitted
24.	Ms. YogitaKumari	Dr. Kamlendra Awasthi Prof. K. C. Swami	Engineering and characterization of block copolymer based solar cells	Pursuing
25.	Mr. Lokesh K. Jangir	Dr. Kamlendra Awasthi Prof. K. C. Swami	Block copolymer nanotemplates for opto- electronic applications	Pursuing



26.	Mr. Rajesh Kumar	Dr. Kamlendra Awasthi	Functionalized track etched membranes for gas separation and sensing	Pursuing
27.	Shivani Shishodia	Dr. Kamlendra Awasthi	Nanoporous functionalized membranes for application in drug delivery and filteration.	Pursuing
28.	Ritesh Dadhich	Dr. Kamlendra Awasthi Dr. Manoj Kumar	Functional Nano composite polymer membranes for hydrogen separation	Pursuing
29.	Mamta	Dr. Ashok Kumar	Nonlinear processes in radiation matter interaction and application	Pursuing
30.	Yogesh Kumar Saini	Dr. Kavita Lalwani	Search for the lepton flavor violation in upsilon decays at Belle	Pursuing
31.	Manish Kumar	Dr. Kavita Lalwani	Measurement of the CKM angle <sub>3</sub> using B DK for Belle II	Pursuing
32.	Mr. Anoop M D	Dr. Manoj Kumar	Pressure-InducedPhase Transitions in Bismuth Based Topological Insulators	Pursuing
33.	Ms. Pooja Kumari	Dr. Manoj Kumar	Bi-BasedTopological Insulator Nanomaterials for Energy Storage	Pursuing
34.	Mr. Prashant Kumar Sharma	Dr. Manoj Kumar Dr. Kamlendra Awasthi	Electrical and Optical Studies on Functional Nanomaterials(Tentative)	Pursuing
35.	Ms. Jyoti Yadav	Dr. Manoj Kumar	Pressure Induced Superconductivity in Topological Insulator Materials (Tentative)	Pursuing
36.	Ms. Akanksha Kharadia	Dr. Manoj Kumar Dr. Ashok Kumar	Nanostructured Topological Insulators for Spintronic Devices(Tentative)	Pursuing





# **11.7 HONOURS AND AWARDS TO FACULTY MEMBERS**

## **CENTRE FOR DISASTER MITIGATION AND MANAGEMENT**

- (i) Prof. M.K. Shrimali, Government Nominee for RTU Kota
- (ii) Prof. M.K. Shrimali, Member, Core Committee, DASA-2017
- (iii) Prof. M K Shrimali, Advisory Member for DDU Kaushal KENDRA, Skill Development Center
- (iv) Following are the referred International Journals for which research papers are reviewed by Dr. M. K. Shrimali:
  - Journal of Earthquake Engineering and Structural Dynamics, USA (Wiley Publication).
  - Ain Shams Engineering Journal (for Elsevier Science)
  - Journal of Sound and Vibration (for Elsevier Science)
  - Journal of Vibration and Control (USA)
  - Journal of Advances in Structural Engineering (USA)
  - Journal of Engineering Science (China)
  - Journal of Earthquake Engineering and Engineering Vibration, (China: MCEER)
  - Journal of Shock and Vibration
  - Journal of Performance of Constructed Facilities
  - Smart Structures and Systems, An International Journal
  - Earthquake and Structures, An International Journal
  - Earthquake Engineering and Vibration control

#### **CENTRE FOR ENERGY & ENVIRONMENT**

- 1. 9<sup>th</sup> India Power Award. (Energy Club of CEE)
- 2. Rajasthan Renewable Energy Consumption Award. (Energy Club of CEE)
- 3. Wipro Earthaia Award 2016. (Energy Club of CEE)

#### **DEPARTMENT OF CIVIL ENGINEERING**

1. **Outstanding Paper Award** (Third Prize) was given to Dr Rohit Goyal in 8<sup>th</sup> International Conference on Environmental Science and Technology 2016 organized by The American Academy of Science, Houston, Texas, USA, June 6-10.

# **DEPARTMENT OF CHEMICAL ENGINEERING**

1. Prof. S. P. Chaurasia has been appointed as Adjunct Professor in the Department of Chemical & Biological Engineering at Univ. of Saskatchewan for Five years w.e.f. July 2016.



- 3. Prof. S. P. Chaurasia has been nominated as Convener of International Relations Committee of Indian Institute of Chemical Engineers for the year 2017.
- 4. Prof. S. P. Chaurasia has been elected as Secretary to the National Executive council of Indian Desalination association for 2 years (2017-19).
- 5. Prof. S. P. Chaurasia has been elected as Chairman of Jaipur Regional Center of Indian Institute of Chemical Engineers for one year w.e.f. 1<sup>st</sup> July 2016.
- 6. Dr. Sushant Upadhyaya (Department of Chemical Engineering) has received a best paper award under the area of Water Treatment and Adsorption in CHEMCON 2016, 69th annual session of Indian Institute of Chemical Engineers conference held from December 27-30, 2016

## **DEPARTMENT OF CHEMISTRY**

Award	University/Research Organization /Funding Sponsor	Year
VIFA2016	Venus International Foundation, Chennai	2016
OUTSTANDING Faculty Award		

## DEPARTMENT OF ELECTRICAL ENGINEERING

- Dr. Vijayakumar K received the "Young Faculty Fellowship" for Research Project Grant given by Ministry of Communications & Information Technology 2016
- Dr. Vijayakumar K received the "Young Scientist Award" for Start up research grant given by SERB -DST-2016
- Dr. Arun Kumar Verma received "Young Scientist Award" for Start up research grant given as Early Carrier Research Award in Electrical Engineering by SERB DST(Govt. of India) Year 2017.

## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

- 1. IETE-K S Krishan Memorial Award 2016" for Best system oriented co-authored Paper given by IETE New Delhi Year-2016.
- 2. Honors status awarded to our research paper published in Computers in Biology and Medicine in 2016 given by Journal Computers in Biology and Medicine, Elsevier Year 2016.
- 3. The 2017 Albert Nelson Marquis Lifetime achievement Award for Research given by Marquis Whos Who USA Year 2017.
- 4. Young faculty fellowship award from Deity, Government of India towards development of visible light communication.



- 5. Received best research paper award at IEEE UPCON-2016 held at IIT BHU (Banaras Hindu University) during 9<sup>th</sup> to 11<sup>th</sup> Dec. 2016.
- 6. Received best research paper award at Springer OWT-2017 held at MNIT Jaipur during 18<sup>th</sup> to 19<sup>th</sup> Mar. 2017.
- 7. IEEE Photonic Society 'Distinguished Lecturer' for one year term: 2017-18.
- 8. SPIE Visiting Lecturer @Science 3T forum, Samara, Russia, November (22-25), 2016.
- 9. SPIE Visiting Lecturer @Tsinghua University, Beijing (China), September 15-18, 2016.
- 10. OSA Traveling Lecturer @ Belarusian State University, Minsk (Belarus), April (3-5), 2016.
- 11. Elected as Hony. Chairman for IETE Rajasthan Centre Jaipur for 2 year term (2016–2018).
- 12. PI, Indo-Ukraine joint S&T Research project with LNPU Lviv, Ukraine (2015-2017).
- 13. Co-PI of India-Austria sponsored Joint Research project with University of Vienna, Austria (2015-2017).
- 14. Co-PI of India-Egypt, DST sponsored Joint Research project with Cairo University, Egypt (2016-2018).
- 15. Faculty Advisor, OSA Student Chapter, MNIT Jaipur (since June 17th 2013).

# **DEPARTMENT OF MANAGEMENT STUDIES**

- Dr. Satish Kumar received Best faculty award in finance area by Dewang Mehta Business School Award in an event at Mumbai in 2016.
- Dr. Satish received Young faculty award in South Asia Education Award 2017 by EET CRS on March 9, 2017 at Hyderabad.

# **DEPARTMENT OF HUMANITIES & SOCIAL STUDIES**

# Dr. Nupur Tandon:

Served as Associate Dean, Creative Arts & Cultural Society and Alumni Affairs till May 31, 2016

Appointed Head, Department of Humanities and Social Sciences wef June 2017

Appointed Guest Editor, SKIT Research Journal: An International Journal of Engineering, Sciences, Humanities and Management

# DEPARTMENT OF MECHANICAL ENGINEERING

- Prof. G.S. Dangayach is cited in the list of TOP 20 prolific researchers of the world in the area of Operations Strategy in the recent publication of IJOPM
- Prof. G.S. Dangayach is Nominated as Member of Board of Management (BOM) of Rajasthan Technical University, Kota by Govt. of Rajasthan for three years since 2014
- Prof. G.S. Dangayach is Elected Chairman of The Institution of Engineers, Rajasthan State centre for the session 2014-2016
- Prof. G.S. Dangayach is Nominated as Member of Selection Committee of Rajasthan Technical University, Kota by Govt. of Rajasthan



- Prof. Jyotirmay Mathur is awarded felllowship of Indian Green Building Council, CII
- Dr. Amar Patnaik is appointed in DST for the Expert Advisory Committee meeting to be held on 1<sup>st</sup>
- Dr. Harlal Singh Mali was invited to chair a session in AIMTDR 2016 conference held at COE Pune in the session ADVANCED MACHINING TECHNOLOGY, on 18th DECEMBER 2016.
- Dr. Harlal Singh Mali was invited to for prestigious AU India 2016 held at Mumbai.

# DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

- a. Shree Amarnath Sharma VanprastitiSmriti "ShreshthShikshakSamman 2016", by SKB ShaikshikVikasSansthanJaipur.
- b. Paper entitled Bandgap Engineering in Nanocrystalline Silicon Powder by Mechanical Alloying, presented at Plenary session of Int. Conf. PM-17, Feb 20-22, 2017, New Delhi was awarded the Prof. G.S. Tendolkar award- the best paper award for innovative basic research work.

# **DEPARTMENT OF PHYSICS**

- 1. Early career research (ECR) award BY SERB-DST New Delhi to Dr. Kamlendra Awasthi.
- 2. Early Career Research Award to Dr. Manoj Kumar from Science and Engineering Research Board, New Delhi, India, March 2017.
- 3. Dr. Kavita Lalwani's research project is selected under EMR SERB Scheme entiled" Understanding of the Quantum Chromo Dynamics (QCD) at low momentum transfer through a rare decay of light meson with experimental facility WASA-at-COSY".
- 4. MNIT Jaipur has become an official member of two International Experiments Belle-I and Belle-II at KEK (High Energy Accelerator Research Organization), Taskuba, Japan on June 2016. The membership is taken by Dr. Kavita Lalwani, faculty member in the Department.

# 11.8 PUBLICATIONS AND RESEARCH PAPERS IN CONFERENCES ETC.

## **DEPARTMENT OF ARCHITECTURE & PLANNING**

## **Research Papers Published in International Journals:**

- 1. Aman Randhawa, Tarush Chandra; Revitalization of Dravayawati River, Jaipur, India: A water-front development project, Journal of Geography and Regional Planning, 2070-1845, pp 28-38, March, 2017
- 2. Tarush Chandra, BibhuKalyanNayak, ArjunGosain; A Comparitive Overview of the Existing Building Rating Systems, International Journal of Emerging Technologies, 09758364, (print) & (on-line) 22493255, pp 702-706, Jan. 2017.
- 3. Ankit Kashmiri Gupta, Tarush Chandra, Nand Kumar; Accessing the Needs and Planning Provisions for Industrial Areas in India: Jaipur, International Journal of Emerging Technologies 09758364, (print) & (on-line) 22493255, pp 470-474, Jan. 2017.
- 4. Gaurav Chandra, N. R. Mandal, Manjari Chakraborty, A. K. Sinha, Tarush Chandra; The Water Sustainability Index (WSIOC) for Office Complexes (Part 1): A Preliminary Framework, International Journal of Emerging Technologies, 0975-8364, (print) & (on-





line) 2249-3255, pp 330-336, Jan. 2017.

- Kumar, N., 2016, "A Household based Analysis of domestic energy consumption for lighting in Jaipur city", International Journal of Built Environment and Sustainability, IJBES 3(2), Pp 126-133 (Co-Author: Dr. V. Devadas)
- 6. Kumar A., Pushplata (2017), Problems and Prospects of Building Regulations in Shimla, India- A Step Towards Achieving Sustainable Development, Accepted for publication International Journal of Sustainable Built Environment [http://dx.doi.org/10.1016/j.ijsbe.2017.03.009]
- 7. Kumar A., (2017), Building Regulations related to Energy and Water in Indian Hill Towns, Accepted for publication Journal of Sustainable Development of Energy, Water and Environment Systems [http://dx.doi.org/10.13044/j.sdewes.d5.0161]
- 8. Garg N., Kumar A., Pipralia S., (2016) A Conceptual Framework For Sustainability Indicators In Retrofitting Existing Housing, International Journal of Architecture, Engineering and Construction, Vol 5 issue 3 pp148-160 (DOI: 10.7492/IJAEC.2016.015)
- 9. Jawaid F., Pipralia S., Kumar A., (2016), Exploring the Imageability of Walled City Jaipur, 4 Journal of Engineering Technology (JET) Vol 4 Issue 1 pp 46-52 (ISSN: 2251-3701), (doi: 10.5176/2251-3701\_4.1.171)
- 10. Kumar A., (2016), Impact of Building Regulations on Indian Hill Towns, HBRC Journal, 1Vol. 2 issue 3 pp 316-326 (http://dx.doi.org/10.1016/j.hbrcj.2015.02.002).
- 11. Gupta, N., Devadas, V., 2016. An Insight into the Economic Growth Pattern and Attractiveness of the Lucknow District, ISSN NO: 2348-537X International Journal of Multidisciplinary Approach & Studies: Jul/Aug2016, Vol. 3 Issue 4, p54-63
- 12. Prasad, R, Gupta, N., 2016. Problems and Prospects of Slums in India, ISSN NO: 2348-537X International Journal of Multidisciplinary Approach and Studies: Volume 03, No.3
- 13. Kumawat K., Nigam P. (2017), "Decentralized Wastewater Management System with 3R's Theory", International Journal on Emerging Technologies, ISSN No. (Print): 0975-8364, ISSN No. (Online): 2249-3255.

## **Research Papers Published in National Journals:**

List of Papers Presented at International Conferences:

- 1. Tarush Chandra, Municipal Solid waste Management: A Paradigm to Smart Cities, in Seta, F., Sen, J., Biswas, A., Khare, A, Ed. From Poverty, Inequality to Smart City, .,pub. by Springer Singapore, ISBN 978-981-10-2141-1, pp 3-18, 2017.
- 2. Bhavna Tripathi, Luc Boehme, Tarush Chandra and Sandeep Chaudhary, "Research, Education and Ttraining As Part of An Action-plan to Start up a Recycling Policy in Jaipur, India", proc. of International Conference on 'Central Europe towards Sustainable Building 2016' (CESB16), at Prague, Czech Republic, 24-24 June 2016.
- 3. Kumar A, (2017), Building Regulations for Safety from Disasters in Indian Hill Towns: Problems and Prospects, International Conference on Theory of Architectural Design: Global Practices amid Local Milieu, 14<sup>th</sup> -16<sup>th</sup> April 2017 SMVDU Katra, McGraw Hill Education (India) P. Ltd. (ISBN no. 978-93-5260-628-3) pages: 148-158



- 4. Sharma M., Kumar N., Kumar A, (2017), Need for Disaster Risk Resilience: A Case of India, International Conference on Theory of Architectural Design: Global Practices amid Local milieu, 14<sup>th</sup> -16<sup>th</sup> April 2017 SMVDU Katra, McGraw Hill Education (India) P. Ltd. (ISBN no. 978-93-5260-628-3) pages: 290-293
- Randhawa A., Kumar A, (2017), Exploring Livability as a Dimension of Smart City Mission (India), International Conference on Theory of Architectural Design: Global Practices amid Local milieu, 14<sup>th</sup> -16<sup>th</sup> April 2017 SMVDU Katra, McGraw Hill Education (India) P. Ltd. (ISBN no. 978-93-5260-628-3) pages: 355-361
- 6. Garg N., Kumar A., Pipralia, S., Kumar P., (2017) Retrofitting Neighbourhoods for sustainable urbanism, International conference on sustainable built environment, 3<sup>rd</sup> 5<sup>th</sup> Fberuary 2017, IIT Roorkee
- Pipralia S., Kumar A., Jawaid F., (2016), Exploring the Imageability of Urban Form in Walled City Jaipur, 4th Annual International conference on Architecture and civil engineering (ACE 2016) from 24-26 April 2016 Singapore (ISSN: 2301-394X), (doi: 10.5176/2301-394X\_ACE16.43)
- 8. Sharma K.V., Pipralia S., Kumar A., (2016), Modifying the Geometric and Operational Design of Truck Terminal in Ajmer city, Rajasthan, International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016), Jaipur National University 16-19 March 2016
- 9. Kumar, N., "Impact of urbanization on urban water bodies in Hyderabad city", JNT University, Hyderabad, 2016

List of Papers Presented at National Conferences

- 1. Kumawat K., Nigam P. (2017), "Decentralized Wastewater Management System with 3R's Theory Implementation: A Sensible Solution", National Conference on 'Urban Environmental Management in India: Problems and Prospects on 13th and 14th February 2017 by MNIT Jaipur.
- 2. Krishnani V., Nigam P. (2017), "Issues and Potentials in Relocating The Administrative Capital: A Case Study of Chattisgarh", Synergy in Planning, Architecture, Computers and Education, Maharaja Agrasen University, Solan.
- 3. Pillai S., Nigam P. (2017), "Does smart mean high tech: Redefining smart for the city, towards evolution of Indian smart urban topology?", Bharatiya Vigyan Sammelan, Fergusson College, Pune.

## FACULTY MEMBERS WHO COMPLETED PH. D. /M.TECH DURING THE YEAR 2016-17

- 1. Dr. Nand Kumar completed his Ph.D. Degree in the year 2016-17 from Indian Institute of Technology Roorkee
- 2. Dr. Pooja Nigam completed her Ph.D. Degree in the year 2016-17 from Indian Institute of Technology Roorkee





# **MEMBERSHIP OF PROFESSIONAL BODIES**

S. No.	Name of Faculty	Membership
1.	Prof. Alok Ranjan	Institute of Town Planners India
		Indian Institute of Architects
2	Prof. Rajeev Shringi	Institute of Town Planners India
		Indian Institute of Architects
3	Dr. Tarush Chandra	Institute of Town Planners India
		Indian Institute of Architects
4	Ms. Rina Surana	Indian Institute of Architects
		Indian Institute of Interior Design
5	Mr. Ramniwas Sharma	Institute of Town Planners India
		Indian Institute of Architects
		Indian Institute of Interior Design
6	Ms. Kalpana Pandit	Institute of Town Planners India
		Indian Institute of Architects
7	Ms. Meenu Varshney	Institute of Town Planners India
		Indian Institute of Architects
8	Dr. Satish Pipralia	Institute of Town Planners India
		Indian Institute of Architects
9	Dr. Nand Kumar	Indian Institute of Architects
		Indian Institute of InteriorDesign
10	Mr. Nischal Jain	Institute of Town Planners India
		Indian Institute of Architects
11	Dr. Ashwani Kumar	Institute of Town Planners India
		Indian Institute of Architects
12	Dr. Pooja Nigam	Institute of Town Planners India
		Indian Institute of Architects
		Indian Institute of Interior Design





# **CENTRE FOR DISASTER MITIGATION AND MANAGEMENT**

#### **Research Papers Published in International Journals:**

- (a) International Journals
- (a) M Bhandari, S.D. Bharti, M K Shrimali and T K Datta ,"The Numerical study of Base Isolated Building Under Near Filed and Far field Earthquakes", Journal of Earthquake Engineering Volume :02/11/2017 ISBN: 1559-808X
- (b) V Bhaiya, S.D. Bharti, M K Shrimali and T K Datta, "Effect of noises on the Active Optimal Control of Partially Observed Structures for White Random Ground Motion", Journal of Noise Control Engineering Volume: 64/789-799/2016 ISBN: 9781498726740
- (c) S.M. Dumne, M.K. Shrimali and **S.D. Bharti,** "Earthquake Performance of Hybrid Controls for Coupled Buildings with MR Dampers and Sliding Base Isolation System", Asian Journal of Civil Engineering (BHRC) VOL. 18, NO. 1(2017) Pages 63-97.
- (d) M. Abdeddaim, A. Ounis, N. Djedoui and M.K. Shrimali, "REDUCTION OF POUNDING BETWEEN BUILDINGS USING FUZZY CONTROLLER", Asian Journal of Civil Engineering (BHRC) 17/985-1005/2016 ISBN: ISBN.
- (e) S. M. Dumne and M. K. Shrimali, "Seismic Behavior of RC Building Isolated by R-FBI System", International Journal of Engineering Research 5/607-611/2016 ISBN: pp. 2347-5013.
- (f) M. Abdeddaim, A. Ounis, N. Djedoui, M. K. Shrimali,"Pounding hazard mitigation between adjacent planar buildings using coupling strategy", Journal of Civil Structural Health Monitoring 10.1007/1-15/2016 ISBN: 2190-5452.

#### **Research Papers Published in National Journals:**

#### List of Papers Presented at International Conferences:

#### **Research Publications**

- (a) International Conference
- 1. M Abdeddaim, A Ounis, **SD Bharti** and M K Shrimali ,"Seismic Retrofitting Using the Concept of Coupling Two Adjacent Building" 10th Structural Engineering Convention by SERC CSIR Chennai at Chennai/1454-1458/2016
- 2. Vishisht Bhaiya, **SD Bharti,** M K Shrimali and TK Datta ,"Performance of Semi Actively Controlled Building Frame Using MR Damper for Near Field Earthquakes" 10th Structural Engineering Convention by SERC CSIR Chennai at Chennai / 1384-1388 / 2016
- 3. S Narayan, M K Shrimali, **SD Bharti** and TK Datta ,"Seismic Behaviour of Damaged Building Under Second Episode of Earthquake" 10th Structural Engineering Convention by SERC CSIR Chennai at Chennai/1164-1169/2016
- 4. AA Kasar, **SD Bharti**, M K Shrimali and R Goswami ,"Effect of Column to Beam Strength Ratio on Behaviour of Beam to Column Moment Joints" 10th Structural Engineering Convention by SERC CSIR Chennai at SERC Chennai/340-345/2016.
- 5. Arnav Anuj Kasar, **S. D. Bharti,** M. K. Shrimali and Rupen Goswami, "Provisions for Design of Doubler Plates for Beam Hinging in Steel MRFs", 2016 EMI (Engineering





Mechanics Institute) International Conference – Metz, France, Proceedings of 2016 EMI International Conference, 2016.

- 6. **S. M. Dumne , M. K. Shrimali**,"Seismic Behavior of RC Building Isolated by R-FBI System", National Conference on Advances in Structural Engineering by IJER at Maharashtra 27-February to 28-February, 2016 ISBN: ISSN:2319-6890.
- M Abdeddaim, A Ounis and M K Shrimali, "Seismic Retrofitting of a Weak Building at the Ground Floor Using MR Damper", Advances in Mechanics and Materials (ICRAMM 2016) by I K INTERNATIONAL PUBLISHING HOUSE NEW DELHI at VS Sai University of Technology, Burla, Odisha 17-December to 18-December, 2016 ISBN: 978-93-85909-56-6.
- 8. **M. Bhandari, S. D. Bharti, M. K. Shrimali**,"BEHAVIOR of BASE ISOLATED BUILDINGS SUBJECTED to NEAR FIELD EARTHQUAKES", Sixteen World Conference on Earthquake Engineering by IEA at Santigo (Chile) 07-January to 13-January, 2017 ISBN: WCEE.
- 9. **V. Bhaiya, S. D. Bharti , M. K. Shrimali**,"OBSERVATION BASED SEMI ACTIVE CONTROL of STRUCTURES USING MR DAMPERS", Sixteen World Conference on Earthquake Engineering by IEA at Santigo, Chile 07-January to 13-January, 2017 ISBN: WCEE.
- 10. **S. Narayan, M.K. Shrimali, S.D. Bharti, T.K. Datta**,"PROGRESSIVE COLLAPSE of DAMAGED STRUCTURES UNDER SEISMIC EXCITATION", S i x t e e n W o r l d Conference on Earthquake Engineering by IEA at Santigi, Chi;e 07-January to 13-January, 2017 ISBN: WCEE.
- 11. **M. Abdeddaim, A. Ounis , M. K. Shrimali** ,"POUNDING HAZARD REDUCTION USING A COUPLING STRATEGY for ADJACENT BUILDINGS", Sixteen World Conference on Earthquake Engineering by IEA at Santigo, Chile 07-January to 13-January, 2017 ISBN:

# List of Papers Presented at National Conferences

- 1. PV Ramana, Kunal Bisht, Nikhil Kumar Sharma,2016 "NOVEL TECHNIQUE FOR THE SOLUTION OF TRANSIENT ENERGY EQUATION IN ROCKS SUBJECTED TO LASER IRRADIATION" INDOROCK IIT Bombay, 15 - 17 June 2016.
- 2. Dr. P. V. Ramana, Nikhil Kumar Sharma, Rishabh Gupta, Niteesh Agrawal, Arun Singh, 2016 "A NOVEL TECHNIQUE FOR SOLVING THREE DIMENSIONAL PROBLEMS" ICCMS IIT Bombay, 27 June - 1 July 2016.
- 3. P. V. Ramana, Kunal Bisht, Dinesh Pathak, Niteesh Agrawal, Arun Kumar Singh, 2016 "MATHEMATICAL MODEL FOR REINFORCED CONCRETE PROBLEMS" ICCMS IIT Bombay, 27 June - 1 July 2016.
- 4. Dr. P. V. Ramana, Kunal Bisht, Dinesh Pathak, Rishabh Gupta, Nikhil Kumar Sharma, Arun Singh, 2016 "COMPUTATIONAL MECHANISM ON LARGE DEFORMABLE BODIES USING NOVEL TECHNIQUE" ICCMS IIT Bombay, 27 June - 1 July 2016.
- 5. P. V. Ramana, Kunal Bisht, Rishabh Gupta, Niteesh Agrawal, Arun Kumar Singh, 2016 "AN INNOVATIVE METHOD FOR SOLVING STRUCTURAL ENGINEERING PROBLEMS" ICCMS IIT Bombay, 27 June - 1 July 2016.



- 6. P. V. Ramana, Kunal Bisht, Dinesh Pathak, Rishabh Gupta, Shailesh Gupta, 2016 "MECHANICAL PROPERTIES OF CONCRETE EXPOSED TO BURNING" ICCMS IIT Bombay, 27 June - 1 July 2016.
- 7. Dr. P. V. Ramana, Manish Meena, Kunal Bisht, 2016 "THE WASTE MATERIALS AS PARTIAL REPLACEMENT OF FINE AGGREGATE IN CONCRETE" ICCMS IIT Bombay, 27 June - 1 July 2016.
- 8. Dr. P. V. Ramana, Shailesh Gupta, Niteesh Agrawal, Dinesh Pathak, 2016 "THE EQUALITY OF PARTIAL SOLUTIONS FOR NTH ORDER DIFFERENTIAL EQUATIONS USING NOVEL TECHNIQUE" ICCMS IIT Bombay, 27 June 1 July 2016.
- 9. Dr. P. V. Ramana, Shailesh Gupta, Kunal Bisht, Nikhil Kumar Sharma, 2016 "EVALUATION OF SEISMIC MULTI-STORY BUILDINGS" ICCMS IIT Bombay, 27 June - 1 July 2016.
- 10. Dr. P. V. Ramana, Nikhil Kumar Sharma, Rishabh Gupta, Niteesh Agrawal, Arun Singh, 2016 "AN INNOVATIVE TECHNIQUE FOR SOLVING THREE DIMENSIONAL PROBLEMS" SEC IIT Chennai, 22 December 23 December 2016.
- 11. P. V. Ramana, Kunal Bisht, Dinesh Pathak, Niteesh Agrawal, Arun Kumar Singh, 2016 "MATHEMATICAL MODEL FOR REINFORCED CONCRETE PROBLEMS" SEC IIT Chennai, 22 December - 23 December 2016.
- 12. P. V. Ramana, Kunal Bisht, Dinesh Pathak, Rishabh Gupta, Nikhil Kumar Sharma, Arun Singh, 2016 "COMPUTATIONAL MECHANISM ON LARGE DEFORMABLE BODIES USING INOVATIVE TECHNIQUE" SEC IIT Chennai, 22 December - 23 December 2016.
- 13. P. V. Ramana, Kunal Bisht, Rishabh Gupta, Niteesh Agrawal, Arun Kumar Singh, 2016 "A NOVEL TECHNIQUE FOR SOLVING STRUCTURAL ENGINEERING PROBLEMS" SEC IIT Chennai, 22 December - 23 December 2016.
- 14. P. V. Ramana, Kunal Bisht, Dinesh Pathak, Rishabh Gupta, Shailesh Gupta, 2016 "MECHANICAL PROPERTIES OF CONCRETE EXPOSED TO BURNING" SEC IIT Chennai, 22 December - 23 December 2016.
- 15. Dr. P. V. Ramana, Kunal Bisht, 2016 "THE WASTE MATERIALS AS PARTIAL REPLACEMENT OF FINE AGGREGATE IN CONCRETE" SEC IIT Chennai, 22 December 23 December 2016.
- 16. Dr. P. V. Ramana, Shailesh Gupta, Niteesh Agrawal, Dinesh Pathak, 2016 "THE EQUALITY OF PARTIAL SOLUTIONS FOR NTH ORDER DIFFERENTIAL EQUATIONS USING INNOVATIVE TECHNIQUE" SEC IIT Chennai, 22 December -23 December 2016.
- 17. Dr. P. V. Ramana, Shailesh Gupta, Kunal Bisht, Nikhil Kumar Sharma, 2016 "EVALUATION OF SEISMIC MULTI-STORY BUILDINGS" SEC IIT Chennai, 22 December - 23 December 2016.



# **MEMBERSHIP OF PROFESSIONAL BODIES**

S. No.	Name of Faculty	Membership
1.	Prof. M.K. Shrimali	Fellow of Institution of Engineers (I): F-121616-5

# **CENTRE FOR ENERGY & ENVIRONMENT**

## **Research Papers Published in International Journals:**

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- Sanjay Kumar, Jyotirmay Mathur, Sanjay Mathur, Manoj Kumar Singh, Vivian Loftness, An adaptive approach to define thermal comfort zones on psychrometric chart for naturally ventilated buildings in composite climate of India, Building and Environment, 109 (2016) 135-153
- 6. Anuj Mathur, Priyam, Sanjay Mathur, GD Agrawal, Jyotirmay Mathur, Comparative study of straight and spiral earth air tunnel heat exchanger system operated in cooling and heating modes, Renewable Energy 108 (2017) 474-487.
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- Kumar, S., Mathur, J., Mathur, S., Singh, M.K., & Loftness, V.(2016). An Adaptive Approach to define Thermal Comfort Zones on Psychrometric Chart for Naturally Ventilated Buildings in Composite Climate of India. Building and Environment, 108, 135-153
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- 20. S. Reddy, L. Panwar, R. Kumar, B. K. Panigrahi, "Modelling of Carbon Capture Technology Attributes for Unit Commitment in Emission Constrained Environment", *IEEE Trans on Power System*, Vol: 32, No: 1, 2017, 662–671.
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- 24. V. Kalkhambkar, R. Kumar, R. Bhakar, "Joint Optimal Allocation Methodology for Renewable Distributed Generation and Energy Storage for Economic Benefits", IET Renewable Energy Generation. (On Line)





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- 43. Vaiju Kalkhambkar, Rajesh Kumar, Rohit Bhakar *Joint optimal allocation methodology for renewable distributed generation and energy storage for economic benefits* Vol.10 pp 1422-1429 IET Renewable Power Generation 2016.

#### **Research Papers Published in National Journals:**

#### List of Papers Presented at International Conferences:

- 1. Kumar, Sanjay, Jyotirmay Mathur, Sanjay Mathur, "Adaptive Use of Environmental Controls for Thermal Comfort in Composite Climate of India"the 9th International Conference on IAQVEC Incheon Sondgo, Republic of Korea, October 23-26, 2016.
- 2. Kapil Pareek, Hansong Cheng. Ambient Temperature Hydrogen Storage for Fuel Cell Vehicle. ICFM 2016, IIT Kharagpur.
- 3. Monika Yadav and Vivekanand: Biopretreatment and BIogas production.National Conference on FUNGAL BIOLOGY: RECENT TRENDS AND FUTURE PROSPECTS. BISR Jaipur 16-18 Nov 2016
- 4. Linjordet R, Paruch L, Vivekanand V, Horn SJ, and Holo H (2016). Microbial population dynamics in AD reactors operating close to overloading. 24th European Biomass Conference and Exhibition. Amsterdam, The Netherlands, Jun 6th-9th.
- 5. Srivastava, P., Khan, Y., Mathur, J., & Bhandari, M. (2017). Analysis of Radiant Cooling System Integrated with Cooling Tower for Composite Climatic Conditions. 15th International Building Performance Simulation Association (BS2017), August 7-9, 2017. San Francisco, USA. (Accepted)
- Bhandari, M., Mathur, J., Jain, R., Khan, Y., & Srivastava, P. (2016). Analysis of Different Configuration of Radiant Cooling System Integrated with Cooling Tower for Different Indian Climatic Zones. ASHRAE Summer Conference, June 25 - June 29, 2016. St. Louis, MO, USA
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- 8. Kumar, S., Mathur, J., & Mathur, S., Adaptive Use of Environmental Controls for Thermal Comfort in Composite Climate of India" the 9th International Conference on IAQVEC, October 23-26, 2016. Incheon Sondgo, Republic of Korea.





- 9. Vaiju Kalkhambkar, Rajesh Kumar, Rohit Bhakar, "Joint Optimal Sizing and Placement of Renewable Distributed Generation and Energy Storage for Energy Loss Minimization," International Conference on Advanced Computing and Communication Systems - ICACCS 2017, Sri Eshwar College of Engineering, Velandipalayam, 6-7 January, 2017.
- Vaiju Kalkhambkar, Rajesh Kumar, Rohit Bhakar, "Methodology for Joint Allocation of Energy Storage and Renewable Distributed Generation," IEEE International Conference on Recent Advances & Innovations in Engineering, ICRAIE-2016, 23-25 December, 2016, Jaipur.
- 11. Pooja Sharma, Urmila Brighu, Parul Mathuria, Rohit Bhakar, "Risk constrained short term electricity procurement for open access consumer in India", IEEE PES General Meeting, July 17-21, 2016, Boston, USA.

# List of Papers Presented at National Conferences

- 1. Effects of window configuration and air ventilation strategy on energy generation of window integrated semi-transparent SPV module, Sankar Barman, Amartya Chowdhury, Sanjay Mathur, Jyotirmay Mathur, SOLARIS 2017, BHU, Varanasi, 07 09 February 2017.
- 2. F. Teotia, R. Bhakar, Local Energy Markets: Concept, Design and Operation, NPSC-2016, IIT Bhubneshwar, 19-21 December, 2016.

## Monographs published

S. No.	Title	Author	Publisher
1.	Indian Weather Data 2017	Jyotirmay Mathur, Vishal Garg, Vikram Murthy	ISHRAE

## FACULTY MEMBERS WHO COMPLETED PH. D. /M.TECH DURING THE YEAR 2016-17

## MEMBERSHIP OF PROFESSIONAL BODIES

S. No.	Name of Faculty	Membership
1.	Dr Kapil Pareek	ISTE
2.	Dr Kapil Pareek	SAE
3.	Dr Kapil Pareek	SESI





## **DEPARTMENT OF CIVIL ENGINEERING**

Research Papers Published in International Journals:

- 1. Rana, Aditya, Pawan Kalla, and Laszlo J. Csetenyi. "Recycling of dimension limestone industry waste in concrete." International Journal of Mining, Reclamation and Environment (2016): 1-20.
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- 3. Agarwal, Saakshy, Yadav, Shashi, Sharma, Ashwini, Singh, Kailash and Gupta, Akhilendra Bhushan. (2016), "Kinetic And Equilibrium Studies of Decolorization of Effluent of Handmade Paper Industry By Low Cost Fly Ash" published in Desalination and Water Treatment.DOI:10.1080/19443994.2016.1157764.
- 4. S.B Patil, A.K. Vyas, A.B. Gupta, Rashmi S. Patil (2016). "Imperial smelting furnace slag as fine aggregate in cement concrete mixes, The journal of Solid waste technology and management", 42(2), 128-136.
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- 6. Chandvani, Vinay, Gupta, Naveen Kumar, Nagar, Ravindra, Agarwal, Vinay, Jethoo, Ajay Singh (2016). "Artificial Neural Networks Aided Conceptual Stage Design of Water Harvesting Structures", Perspectives in Science, Elsevier (2016) 8, 151–155.
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- 8. S.D. Kore and A.K. Vyas ,"Durability of Concrete using Marble Mining Waste", Journal of Building Materials and Structures 3/55-67/2016.
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- 11. Sharma, N., Swami, B. L. and Sharma, D. (2016), "Evaluation of Resilient Characteristics of Stone Matrix Asphalt (SMA)"International Journal of Advances in Sciences, Engineering and Technology (IJASEAT), IRJ Journals, Vol. 4, (3) pp. 136-139.
- 12. Vyas, Sunil Kumar., Sharma, Gunwant, Mathur, Yogesh Prakash and Chandwani, Vinay. (2015) 'Interlinking Feasibility of Five River Basins of Rajasthan in India' ELSEVIER, Perspectives in Science 2016, Volume 8C, pp. 83-86.
- 13. Saxena, A., Jat, M. K. and Choudhary, M., (2016). "Analysis of Urban Growth using Geospatial Techniques", International Journal of Earth Sciences and Engineering, Vol. 9, No. 6, 01-01.
- 14. Ankita Saxena, Mahesh K. Jat and Mahender Choudhary (2016), "Analysis of Urban Growth using Geospatial Techniques" International Journal of Earth Sciences and Engineering, ISSN 0974-5904, Volume 09, No. 06, December 2016, pp 01-10 (Scopus Listed).





- 15. Santosh Pingale, Deepak Khare, Mahesh K. Jat, and Jan Adamowski (2016), "Trend analysis of climatic variables in an arid and semi-arid region of Ajmer District, Rajasthan, India", Journal of Water and Land Development, No. 28, I-III, 3 18. ISSN 1429-7426.
- 16. M. Abdeddaim, A. Ounis, N. Djedoui, M. K. Shrimali ,"Pounding hazard mitigation between adjacentplanar buildings using coupling strategy", Journal of Civil Structural Health Monitoring 6/603-617/2016 ISBN: 2190-5452
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- 52. Anuj Mathur, Ankit Surana, Sanjay Mathur, "Numerical investigation of the performance and soil temperature recovery of an EATHE system under intermittent operations", Renewable Energy, 95(2016), 510-521
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- 61. Priya Mundada, Dr.Urmila Brighu,"Remediation of textile effluent using siliceous materials: A review with a proposed alternative", International Journal of Innovative and Emerging Research in Engineering, Vol 3, Number 1, 2016, ISSN No. 2394-3343.
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- 63. Tambi, A., Brighu, U. and Gupta, A.B., 2016. "A sensitive presence/absence test kit for detection of coliforms in drinking water". Water Science and Technology: Water Supply, 16(5), pp.1320-1326.
- 64. Chandvani, Vinay, Gupta, Naveen Kumar, Nagar, Ravindra, Agarwal, Vinay, Jethoo, Ajay Singh (2016). "Artificial Neural Networks Aided Conceptual Stage Design of Water Harvesting Structures", Perspectives in Science, Elsevier (2016) 8, 151–155.
- 65. Navin P.K. and Mathur Y.P., (2016). "Layout and Component Size Optimization of Sewer Network using Spanning tree and Modified PSO Algorithm". Water Resources Management, 30 (10), 3627–3643.
- 66. Dhotre, ST, Sharma, G., Goyal, R. and Parikh, SK (2017), "Irrigation Scheduling: A-Review," Int. J. of Emerging Tech. and Adv. Engg. (Accepted)
- 67. M Bhandari, SD Bharti, M K Shrimali and T K Datta ,"The Numerical study of Base Isolated Building Under Near Filed and Far field Earthquakes", Journal of Earthquake Engineering 02/11/2017 ISBN:1559-808X
- 68. Kaul,Nivedita Gupta, Akhilendra Bhushan, Khandelwal, Sumit. "Assessing the Impact of Indoor Air Quality on Respiratory Health- Some Prescriptions". Published in Journal of Energy and Environmental Sustainability, 2 (2017) 75-77
- 69. Khandelwal, Sumit, Goyal, Rohit, Kaul, Nivedita, Mathew, Aneesh. "Assessment of land surface temperature variation due to change in elevation of area surrounding Jaipur, India".
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- Kumar, S.; Gupta, R.C.; Shrivastava, S., "Effective utilisation of quartz sandstone mining wastes: A technical note on its thermal resistance". Journal of Cleaner Production Volume: 140 Pages: 1129-1135 Published: 2017
- 71. Siddique, S.; Shrivastava, S.; Chaudhary, S., "Influence of ceramic waste on the fresh properties and compressive strength of concrete". European Journal of Environmental and Civil Engineering Pages: 1-14 Published: 2017.
- 72. Kumar, S.; Gupta, R.C.; Shrivastava, S., Long term studies on the utilisation of quartz sandstone wastes in cement concrete. Journal of Cleaner Production Volume: 143 Pages: 634-642 Published: 2017.
- 73. S.M. Dumne, M.K. Shrimali and S.D. Bharti, "Earthquake Performance of Hybrid Controls for Coupled Buildings with MR Dampers and Sliding Base Isolation System", Asian Journal of Civil Engineering (BHRC) VOL. 18, NO. 1(2017) Pages 63-97.
- 74. Yadav, J. S., & Tiwari, S. K. (2017). "A study on the potential utilization of crumb rubber in cement treated soft clay". Journal of Building Engineering. Volume 9, January 2017, Pages 177–191
- 75. Yadav, J. S., & Tiwari, S. K. (2017). "Effect of inclusion of crumb rubber on the unconfined compressive strength and wet-dry durability of cement stabilized clayey soil". Journal of Building Materials and Structures, 3(2), 68-84.
- 76. Chauhan Shivam, Kaul Nivedita, Mathew, Aneesh, Khandelwal, Sumit. "Variations of Surface Temperatures of Ahmedabad City and Its Relationship with Vegetation Abundance". Paper presented fornational Conference on Advances in Civil Engineering (NCACE-2016), Poornima University Jaipur, Rajasthan, 01-02 April 2016. Paper published in International Journal of Engineering Research & Technology (IJERT) Volume 4, Issue 23, NCACE-2016 Conference Proceedings

## List of Papers Presented at International Conferences:

- 1. SaakshyAgarwal, Kailash Singh, A.B. Gupta & A. K. Sharma (2016), Wastewater treatment of handmade paper industry using fly ash as low cost adsorbent, India International Science festival 2016, CSIR-NPL, Delhi, December 7-11, 2016. The paper received young scientist award for Saakshi, who presented the paper. An abstract was published in the proceedings
- 2. Gupta, Naveen Kumar, Jethoo, Ajay Singh, and Gupta, Sushindra Kumar (2016). "Temporal Variation of Inflow to the Dams of Rajasthan State", Hydro-2016 International, CWPRS, Pune, India, 08-10 December 2016, 21st International Conference on Hydraulics, Water Resources and Coastal Engineering
- 3. S.D. Kore, A.K. Vyas ,"Packing Density Approach for Production of Cost Effective and Durable Concrete", International Conference on Advances in Concrete Technology Materials & Construction Practices (CTMC-2016) by Goa Engineering College at GOA, June 21-24, 2016.
- S.D. Kore, A.K. Vyas ,"Influence of Particle Packing Density Approach on Strength and Durability Properties of Concrete Containing Marble Waste", International Conference on Trends and Recent Advances in Civil Engineering – TRACE 2016 by Amity University at Noida, Uttar Pradesh, August 11-12, 2016



- 5. Srivastava, R., Kushwaha, P., and Swami, B. L. (2016), "Suitability of Nano-Chemical Stabilizer in Black Cotton Soil", in Proc. International Conference on Advances in Civil, Structural and Constructural Engineering–2016, Rome, Italy, IRED.
- Vyas, Sunil Kumar., Sharma, Gunwant., Mathur, YogeshPrakash and Chandwani, Vinay. (2014) 'Rainfall Runoff Modelling: Conventional Regression and artificial Neural Networks approach', accepted for 2nd IEEE International Conference on Recent Advances and Innovations in Engineering and Science (ICRAIE-2016), 23-25 December, Jaipur.
- Mahesh Kumar Jat and Shuchi Mala. "Application of GIS and Statistical Modelling for Dengue Fever Surveillance in Delhi, India", 4th International Conference on Advances in Civil, Structural and Environmental Engineering - ACSEE 2016, 15-16, December 2016, Rome, Italy, pp. 26-30.DOI: 10.15224/978-1-63248-114-6-17
- M Abdeddaim, A Ounis and M K Shrimali, "Seismic Retrofitting of a Weak Building at the Ground Floor Using MR Damper", Advances in Mechanics and Materials (ICRAMM 2016) by I K International publishing House New Delhi at VS Sai University of Technology, Burla, Odisha 17-December to 18-December, 2016 ISBN: 978-93-85909-56-6
- 9. Dr. P. V. Ramana, Nikhil Kumar Sharma, Rishabh Gupta, Niteesh Agrawal, Arun Singh, 2016 "A Novel Technique For Solving Three Dimensional Problems" ICCMS IIT Bombay, 27 June 1 July 2016.
- P. V. Ramana, Kunal Bisht, Dinesh Pathak, Niteesh Agrawal, Arun Kumar Singh, 2016 "Mathematical Model For Reinforced Concrete Problems" ICCMS IIT Bombay, 27 June - 1 July 2016.
- 11. Dr. P. V. Ramana, Kunal Bisht, Dinesh Pathak, Rishabh Gupta, Nikhil Kumar Sharma, Arun Singh, 2016 "Computational Mechanism on Large Deformable Bodies Using Novel Technique" ICCMS IIT Bombay, 27 June 1 July 2016.
- P. V. Ramana, Kunal Bisht, Dinesh Pathak, Rishabh Gupta, Shailesh Gupta, 2016 "Mechanical Properties of Concrete Exposed To Burning" ICCMS IIT Bombay, 27 June - 1 July 2016.
- 13. Dr. P. V. Ramana, Manish Meena, Kunal Bisht, 2016 "The Waste Materials As Partial Replacement Of Fine Aggregate In Concrete" ICCMS IIT Bombay, 27 June 1 July 2016.
- Dr. P. V. Ramana, Shailesh Gupta, Niteesh Agrawal, Dinesh Pathak, 2016 "The Equality of Partial Solutions For Nth Order Differential Equations Using Novel Technique" ICCMS IIT Bombay, 27 June - 1 July 2016
- 15. Dr. P. V. Ramana, Shailesh Gupta, Kunal Bisht, Nikhil Kumar Sharma, 2016 "Evaluation of Seismic Multi-Story Buildings" ICCMS IIT Bombay, 27 June 1 July 2016.
- 16. Dadhich A.P., Goyal R., Dadhich P.N. (2016) "Urban sprawl pattern assessment using spatial metrics". Hydro 2016, 21st International Conference on Hydraulics, Water Resources and Coastal Engineering, CWPRS, Pune, Dec. 8-10.
- 17. Munoth, P., Goyal, R. and Garg, A. (2016). "Estimation of Soil Moisture and Its Application to Irrigation Water Allocation : A Review". 21st International Conference on Hydraulics, Water resources & Environmental Engineering. CWPR, Pune, Dec. 8-10.
- 18. Garg, A., Munoth, P. and Goyal, R. (2016). "Application of Soil Moisture Sensors in Agriculture: A Review". 21st International Conference on Hydraulics, Water Resources & Environmental Engineering. CWPR, Pune, Dec. 8-10.





- 19. Goyal, R., Tiwari, K. and Munoth, P. (2016). "Estimation of Crop Coefficients using Remote Sensing and GIS: A Case Study of Khuskera-BhiwariNeemrana Investment Region, Rajasthan, India". 8th Int. Conf. on Environmental Science and Technology 2016, The American Academy of Science, Houston, Texas, USA, June 6-10.
- 20. Singh, B. N., Grover, N., Maiti, D. K., Sahoo, R. (2016), Influence of Stiffness Characteristics on Supersonic Flutter Behaviour of Laminated Composite Plates, Asian Joint Symposium on Aerospace Engineering, Jeju Island, Korea, May 18-21.
- 21. Kumar, P., Gupta, R., and Chaudhary, S. (2016). "Behaviour of adhesive bonded and mechanically connected steel concrete composite under impact loading." The 11th International Symposium on Plasticity and Impact Mechanics, December 11-14, New Delhi, India (Accepted for Publication in Procedia Engineering).
- 22. Banu, S., Choudhary, S., and Chaudhary, S. (2016). "Strength and carbonation study on fly ash based geopolymer mortar." Proc.,7th International Conference of Asian Concrete Federation on Sustainable Concrete for now and the future, October 30-November 02, Hanoi, Vietnam.
- 23. Banu, S.,Dave, U., and Chaudhary, S. (2016). "Effect of different type of curing on fly ash and slag based geo polymer concrete." Proc., International Conference on Recent Innovations in Engineering and Technology, November 05-06, Gunupur, India.
- 24. Banu, S., and Chaudhary, S. (2016). "Effect of elevated temperatures on rubberized geo polymer mortar." Proc., International Conference on Recent Innovations in Engineering and Technology, November 05-06, Gunupur, India.
- 25. Banu, S.,Dave, U., and Chaudhary, S. (2016). "Effect of different parameters on the compressive strength of rubberized geopolymer concrete." Multi-disciplinary Sustainable Engineering: Current and Future Trends:Proc.,5thNirma University International Conference on Engineering, November 26-28, Ahmedabad, India, CRC Press, 77-86.
- 26. Kumar, Sanjay, JyotirmayMathur, Sanjay Mathur, "Adaptive Use of Environmental Controls for Thermal Comfort in Composite Climate of India"the 9th International Conference on IAQVEC, Incheon Sondgo, Republic of Korea, October 23-26, 2016
- 27. S. D. Bharti, M. K. Shrimali, ArnavAnujKasar, T. K. Datta, "Design of Test Setup for Prototype Testing of Base Isolators" 7th International Conference on Experimental Vibration Analysis for Civil Engineering Structures, Accepted, 2017
- ArnavAnujKasar, S. D. Bharti, M. K. Shrimali and RupenGoswami, "Provisions for Design of Doubler Plates for Beam Hinging in Steel MRFs", 2016 EMI (Engineering Mechanics Institute) International Conference – Metz, France, Proceedings of 2016 EMI International Conference, 2016.
- 29. Mathew, Aneesh.,KhandelwalSumit., Kaul, Nivedita., "Assessment of Land Surface Temperature Relationship with Vegetation, Water and Built-up Parameters of Chandigarh City in India". Paper presented in 21th International Conference on Hydraulics, Water Resources and Environmental Engineering (ISH-Hydro 2016 International), CPWRDM Pune, Maharashtra, 8-10th December 2016.

## List of Papers Presented at National Conferences

1. Jat, Mahesh K., Saxena, Ankita and Joshi, Kushum, (2016), "Land use/land cover Change Detection: A new paradigm for Natural Resource Monitoring", Proceedings of National



Conference "Civil Engineering Conference: Innovation for Sustainability", held at Department of Civil Engineering, National Institute of Technology Hamirpur during September 09–10, 2016.

- 2. M Abdeddaim, A Ounis, SD bHarti and M K Shrimali ,"Seismic Retrofitting Using the Concept of Coupling Two Adjacent Building", 10th Structural Engineering Convention by SERC CSIR Chennai at Chennai 21 to 23 December, 2016 ISBN: SERC
- 3. M Bhandari, SD Bharti, M K Shrimali and TK Datta ,"Performance of Base Isolated Building for Extreme Earthquakes", 10th Structural Engineering Convention by SERC CSIR Chennai at Chennai 21 to 23 December, 2016 ISBN: SERC
- 4. Vishisht Bhaiya, SD Bharti, M K Shrimali and TK Datta ,"Performance of Semi Actively Controlled Building Frame Using MR Damper for Near Field Earthquakes", 10th Structural Engineering Convention by SERC CSIR Chennai at Chennai 21 to 23 December, 2016 ISBN: SERC
- 5. Mathew, Aneesh, Khandelwal, Sumit, Chauhan Shivam, Kaul Nivedita. "Variations of Surface Temperatures of Ahmedabad City and Its Relationship with Vegetation Abundance". Paper presented for national Conference on Advances in Civil Engineering (NCACE-2016), Poornima University Jaipur, Rajasthan, 01-02th April 2016. Paper published in International Journal of Engineering Research & Technology (IJERT) Volume 4, Issue 23, NCACE-2016 Conference Proceedings.
- 6. PV Ramana, Kunal Bisht, Nikhil Kumar Sharma, 2016 "Novel Technique For The Solution Of Transient Energy Equation In Rocks Subjected To Laser Irradiation" INDOROCK IIT Bombay, 15 - 17 June 2016.
- Dr. P. V. Ramana, Nikhil Kumar Sharma, Rishabh Gupta, Niteesh Agrawal, Arun Singh, 2016 "An Innovative Technique For Solving Three Dimensional Problems" SEC IIT Chennai, 22 to 23 December 2016.
- 8. P. V. Ramana, Kunal Bisht, Dinesh Pathak, Niteesh Agrawal, Arun Kumar Singh, 2016 "Mathematical Model For Reinforced Concrete Problems" SEC IIT Chennai, 22 to 23 December 2016.
- 9. Dr. P. V. Ramana, Kunal Bisht, Dinesh Pathak, Rishabh Gupta, Nikhil Kumar Sharma, Arun Singh, 2016 "Computational Mechanism On Large Deformable Bodies Using Inovative Technique" SEC IIT Chennai, 22 December 23 December 2016.
- P. V. Ramana, Kunal Bisht, Rishabh Gupta, Niteesh Agrawal, Arun Kumar Singh, 2016 "An Novel Technique For Solving Structural Engineering Problems" SEC IIT Chennai, 22 December - 23 December 2016.
- P. V. Ramana, Kunal Bisht, Dinesh Pathak, Rishabh Gupta, Shailesh Gupta, 2016 "Mechanical Properties Of Concrete Exposed To Burning" SEC IIT Chennai, 22 to 23 December, 2016.
- 12. Dr. P. V. Ramana, Manish Meena, Kunal Bisht, 2016 "The Waste Materials As Partial Replacement Of Fine Aggregate In Concrete" SEC IIT Chennai, 22 to 23 December 2016.
- 13. Dr. P. V. Ramana, Shailesh Gupta, Niteesh Agrawal, Dinesh Pathak, 2016 "The Equality Of Partial Solutions For Nth Order Differential Equations Using Innovative Technique" Sec IIT Chennai, 22 to 23 December 2016.



- **MNIT JAIPUR**
- 14. Dr. P. V. Ramana, Shailesh Gupta, Kunal Bisht, Nikhil Kumar Sharma, 2016 "Evaluation Of Seismic Multi-Story Buildings" Sec IIT Chennai, 22 to 23 December 2016.
- 15. P. Mehra, B. S. Thomas, R. Kumar, R. C. Gupta, "Comparative Study on Different Properties of Jarosite Added Concrete", Paper presented and published in proceeding of UKIERI Concrete Congress "Advances in Concrete Technology Materials and Construction practices", (22 June 2016) Goa Engineering College, India, pp 82-83, ISBN: 978-93-85777-73-8
- 16. Sanjeev Kumar, Ramesh Chandra Gupta, Sandeep Shrivastava, "Sandstone aggregates in cement concrete", Paper presented and published in proceeding of UKIERI Concrete Congress "Advances in Concrete Technology Materials and Construction practices, (22 June 2016) Goa Engineering College, India, pp 192-197", ISBN: 978-93-85777-73-8.
- 17. Munoth, P., Goyal, R. and Tiwari, K. (2016). "Sensor Based Irrigation System: A Review". National Conference on Advances in Civil Engineering, Poornima University, Jaipur, Rajasthan. April 1-2, 2016, Conf. Proc., Int. J. of Engg. Res. & Tech., Vol. 4 (22), pp. 86-90.
- 18. Tripathi, B.,Boehme, L., Chandra, T., and Chaudhary, S. (2016). "Research, education and training as part of an action-plan to start up a recycling policy in Jaipur, India." Proc., Central Europe towards Sustainable Building 2016, June 22-24, Prague, Czech Republic, 1608-1615.
- M Abdeddaim, A Ounis, SD Bharti and M K Shrimali ,"Seismic Retrofitting Using the Concept of Coupling Two Adjacent Building" 10th Structural Engineering Convention by SERC CSIR Chennai at Chennai / 1454-1458/2016
- 20. Vishisht Bhaiya, SD Bharti, M K Shrimali and TK Datta ,"Performance of Semi Actively Controlled Building Frame Using MR Damper for Near Field Earthquakes" 10th Structural Engineering Convention by SERC CSIR Chennai at Chennai/1384-1388/2016
- 21. S Narayan, M K Shrimali, SD Bharti and TK Datta ,"Seismic Behaviour of Damaged Building Under Second Episode of Earthquake" 10th Structural Engineering Convention by SERC CSIR Chennai at Chennai / 1164-1169/2016
- 22. AA Kasar, SD Bharti,M K Shrimali and R Goswami ,"Effect of Column to Beam Strength Ratio on Behaviour of Beam to Column Moment Joints" 10th Structural Engineering Convention by SERC CSIR Chennai at SERC Chennai/340-345/2016.
- 23. J.S. Yadav & S.K. Tiwari, "Strength and Durability aspects of cement stabilized clayey soil containing waste crumb rubber" TRACE -2016 held at Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida from 11th-12th August 2016.
- 24. Kanika Saxena, Swati Singh, Urmila Brighu, 'Assessing the efficacy of locally available sand for the removal of COD, BOD, TKN, Nitrates, Phosphates and Ammonical Nitrogen from Greywater by Sand Filtration', National Conference on Advances in Civil Engineering, 2016, April 1-2, Jaipur.
- 25. Saxena, K., Brighu, U., Priya, "Textile Waste Water: Present challenges and low cost approaches for treatment", National Conference on Environmental Pollution: Consequences and Control on 7-8 October 2016.
- 26. Paper titled "Use of Kota Stone quarry and Cutting waste as Sub base material" under publication in Journal tilted "Interdisciplinary Environmental Review on Non-conventional Energy Technology", acceptance date 19-04-17, New and Renewable Energy Resources For Sustainable Future, SKIT Jaipur



- 27. H. S. Chouhan, A. N. Arora, P. Kalla, R. Nagar "Exploring marble slurry as an engineering material with specific reference to mortar and brick manufacturing", Proceedings of National Conference : Civil Engineering Conference Innovation for Sustainability (CEC 2016), 09h 10th September, 2016, NIT Hamirpur.
- Gautam, P. K., Kalla, P., Jethoo, A. S., & Harshwardhan, S. C. (2017). "Dimensional Stone Waste Characterization, Rajasthan". International Journal on Emerging Technologies, 8(1), 40–42
- 29. Mohit Sharma, Aditya Rana, Pawan Kalla. "Recycling Mining and Tailing Waste of Dimension Limestone (Kota stone) in Bituminous Roads", Next Generation Technologies for Mining and Fuel Industries-2017 (NxGnMiFu 2017), Vigyan Bhawan, Delhi, 15-17 February 2017





# MEMBERSHIP OF PROFESSIONAL BODIES

S. No.	Name of Faculty	Membership
1.	Gunwant Sharma	<ul> <li>Life Member of The Institution of Engineers, India (I.E.) since</li> <li>1990. Membership No.: M 58469/45</li> <li>Life Member of The Indian Society for Hydraulics (ISH) since</li> <li>1994. Membership No.: F-114, LM/94/114, Member Editorial</li> <li>Board, 2003-2005.</li> <li>Life Member of Indian Society for Technical Education (ISTE) since</li> <li>1990. Membership No.: LM 6823</li> <li>Life Member of Indian Society of Remote Sensing (ISRS) since</li> <li>1989. Membership No.: L 609,</li> <li>Life Member of Indian Water Resources Society (IWRS) since 1988.</li> <li>Membership No.: LM-88-1760</li> <li>Life Member of The Indian Association of Hydrologists (IAH) since</li> </ul>
		1990. Membership No.: LM-638
2	Prof. Ravindra Nagar	Indian Concrete Institute
3	Prof. Rohit Goyal	<ul> <li>Life member of Indian Society of Geomatics since 2007.</li> <li>Membership No.: ISG-L-985.</li> <li>Life Member of The Institution of Engineers, India (I.E.) since 1990.</li> <li>Membership No.: M 58057/5</li> <li>Fellow (2003)&amp; Life Member of The Indian Society for Hydraulics</li> <li>(ISH) since 1994. Membership No.: F-114, LM/94/114, Member</li> <li>Editorial Board, 2003-2005.</li> <li>Life Member of Indian Society for Technical Education (ISTE) since</li> <li>1990. Membership No.: LM 6823</li> <li>Life Member of Indian Society of Remote Sensing (ISRS) since</li> <li>1989. Membership No.: L 609, President Jaipur Local Chapter,</li> <li>2004, Vice President 2003.</li> <li>Life Member of Indian Water Resources Society (IWRS) since 1988.</li> <li>Membership No.: LM-88-1760</li> <li>Life Member of The Indian Association of Hydrologists (IAH) since</li> <li>1990. Membership No.: LM-638</li> <li>Life Member of Computer Society of India (CSI) since 1995.</li> <li>Membership No.: 00002450</li> </ul>
4	Pawan Kalla	Fellow of the Institution of Engineers (India)Life Member of the Indian Concrete Institute
		Life Member of the Indian Roads Congress



# ANY OTHER DETAILS WORTH PUBLICATION IN ANNUAL REPORT 2016-17

S. No.	Name of Faculty	Perticulars
1	Prof. Rohit Goyal	<ol> <li>Chaired a session in one day Workshop on "Sustainable Management of Ground Water Resources" Organized under Jal KrantiAbhiyaan by CGWB, Western Region, Jaipur at Panchayati Raj and Gramin Vikas Sansthan on 16<sup>th</sup> March 2017.</li> <li>Renovated Hydraulics lab and brought 9 new experiment setup to completely replace old, non-performing, outdated experiment setups.</li> </ol>

#### Patents filed by the department /faculty

S. No.	Patent brief detail	Status (filed/accepted)	Year
1.	Erosion wear resistant polymer composite laminate filled with granite powder waste	Application awaiting examination	1322/DEL/2015
2.	A method of recycling kota-stone waste as aggregate in bituminous mixes.	35/2016 Filed	26/08/2016

## **DEPARTMENT OF CHEMICAL ENGINEERING**

#### **Research Papers Published in International Journals:**

- 1. Renu, Madhu Agarwal, Kailash Singh, R. K. Dohare and S. Upadhyaya "Process control and optimization of wastewater treatment plants using simulation softwares: A review, International Journal of Advanced Technology and Engineering Exploration, 3(22)145-149, September 2016.
- 2. Renu, Madhu Agarwal, Kailash Singh" Heavy metal removal from wastewater using various adsorbents A Review" Journal of water reuse and desalination, DOI: 10.2166/wrd.2016.104.
- 3. J Gupta, M Agarwal, AK Dalai, "Optimization of biodiesel production from mixture of edible and nonedible vegetable oils", Biocatalysis and Agricultural Biotechnology 8, 112-120, 2016.
- 4. J Gupta, M Agarwal, Preparation and characterization of highly active solid base catalyst from snail shell for biodiesel production, Biofuels, 1-10, 2016.
- 5. Jharna Gupta, Madhu Agarwal, Rajeev Kumar Dohare, Sushant Upadhyaya, paper on "A Review on Process System Engineering for Biodiesel Refineries" published in International Journal of Advanced Technology and Engineering Exploration, Vol.4 (27), 2017.
- Agarwal, S., Sharma, A., Singh, K., Gupta, A.B., "Decolorization of direct red and direct blue dyes used in handmade paper making by ozonation treatment," Desalination and Water Treatment, 57(8) 3757-3765, 2016..
- 7. Saakshy, Singh, K., Gupta, A.B., Sharma, A.K., "Fly ash as low cost adsorbent for treatment



of effluent of handmade paper industry-Kinetic and modelling studies for direct black dye," Journal of Cleaner Production, 112(1), 1227-1240, 2016.

- 8. Agarwal, S., Yadav, S., Sharma, A., Singh, K., and Gupta, A.B., "Kinetic and equilibrium studies of decolorization of effluent of handmade paper industry by low cost fly ash," Desalination and Water Treatment, DOI: 10.1080/19443994.2016.1157764.
- A.S.Pundir, Kailash Singh and Rajeev K. Dohare, "Simulation of fixed bed catalytic reactor through adomian decomposition method and reduced differential transform method", International Journal of Advanced Technology and Engineering Exploration (IJATEE), 3(22)131-136, September 2016.
- 10. Sarma, Satirtha Kumar, Kailash Singh, and Rajeev Kumar Dohare. "Control of a reactive distillation column for methyl acetate system using Aspen Plus." *International Journal of Advanced Technology and Engineering Exploration* 4(26), pp 12-16, **2017**.
- 11. Kataria, G., Singh, K, Dohare, R.K., "ANN based soft sensor model for reactive distillation column", *International Journal of Advanced Technology and Engineering Exploration*, 3(24), pp 182-186, **2016**.
- 12. Sharma, M., Vyas, R.K., Singh, K., "Theoretical and experimental analysis of reactive adsorption in a packed bed: Parallel and branched pore diffusion model approach," Industrial & Engineering Chemistry Research, 55 (20), pp 5945–5954, 2016.
- 13. Komal Sharma, Ajay K. Dalai, Raj K. Vyas, "Removal of synthetic dyes from multicomponent industrial wastewaters," Published Online: 22-03-2017, DOI: https://doi.org/10.1515/revce-2016-0042
- Upadhyaya, S., Singh, K., Chaurasia, S.P., Dohare, R.K., Agarwal, M., "Recovery and development of correlations for heat and mass transfer in vacuum membrane distillation for desalination," Desalination and Water Treatment, published online on 17<sup>th</sup> June, 2016. DOI: 10.1080/19443994.2016.1189245.
- 15. Rakesh Baghel, Sushant Upadhyaya, Kailash Singh, S.P.Chaurasia, A.B.Gupta & Rajeev Kumar Dohare, (2017)," A review on membrane applications and transport mechanisms in vacuum membrane distillation." Reviews in Chemical Engineering, published online 22-03-2017.
- 16. Chaturvedi, Ekta, Nitesh Singh Rajput, Sushant Upadhyaya, and Pankaj K. Pandey ((2017)) "Experimental Study and Mathematical Modeling for Extrusion using High Density Polyethylene." Materials Today: Proceedings Elsevier 4, no. 2: 1670-1676. (SCOPUS)
- Dipaloy Datta, Özge Kerkez Kuyumcu, Sahika Sena Bayazit, and Mohamad Abdel Salam, Adsorptive Removal of Malachite Green and Rhodamine B Dyes on Fe3O4/Activated Carbon Composite, Journal of Dispersion Science and Technology (IF: 1.17), November, 2016.
- Dipaloy Datta, and Hasan Uslu, "Adsorptive Separation of Lead (Pb<sup>+2</sup>) from Aqueous Solution Using Tri-n-octylamine (TOA) Supported Montmorillonite", Journal of Chemical & Engineering Data (IF: 1.835), November, 2016.
- 19. Dipaloy Datta, Mustafa Esen Marti, Dharm Pal, and Sushil Kumar, "Equilibrium Study on the Extraction of Levulinic Acid from Aqueous Solution with Aliquat 336 Dissolved in Different Diluents: Solvent's Polarity Effect and Column Design", Journal of Chemical & Engineering Data (IF: 1.835), November, 2016.



- 20. Dipaloy Datta, Mustafa Esen Marti, Hasan Uslu, and Sushil Kumar, "Extraction of levulinic acid using tri-n-butyl phosphate and tri-n-octylamine in 1-octanol: Column design", Journal of the Taiwan Institute of Chemical Engineers (IF: 2.848), September, 2016, 66, pp. 407-413.
- 21. Hasan Uslu, Dipaloy Datta, and Hisham S. Bamufleh, "Reactive Extraction of Phenol from Aqueous Solution Using Trioctylmethylammoniumchloride (TOMAC) and Trioctylamine (TOA) in Nonane and Isoamy lalcohol", Water, Air, & Soil Pollution (IF: 1.554), May, 2016, 227, pp. 191-199.
- 22. Arghya Datta, Dipaloy Datta, and Avinash Chandra, "Separation and Recovery of Copper from Aqueous Solutions Using Tri-n-butylphosphate in Benzene", Journal of Molecular Liquids (IF: 2.515), May, 2016, 221, pp. 139-148.
- 23. Hasan Uslu, Dipaloy Datta, Dheiver Santos, Hisham S. Bamufleh, and Cuma Bayat, "Separation of Picric Acid from Aqueous Solution by Liquid-Liquid Extraction Method : Equilibrium, Kinetics, Thermodynamics and Molecular Dynamic Simulation", Chemical Engineering Journal (IF: 4.321), April, 2016, 299 (1), pp. 342-352.
- 24. Dipaloy Datta, and Hasan Uslu, "Adsorption of Levulinic Acid from Aqueous Solution by Amberlite XAD-4", Journal of Molecular Liquids (IF: 2.74), March 27, 2017, 234, pp. 330-334.
- 25. Hasan Uslu, Dipaloy Datta, and Hisham S. Bamufleh, "Solvent Polarity Effect when Amberlite-LA2 Is Used in the Extraction of Picric Acid", Journal of Chemical & Engineering Data (IF: 1.835), February 21, 62 (3), pp. 1125-1129.
- 26. Dipaloy Datta, Sanjana Sah, Nikita Rawat, and Rajat Kumar, Application of Magnetically Activated Carbon for the Separation of Nicotinic Acid from Aqueous Solution, Journal of Chemical & Engineering Data (IF: 1.835), January, 2017, 62 (2), pp. 712-719.
- 27. A.K. Dalai, S. P. Chaurasia, Kriti Bhandari, Aditi Sharma, "A Review on Lipase Catalysed Synthesis of DHA Rich Glyceride from Fish Oils", International Journal of Research and Scientific Innovation (IJRSI) 3 (IA), 9-19.
- 28. J Carpenter, VK Saharan, "Ultrasonic assisted formation and stability of mustard oil in water nanoemulsion: Effect of process parameters and their optimization", Ultrasonics Sonochemistry, 2016, 35, 422-430.
- 29. S Rajoriya, S Bargole, V K Saharan, "Degradation of a cationic dye (Rhodamine 6G) using hydrodynamic cavitation coupled with other oxidative agents: Reaction mechanism and pathway", Ultrasonics Sonochemistry 34 (2017) 183-194
- 30. S Rajoriya, S Bargole, V K Saharan, "Degradation of reactive blue 13 using hydrodynamic cavitation: Effect of geometrical parameters and different oxidizing additives", Ultrasonics Sonochemistry 37 (2017) 192-202.
- 31. D Mehta, P Mondal, V K Saharan, S George, "Synthesis of Hydroxyapatite Nanorods for application in water defluoridation and optimization of process variables: Advantage of ultrasonication with precipitation method over conventional method", Ultrasonics Sonochemistry 37 (2017) 56-70.
- 32. J Carpenter, M Badve, S Rajoriya, S George, V K Saharan, AB Pandit, "Hydrodynamic cavitation: an emerging technology for the intensification of various chemical and physical processes in a chemical process industry", Reviews in Chemical Engineering, In press, 2017.





- 33. J Carpenter, S George, V K Saharan, "Low pressure hydrodynamic cavitating device for producing highly stable oil in water emulsion: Effect of geometry and cavitation number", Chemical Engineering & Processing, 116 (2017) 97-104.
- 34. Srivastava, Ankit, Ankush Bhagat, Utkarsh Sharma, Rajeev Kumar Dohare, Kailash Singh, and Sushant Upadhyaya (2017). "Comparative study of arsenic (V) removal from aqueous solution using Aliquat-336 and 2-ethyl hexanol through emulsion liquid membrane." Journal of Water Process Engineering 16: 64-68.
- 35. Priyanka Meena, Rajeev Kumer Dohare, Kailash Singh, V.P. Singh, Madhu Agrawal, Sushant Upadhyaya, "Review Paper on Reactive Distillation in a Divided Wall Column", International Journal of Advanced Technology and Engineering Exploration, Vol.4 (27), 2017.

## List of Papers Presented at International Conferences:

- 1. Jharna Gupta, Madhu Agarwal, A.K.Dalai and S.P. Chaurasia "Marble slurry derived heterogeneous catalyst for biodiesel production from soybean oil" International Conference CHEMCON-2016 by Anna University Chennai during December 27-30,2016.
- 2. Jharna Gupta, Madhu Agarwal and A.K.Dalai "A water treatment derived solid base catalyst for biodiesel production" International Conference Emerging Technologies in Agricultural and food engineering by IIT Kharagpur during December 27-30, 2016.
- 3. Jharna Gupta, Madhu Agarwal and A.K.Dalai and S.P. Chaurasia "Preparation and Characterization of CaO nanoparticles for biodiesel production from mixture of edible and nonedible oils" International Conference on New and renewable energy Resources for sustainable future (ICONRER 2017) by Swami Keshvanand Institute of Technology during Feb 2-4, 2017.
- 4. Jharna Gupta , Madhu Agarwal, "Comparative study of catalytic activity from different waste source for Biodiesel synthesis, International Conference on Recent Trends in Engineering and Material Sciences (ICEMS2016) by JNU at Jaipur/ March 17-19,2016(under publication in Elsevier proceeding)
- 5. Swati dubey, Madhu Agarwal, A.B. Gupta, Sushant Updhayaya and Rajeev Kumar Dohare "Study on defluoridation using Nalgonda technique and speciation of products formed during the process "International Conference CHEMCON-2016 by Anna University Chennai during December 27-30,2016.
- 6. Swati dubey, Madhu Agarwal, A.B. Gupta "A study on the characterization of the species formed during fluoride removal through coagulation" International Conference on New and renewable energy Resources for sustainable future(ICONRER 2017) by Swami Keshvanand Institute of Technology during Feb 2-4,2017.
- Renu, Madhu Agarwal, Kailash Singh "Methodlogies for removal of heavy metal ion from waste water: An overview " International Conference on New and renewable energy Resources for sustainable future(ICONRER 2017) by Swami Keshvanand Institute of Technology during Feb 2-4,2017
- 8. Ayushi Jain, Madhu Agarwal, "Removal of arsenic from drinking water by zero valent iron supported on alumina" International Conference on New and renewable energy Resources for sustainable future(ICONRER 2017) by Swami Keshvanand Institute of Technology during Feb 2-4,2017.



- 9. Swati dubey, Madhu agarwal, A.B.Gupta, Sushant Upadhyaya, Rajeev Kumar Dohare (2016),"Study on Defluoridation using Nalgonda Technique and Speciation of Products formed during the Process" International Conference on Chemical Engineering towards sustainable development organized by IIChE Chennai Regional Centre and IIT Madras at Annamalai University Algappa College of Engineering Chennai during 27-30 December 2016.
- Rakesh Baghel, Sushant Upadhaya, Kailash Singh, S. P. Chaurasia, A. B. Gupta (2016), "Central Composite Design For Parametric Study In Vacuum Membrane Distillation For Naphthol Blue Black Dye Removal" International Conference on Chemical Engineering towards sustainable development organized by IIChE Chennai Regional Centre and IIT Madras at Annamalai University Algappa College of Engineering Chennai during 27-30 December 2016.
- 11. Shivraj Chandel, Sushant Upadhaya, Rajeev Kumar Dohare, Madhu Agarwal (2016) "Removal of Methylene Blue Dye using Granular Activated Column in Continuous Fixed Bed Adsorption" International Conference on Chemical Engineering towards sustainable development organized by IIChE Chennai Regional Centre and IIT Madras at Annamalai University Algappa College of Engineering Chennai during 27-30 December 2016.
- 12. Priya Pal, Sushant Upadhyaya, S.P.Chaurasia (2016)" Effect of operating parameter on glycerol concentration by membrane distillation using PTFE membrane "International Conference on Chemical Engineering towards sustainable development organized by IIChE Chennai Regional Centre and IIT Madras at Annamalai University Algappa College of Engineering Chennai during 27-30 December 2016.
- 13. Sarita Kalla, Sushant Upadhyaya, Kailash Singh (2016), "Theoretical Assessment of the Separation of HCl -Water Azeotrope by Air Gap Membrane Distillation" International Conference on Chemical Engineering towards sustainable development organized by IIChE Chennai Regional Centre and IIT Madras at Annamalai University Algappa College of Engineering Chennai during 27-30 December 2016.
- 14. Jitendra Kumar Singh, Sushant Upadhaya, S.P.Chaurasia, Rakesh Baghel (2017) "Study on Membrane fouling in Vacuum Membrane Distillation for Desalination" International Conference on Recent Trends in Chemical, Environmental, Bioprocess, Textile, Mining, Material and Metallurgical Engineering organized by Krishi Sanskriti at JNU Delhi on 29 April 2017.
- 15. Rakesh Baghel, Sarita Kalla, Sushant Upadhyaya, S. P. Chaurasia & Jitendra Kumar Singh (2017) "Treatment of Sudan III dye form Waste water using vacuum membrane distillation" International Conference on Recent Trends in Chemical, Environmental, Bioprocess, Textile, Mining, Material and Metallurgical Engineering organized by Krishi Sanskriti at JNU Delhi on 29 April 2017.
- 16. Dipaloy Datta, Ankit Gaikwad, Devang Srivastava, and Sakshi Garg, "Preparation and Use of Solvent Impregnated Clay Containing Amine for the Removal of Copper Ion", 5th International Conference on Water, Energy and Environment (ICWEE 2017), at the American University of Sharjah, Sharjah, UAE, February 28 March 2, 2017.
- 17. Vijayalakshmi Gosu, BR Gurjar, V Subbaramaiah. "CWPO of pyridine bearing wastewater by nano scale zero valent iron", International Conference on Chemical Engineering towards sustainable development organized by IIChE Chennai Regional Centre and IIT Madras at Annamalai University Algappa College of Engineering Chennai during 27-30 December 2016.



18. Vijayalakshmi Gosu, BR Gurjar, V Subbaramaiah. "Simultaneous Oxidation Of Pyridine And Quinoline By Nano Scale Zerovalent Iron", 5th International Conference on Water, Energy and Environment (ICWEE 2017), at the American University of Sharjah, Sharjah, UAE, February 28 - March 2, 2017.

**MNIT JAIPUR** 

- 19. Kalla S., Upadhyaya S. and Singh K., "Theoretical assessment of the separation of HClwater azeotrope by air gap membrane distillation", CHEMCON-2016, 27-30 December, 2016, Chennai.
- 20. Pundir A. S. and Singh K., "Equivalent control based sliding mode control forfixed bed reactor", CHEMCON-2016, 27-30 December, 2016, Chennai.
- 21. Sujan A., Vyas R. K. and Singh K., "A review on relative importance of input variables for gas holdup, volumetric mass transfer coefficient and bubble diameter in gas-liquid / gas-liquid-solid bubble columns using weight matrix of ANN and Garson's algorithm", CHEMCON-2016, 27-30 December, 2016, Chennai.
- 22. Kataria,G. and Singh,K. "Comparison of Levenberg-Marquardt and Gradient Descent Based Soft Sensors for Reactive Distillation Column", CHEMCON-2016, 27-30 December, 2016, Chennai.
- Shrivastava, P., Kumar, A. and Jana, S. K., "Synthesis of Precipitated Calcium Carbonate by Carbonation of CaCl<sup>2</sup> Solution in Bubble Column and Foam-Bed Reactors", CHEMCON 2016, A.C. Tech., Anna University, Chennai, Dec. 27-30, 2016, p. 285.
- 24. Kumar, A., Shrivastava, P. and Jana, S. K., "Studies on Absorption of SO<sup>2</sup> in A Three-Phase Bubble Column Slurry Reactor", CHEMCON 2016, A.C. Tech., Anna University, Chennai, Dec. 27-30, 2016, p. 788.
- 25. Jana, S. K. and Shrivastava, P., "CTAB Assisted Synthesis of Precipitated Calcium Carbonate", CHEMCON 2016, A.C. Tech., Anna University, Chennai, Dec. 27-30, 2016, p. 1045.
- 26. Sushant Upadhyaya, Kailash Singh, Jitendra Singh, Rakesh Baghel, & S.P. Chaurasia, "Artificial Neural Network Modeling of Vacuum Membrane Distillation for Desalination"International Conference on Desalination for the Environment: Clean Water and Energy, Organised by Elsevier at Marriott Park Hotel, Rome, Italy, 22–26 May 2016.
- 27. Jitendra Kumar Singh, Sushant Upadhyaya, and S.P. Chaurasia, "Energy Consumption study for PTFE and PVDF membrane in Vacuum Membrane Distillation for Desalination" International Conference on Desalination for the Environment: Clean Water and Energy, Organised by Elsevier at Marriott Park Hotel, Rome, Italy, 22–26 May 2016.
- 28. Vibha Goswami, Renu Upadhyaya, Sumanta Kumar Meher, Pankaj Kumar Pandey, Rakesh Baghel, & Sushant Upadhyaya," Adsorption studies of Methylene blue dye using activated charcoal in continuous column", International Conference on Desalination for the Environment: Clean Water and Energy, Organised by Elsevier at Marriott Park Hotel, Rome, Italy, 22–26 May 2016.
- 29. Chakraborty S., Vashishtha M., "A Novel Approach to Determine Moisture Migration Through Pressboard Insulation Using FEM" 14th International Conference on Numerical Analysis and Applied Mathematics by American Institute of Physics at Rhodes, Greece / September, 2016.



### **Research Papers Published in National Journals:**

- 1. Jitendra Kumar Singh, Sushant Upadhaya, S.P.Chaurasia, Rakesh Baghel (2017) "Study on Membrane fouling in Vacuum Membrane Distillation for Desalination" Journal of Basic and Applied Engineering Research Vol.4(3):229-233.
- 2. Rakesh Baghel, Sarita Kalla, Sushant Upadhyaya, S. P. Chaurasia & Jitendra Kumar Singh (2017) "Treatment of Sudan III dye form Waste water using vacuum membrane distillation" Journal of Basic and Applied Engineering Research Vol.4(3):237-241

### List of Papers Presented at National Conferences:

- 1. Jharna Gupta, Madhu Agarwal, Rajeev Kumar Dohare, Sushant Upadhyaya, "a review on process system engineering for biodiesel refineries" National Conference on Process Automation and control(NCPAC 2016) by MNIT at JAIPUR May 28-29/2016.
- 2. Jharna Gupta, Madhu Agarwal and A.K.Dalai "Transesterification of mixture of edible and nonedible vegetables oils using heterogeneous catalyst developed from marble slurry" 31st Indian Engineering Congress by The Institution of Engineers at Kolkata during December 16-18,2016.
- 3. Swati Dubey, Madhu Agarwal, A.B. Gupta, Rajeev Kumar Dohare, Sushant Upadhyaya, ''Automation and Control of Water Treatment Plant for Defluoridation'' National Conference on Process Automation & Control – 2016 May 28th-29th, 2016 at MNIT, Jaipur.
- 4. Renu, Madhu Agarwal, Kailash Singh, "Process control and optimization of waste water treatment plants using simulation softwares" National Conference on Process Automation and control (NCPAC 2016) by MNIT at JAIPUR May 28-29, 2016.
- 5. Renu, Madhu Agarwal, Kailash Singh, R. K. Dohare and S. Upadhyaya, "Process control and optimization of wastewater treatment plants using simulation softwares", *National Conference on Process Automation and Control,* held at Malviya National Institute of Technology, Jaipur on 28 May, 2016.
- 6. Agarwal, S., Singh, K., Gupta, A.B., Sharma, A.K., "Wastewater treatment of handmade paper industry using fly ash as low cost adsorbent," *India International Science Festival*, December 7-11, 2016, Delhi.
- 7. Priyanka Meena, Rajeev Kumer Dohare, Kailash Singh, V.P. Singh, Madhu Agrawal, Sushant Upadhyaya, A paper on "Review Paper on Reactive Distillation in a Divided Wall Column" presented at National Conference on Process Automation and Control from 28-29 May, 2016.
- 8. Sarita Kalla, Sushant Upadhyaya, Kailash Singh, Rajeev Kumar Dohare, Madhu Agarwal, A paper on "A Case Study on Separation of IPA-Water Mixture by Extractive Distillation Using Aspen Plus" presented at National Conference on Process Automation and Control from 28-29 May, 2016.





### MEMBERSHIP OF PROFESSIONAL BODIES

S. No.	Name of Faculty	Membership			
1.	Prof. S. P. Chaurasia	<ul> <li>Member of American Institute of Chemical Engineers.</li> <li>Life fellow member of Indian Institute of Chemical</li> <li>Engineers.</li> <li>Life member of Oil Technologists' Association of India</li> <li>Life member of Indian Membrane Society</li> <li>Life member of Indian Society for Technical Education</li> <li>Life member of Indian Desalination Association</li> </ul>			
2.	Dr. Kailash Singh	Life Member of Indian Institute of Chemical Engineers Life Member of Indian Desalination association Life Member of Indian Society for Technical Education			
3.	Dr. R. K. Vyas	Life Associate Member of Institution of Engineers (India) Life Member of IIChE Life Member of ISTE Life Member of Indian Desalination Association			
4.	Dr. Madhu Agarwal	Life Member of IIChE (LM40031) Life member of Indian Desalination Association			
5.	Mr. Shiv Om Meena	Life Member of Indian Desalination Association Life Member of Indian Institute of Chemical Engineers Life Member of Indian Society for Technical Education			
6.	Dr. U. K. Arun Kumar	Life Member of Indian Institute of Chemical Engineers (LM52074) Life member of Indian Desalination Association (LM-389)			
7.	Dr. V. Subbaramaiah	Life Member of Indian Desalination association Life Member of Indian Institute of Chemical Engineers			
8.	Dr. Dipaloy Datta	Life Member, Indian Desalination Association (InDA), LM - 388, Jan, 2016 Onwards. Member (Awarded), American Chemical Society (ACS). 2015-2018. Life Member of Indian Institute of Chemical Engineers			



### ANY OTHER DETAILS WORTH PUBLICATION IN ANNUAL REPORT 2016-17

S. No.	Name of Faculty	Particulars
1.	Prof. S. P. Chaurasia	Visited Western University, Ontario on 11 <sup>th</sup> October 2016 and interacted with Prof. Ajay Ray, Prof. Madhumita Ray, Prof. Amarjeet Bassi, Prof. Anand Prakash, Prof. Franco Berruti, Prof. Charles, Prof. Dominick and other faculty members and Ph D scholars of Chemical Engg Dept. and ICFAR for research Interaction.
2	Prof. S. P. Chaurasia	Visited Lassonde School of Engineering, York University, Toronto on 12-13 October, 2016. He had a meeting with Prof. Janusz Kozinski, Dean, Prof. Jit Sharma, Prof. Alidad and many other faculty members and scholars and coordinated the signing of agreement (MOU) for research and academic collaboration between Lassonde School of Engineering and MNIT Jaipur. He also had a meeting with Dr. Sushant Mitra, V.P. (Reseach) of York University regarding collaborative research possibilities.
3	Prof. S. P. Chaurasia	Visited Chemical Engineering Department, Univ. of Toronto on 14.10.2016 and gave a seminar on the topic "Vacuum Membrane Distillation : A Promising Technology for Water Purification". He also interacted with Prof. Allen Grant, HOD Chemical Engg., Prof. Ramin Farnood, Prof. Cathy, Prof. Yakunin, Prof. Brad Salvi, and other faculty members and scholars and discussed about the ongoing research activities.
4	Prof. S. P. Chaurasia	Visited University of Saskatchewan during 20-22 October, 2016. He had a meeting and discussion with Prof. Ajay K. Dalai, Prof. Peta, Prof. Raj, Prof. Chary, Prof. Nemati, Prof. Peng and many other faculty and scholars about ongoing research activities and future possibilities.
5	Ms. Priya Pal Research scholar	Has been awarded first prize for her paper entitled "Glycerol Water Separation by Membrane Distillation using PTFE Membrane" presented during one day Symposium on "Water Purification and Reject Management" organized at MNIT Jaipur on 12 Nov. 2016.
6	Mr. Avadh Oza Research Scholar	Visited University of Saskatchewan (Department of Chemical & Biological Engineering) for 6 month (October 2016- April 2017) to complete part of research work.



### **DEPARTMENT OF CHEMISTRY**

### **Research Papers Published in International Journals:**

- 1. Titanium Oxide Nanoparticles as Valuable Catalyst in Organic Synthesis: A Review (E-pub Ahead of Print) Author(s): Jyoti Joshi, Anshu Dandia, Sukhbeer Kumari, 2017, 14, DOI: 10.2174/1570193X14666170420114153.
- 2. Synthesis, Characterization and Antibacterial studies of 4-Hydroxy- 3-Methoxy- Benzyl Alcohol and 1-(4-Hydroxy- 3-Methoxyphenyl) Ethanol; J. Biol. Chem. Research , Vol. 33, (2016), 529-536.
- 3. Ecofriendly Synthesis and Characterization of Halo Substituted Benzylalalcohols; Int. J. Sci. Res. Vol. 5,(2016), 245-246.
- 4. Insecticidal evaluation and [4+2] Aza-Diels-Alder Synthesis of 3,7-Diaryl-6,7-dihydro-5H-6-substituted thiazolo[3,2-a]pyrimidin-5-ones under coupled ultrasonic irradiation and PTC R. Gupta, D.Sharma, P.S. Verma and A. Jain Journal of Heterocyclic Chemistry Vol. 53, 2016 DOI:10.1002/jhet.77638-45
- 5. Rationally designed tri-armed imidazole–indole hybrids as naked eye receptors for fluoride ion sensing Anshu Jain, Ragini Gupta & Madhu Agarwal Synthetic Communications (2017) DOI:10.1080/00397911.2017.1324625
- 6. Coumarin Based Receptor for Naked Eye Detection of Inorganic Fluoride Ion in Aqueous Media Anshu Jain, Ragini Gupta & Madhu Agarwal Har Krishan Bhalla & Sons (Taylor and Francis Group) 2017
- 7. Instantaneous and Selective Bare Eye Detection of Inorganic Fluoride Ion by Coumarin–Pyrazole-Based Receptors Anshu Jain, Ragini Gupta & Madhu Agarwal J. Heterocyclic Chem(2017), DOI 10.1002/jhet.2884
- 8. First example of a metallacarborane complex with the cyclobutenylidene ligand. I. D'yachihin, F. M. Dolgushin, I. A. Godovikov, N. K. Satrawala, R. K. Joshi, and I. T. Chizhevsky, Russian Chemical Bulletin, International Edition, 2016, 65, (3), 844.
- 9. A photochemical route to ferrocenyl.substituted ferrapyrrolinone complexes. Badri Nath Jha, Abhinav. Raghuvanshi, Raj K Joshi, Shaikh M Mobin, Pradeep Mathur. Appl Organometal Chem. 2017;e3805. https://doi.org/10.1002/aoc.3805
- Base-catalyzed cross coupling of secondary alcohols and aryl-aldehydes with concomitant oxidation of alcohols to ketones: An alternative route for synthesis of the Claisen-Schmidt condensation products. Naveen Satrawala, Kamal N. Sharma, Leah C. Matsinha, Latisa Maqeda, Shepherd Siangwata, Gregory S. Smith, and Raj K. Joshi. Tetrahedron Letters 2017, 58, 2761
- 11. One pot synthesis of important retinoid synthon by the catalytic regioselectivebifunctionalization of acetylenes, alcohol and carbon monoxide. Raj K. Joshi, Naveen Satrawala, Tetrahedron Letters 2017, DOI 10.1016/j.tetlet.2017.06.044
- 12 Sharma, R.; Yadav, L.; Lal, J.; Jaiswal,; P. K.; Mathur, M.; Swami, A. K.; Chaudhary, S. "Synthesis, antimicrobial activity, structure-activity relationship and cytotoxic studies of a new series of functionalized (Z)-3-(2-oxo-2-substituted ethylidene)-3,4-dihydro-2Hbenzo[b] [1,4]oxazin-2-one" Bioorg.Med. Chem. Lett., 2017, (Accepted).
- 13 Jaiswal,; P. K.; Sharma, V. Prikhodko, J.; Mashevskaya, I. V.; Chaudhary, S. "On water" ultrasound-assisted one pot efficient synthesis of functionalized 2-oxo-benzo [1, 4]



oxazines: First application to the synthesis of anticancer indole alkaloid, Cephalandole A" Tetrahedron Letters, 2017, 58(22), 2077-2083. (IF: 2.379)

- 14 Singh, S.; Shaw, R.; Shally; Chaudhary, S.; Kumar, A.; Pratap *R.Synthesis of arylated and aminated naphthalenes and their synthetic applications for aza-heterocycles.Tetrahedron*, 2016, 72, 6436-6443. (IF: 2.641)
- Sustainable Feasibility of the Environmental Pollutant Soot to Few Layer Photoluminescent Graphene Nanosheets for Multifunctional Applications. Tripathi, K. M.; Singh, A.; Bhati, A.; Sarkar, S.; Sonkar, S. K. ACS Sustainable Chem. Eng. 2016, 4 (12), pp 6399–6408.
- Sustainable Changes in the Contents of Metallic Micronutrients in First Generation Gram Seeds Imposed by Carbon Nano-onions: Life Cycle Seed to Seed Study. Tripathi, K.M.; Bhati, A.; Singh, A.; Sonker, A. K.; Sarkar, S.; Sonkar, S. K. ACS Sustainable Chem. Eng. 2017, 5 (4), pp 2906–2916
- 17 Sunlight-Induced Photochemical Degradation of Methylene Blue by Water-Soluble Carbon Nanorods. Bhati, A.; Singh, A.; Tripathi, K. M.; Sonkar, S. K. International Journal of Photoenergy 2016 Article ID 2583821.
- 18 B. Bandyopadhyay, P. Bishwas and Pradeep Kumar; "Ammonia as an efficient catalyst for decomposition of carbonic acid: a quantum chemical investigation.", *Phys. Chem. Chem. Phys.*, Vol. 18 page: 15995 (2016).
- 19 Pradeep Kumar, P. Bishwas and B. Bandyopadhyay; "Isomerization of Methoxy Radical Revisited: Impact of Water Dimer.", Phys. Chem. Chem. Phys., Vol. 18 page: 27728 (2016)
- 20 B. Bandyopadhyay and Pradeep Kumar; "Ammonia Catalyzed Formation of Sulfuric Acid in Troposphere: The Curious Case of a Base Promoting Acid Rain", *J. Phys. Chem. A* Vol 121 page: 3101 (2017)
- 21 Pradeep Kumar, "Heisenberg Invention of Matrices", *Resonance* Vol 22 page: 399 (2017)
- <sup>22</sup> "Isomerization of the methoxy radical revisited: the impact of water dimers" P. Kumar, P. Biswas and B. Bandyopadhyay Phys. Chem. Chem. Phys., 18, 27728 (2016)
- 23 "Ammonia as an efficient catalyst for decomposition of carbonic acid: a quantum chemical investigation" B. Bandyopadhyay, P. Biswas and P. Kumar Phys. Chem. Chem. Phys., 18, 15995 (2016)
- 24. Regioselective vicinal functionalization of unactivated alkenes with sulfonium iodate(I) reagents under metal-free condition. Dodla S. Rao, Thurpu R. Reddy, K. Babachary, Sudhir Kashyap (Org. Biomol. Chem. 2016, 14, 7529-7543.
- 25 Direct C-metallation of N-substituted triazoles promoted by mercury acetate. An alternative route to N-heterocyclic carbene complexes, Nai-Chieh Lin, Herbert J. H. Syu, Abbas Raja Naziruddin, Fu-Chen Liu, Ivan J.B., RSC Adv., 7, 11652-11656.
- 26 Formation of NH, NR N.Heterocyclic Carbene Complexes through Mercuration of Mono N. substituted Benzimidazoles, MH Yu, HH Yang, AR Naziruddin, S Kanne, BH Wang, FC Liu, IJB Lin, Eur. J. Inorg. Chem., 2016 (29), 4829-4834.
- 27 Platinum complexes bearing normal and mesoionic N-heterocyclic carbene based pincer ligands: syntheses, structures, and photo-functional attributes, AR Naziruddin, CS Lee, WJ Lin, BJ Sun, KH Chao, AHH Chang, Dalton Transactions, 45 (13), 5848-5859.





### **Research Papers Published in National Journals:**

1. Benzimidazole scaffold as dipodal molecular cleft for swift and efficient naked eye fluoride recognition *via* preorganized N-H and aromatic C-H in aqueous media *Anshu Jain, Ragini Gupta & Madhu Agarwal, Indian Journal of Chemistry Vol. 56 A 2017.* 

### List of Papers Presented at International Conferences:

- 1- "An Efficient and Rapid Multicomponent 1,3-Dipolar Cycloaddition of Azomethine Ylides with Dipolarophiles: a Faster Access to Spirothiapyrrolizidines", Jyti Joshi, at 8<sup>th</sup> International Conference (I-SEEC 2017)held on 15th-17th March,2017 organized by Phranakhon Rajabhat University at Pattaya, Thailand.
- 2- Development of magnetically separable and recyclable citrate ornamented nanoparticles as efficient catalyst for synthesis of benzimidazole derivative under ultrasonic irradiation. Anshu Jain, Yachana Jain, Mitlesh Kumari, Ragini Gupta. International Conference on, "Frontiers at the Chemistry Allied Sciences Interface, 25<sup>th</sup> 26<sup>th</sup> April, 2016, organized by Centre of Advanced Studies, Department of Chemistry, University of Rajasthan, Jaipur.
- 3- Lemon Juice Modified Nano Magnetically Separable Catalyst For The Efficient Synthesis Of Biologically Important Antipyrine Schiffs Base Under Ultrasonication. Mitlesh Kumari, Anshu Jain, Yachana Jain, Ragini Gupta. International Conference on, "Frontiers at the Chemistry – Allied Sciences Interface, 25<sup>th</sup>- 26<sup>th</sup> April, 2016, organized by Centre of Advanced Studies, Department of Chemistry, University of Rajasthan, Jaipur.
- 4- Click chemistry approach for the synthesis of heterobioconjugates in water using cyclodextrin as a phase transfer catalyst under ultrasonication. Yachana Jain, Mitlesh Kumari, Anshu Jain, Ragini Gupta. International Conference on, "Frontiers at the Chemistry Allied Sciences Interface, 25<sup>th</sup> 26<sup>th</sup> April, 2016, organized by Centre of Advanced Studies, Department of Chemistry, University of Rajasthan, Jaipur.
- 5- Transition metal free cross-coupling reactions: Synthesis of biological and pharmaceutical relevance diarylidene ketones ,Raj Kumar Joshi, Naveen Satrawala, Kamal Nayan Sharma, at 5th Symposium on Advance Biological Inorganic Chemistry, held in The Stedal, Kolkatta during January 7-11, 2017.
- 6- Catalytic Syn the is of Biologically Significant Oraganic Compounds Via Metal-Chalcogenated N-heterocyclic Carbene Complexes. Kamal Nayan Sharma, Raj Kumar Joshi, at 5<sup>th</sup> Symposium on Advance Biological Inorganic Chemistry, held in The Stedal, Kolkatta during January 7-11, 2017.
- Prikhodko, J. I.; Maslivets, A. N.; Mashevskaya, I. V.; Chaudhary, S.; Mathur, M. and Swami, A. K. "Antifungal and Antibacterial activity of products of reaction between hetareno[E]pyrrole-2,3-diones with 2-aminothiophenole" International Conference on "Current Trends in Chemical Sciences" held at Department of Organic Chemistry, Perm State University, Perm, Russia on 19<sup>th</sup>-21<sup>st</sup> Oct, 2016.
- 8 Prikhodko, J. I.; Pchelintseva, D. V.; Maslivets, A. N.; Mashevskaya, I. V.; Chaudhary, S.; Mathur, M. and Swami, A. K. "Substituted Methanobenzo[5.6][1,4]Diazepin[1,7-A]Quinoxalin-1,4,8-Triones, displaying antibacterial activity" International Conference on "Current Trends in Chemical Sciences" held at Department of Organic Chemistry, Perm State University, Perm, Russia on 19<sup>th</sup>-21<sup>st</sup> Oct, 2016.



- 9 Yogesh Kumar Sonia and Sumanta Kumar Meher, Environmental-friendly Synthesis and Characterization of Novel NiCo<sup>2</sup>O<sup>4</sup> Hexa-nanocones and NiCo2O4-Graphene Heteronanocomposite, "Second International Conference on Material Science (ICMS-2017)" 16-18 February 2017, Organized by Department of Physics, Tripura University, Tripura, India.
- 10 Mahesh Kumar Paliwal and Sumanta Kumar Meher, Multiple Dye Adsorption by Flower-Like ZnO: A Comprehensive Kinetic Study, "Second International Conference on Material Science (ICMS-2017)" 16-18 February 2017, Organized by Department of Physics, Tripura University, Tripura, India.
- 11 Mahesh Kumar Paliwal and Sumanta Kumar Meher, Facile Hydrothermal Synthesis and Characterization of Novel CoNi2O4 Hexa-nanocones and CoNi2O4-Graphene Heteronanocomposites, "International Conference on Recent Trends in Chemical Sciences (ICRCS-2017)" 12-13 January 2017, Organized by PG Department of Chemistry, Govt. Engineering College Bikaner, Rajasthan, India.
- 12 Mahesh Kumar Paliwal and Sumanta Kumar Meher, Dye-polluted Waste Water Treatment Using CeO2, "International Conference on Technologically Advanced Materials & Asian Meeting on Ferroelectricity (ICTAM-AMF10)" 07-11 November 2016, Organized by University of Delhi and Society for Technologically Advanced Materials of India (STAMI), India.
- 13 Mahesh Kumar Paliwal and Sumanta Kumar Meher, Flower-like ZnO for efficient removal of dye-wastewater pollutants, "International Conference on Frontiers at the Chemistry Allied Sciences Interface (FCASI-2016)" 25-26 April 2016, Organized by Department of Chemistry, University of Rajasthan, Jaipur, India.
- 14 Poster presentation in NMD-ATM 2016 organized by Department of Material science and Engineering, IIT Kanpur on 11-14 November,2016 by presentation Anupriya Singh, Anshu Bhati and Sumit K. Sonkar, Production of few-layer graphene nanosheets with tunable photoluminescent properties from pollutant soot.
- 15 Oral presentation in National Conference on "Advances in Chemistry for Sustainable Developments (ACSD-2017)" organized by HBTU ,Kanpur on 22-23 March,2017 by Sumit K.Sonkar, Water soluble nano-carbons and its non-toxic biological applications.
- 16 Ruthenium Catalyzed Stereo/Chemo/Regioselective Preparation of Mannopyranosides From Glycals. Sudhir Kashyap Indo-German workshop on Recent Applications of Carbohydrates in Chemistry and Biology (RACCB–2017) (SL-05, RACCB-2017) *held* at Department of Chemistry, IIT (BHU) Varanasi from February 14-16, 2017.
- 17 Sulfonium Bis(Acetoxy) Iodate (I) Complex Promoted Iododglycosylation of Glycal: Stereoselective Synthesis of 2-Deoxy Sugars" Dodla Sivanageswara Rao, Thurpu Raghavender Reddy, Sudhir Kashyap Indo-German workshop on Recent Applications of Carbohydrates in Chemistry and Biology (RACCB–2017) (PP-01, RACCB-2017) held at Department of Chemistry, IIT (BHU) Varanasi from February 14-16, 2017.

### List of Papers Presented at National Conferences:

1- Antibacterial activities of compounds synthesized through Electro organic synthesis and Biotransformation method against four different strains of bacteria, Jytoti Joshi in 2nd National Conference on New Frontiers in Chemistry-from Fundamentals to Applications-II





(NFCFA2017), organized by the Department of Chemistry, BITS Pilani K K Birla Goa Campus, Goa during January 28-29, 2017.

- 2 Synthesis of tripodal triazoles by using cyclodextrin as a phase transfer catalyst", Dr. Ragini Gupta, Yachana Jain, Mitlesh Kumari. National conference recent advances in chemical sciences (RAICS 2015), 21-23 August, organized by Department of Chemistry, MNIT Jaipur.
- <sup>3</sup> "Rapid and efficient removal of congo dye from aqueous solution by using functionlised magnetically separable nanoparticles as adsorbent" Mitlesh Kumari, Yachana Jain, Dr. Ragini Gupta "National conference on Desalination and water purification for Defence and civil applications" organised by Defence Laboratory Jodhpur & Indian Desalination Association (InDA) from 22-23 March 2017.
- 4 Aqueous phase Carbon-Carbon Coupling reaction catalyzed with Unique Pd-NHC's chalcogen consisting pincer complexes. Raj Kumar Joshi, Kamal Nayan Sharma, Naveen Satrawala. Presented in Frontiers of Organometallic Chemistry 2016 (FOMC2016) held at The Leela Kovalam, Kovalam Beach Road, Thiruvananthapuram 695527, Kerala, India from the 3rd to the 6th of December 2016.
- 5 Palladium(II) Complex of Sulfurated N-Heterocyclic Carbene in Designing Efficient and Magnetically Recoverable Catalyst for Suzuki-Miyaura Coupling. Kamal Nayan Sharma, Naveen Satrawala and Raj Kumar Joshi, at 20<sup>th</sup> CRSI National Symposium in Chemistry, Gauhati University, Guwahati, Assam (India). During 5-7<sup>th</sup> February 2017.
- 6 Lal, J.; Chaudhary, S. "Synthesis of Symmetrical NCN Pincer Complexes of First Row Transition Metals: An Attempt towards C-H (Sp<sup>2</sup>)Bond Functionalization" National Conference on "Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges" (OCSD-2016) 30-31 Aug, 2016 Abstract of papers at Department of Chemistry, Birla Institute of Science and Technology (BITS) Pilani, India.
- 7 Sharma, R.; Lal, J.; Chaudhary, S. "Microwave-assisted synthesis and antimicrobial activity of novel 2-oxo-benzo-[1, 4]-oxazine analogues" National Conference on "Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges" (OCSD-2016) 30-31 Aug, 2016 Abstract of papers at Department of Chemistry, Birla Institute of Science and Technology (BITS) Pilani, India.
- 8 Mahesh Kumar Paliwal and Sumanta Kumar Meher, A Cost Effective and Environmentalfriendly Micro-wave Mediated synthesis and Characterization of Flower-like NiCo2O4, "NANO INDIA 2017" 15-16 March 2017, Organized by Indian Institute of Technology, New Delhi, India.
- 9 Sumanta Kumar Meher, Morphology Tuned Oxide Nanomaterials for Redox Capacitor Applications, 11<sup>th</sup> CRSI-RSC Symposium and 20th CRSI National Symposiums in Chemistry (CRSI-2017) 02-05 February 2017, Organized by Gauhati University, Guwahati, Assam, India.
- 10 Anupriya Singh, Anshu Bhati and Sumit K. Sonkar, *Production of few layer Graphene Nano* sheets with tunable photo-luminescent properties from pollutant soot. National symposium on water purification and reject management (WPRM-2016) organised by department of Chemical engineering, MNIT Jaipur on 12 November.
- 11 Anupriya Singh, Anshu Bhati and Sumit K. Sonkar, *Water soluble carbon dots :* hydrothermally synthesized from Soya-nuggets for imaging application in International



Conference on Advances for Nanoscience and Nanotechnology, (ICANN, 2016) organized by Jamia Milia Islamia, New Delhi, India, on 4<sup>th</sup>-5<sup>th</sup> November 2016.

- 12 Anupriya Singh, Anshu Bhati and Sumit K. Sonkar, *National conference on desalination* and water purification for defense and civil application organized by Defence research development organization (DRDO), Jodhpur on 22-23 march, 2017
- 13 Stereoselective Synthesis of Mannose from Glycals: Scope and Application of Ruthenium Catalysis. Sudhir Kashyap 2<sup>nd</sup> National Conference on New Frontiers in Chemistry-from Fundamentals to Applications-II (NFCFA2017) (OL-2, NFCFA-2017) *held at* BITS Pilani K K Birla Goa Campus, Goa from January 28-29, 2017.
- 14 Stereoselective and divergent functionalization of unactivated olefins with sulfonium iodate(I) reagents. Dodla Sivanageswara Rao, Sudhir Kashyap 2nd National Conference on New Frontiers in Chemistry-from Fundamentals to Applications-II (NFCFA2017) (P-80, NFCFA-2017) held at BITS Pilani K K Birla Goa Campus, Goa from January 28-29, 2017.
- 15 Stereoselective Glycosylation: Synthesis of Mannopyranosides from Glycals. Sudhir Kashyap National Conference on Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges (IL-18, OCSD-2016) *held at* BITS, Pilani, India from August 29-30, 2016.
- 16 Regioselective Bisfunctionalization of glycals using Sulfonium iodate (I) complex. Dodla Sivanageswara Rao, Thurpu Raghavender Reddy, Kalvacherla Babachary, Sudhir Kashyap\* National Conference on Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges (PP-43, OCSD-2016) *held at* BITS, Pilani, India from August 29-30, 2016.

### **MEMBERSHIP OF PROFESSIONAL BODIES**

S. No.	Name of Faculty	Membership			
1.	Dr. Rajkumar Joshi	American Chemical Society			
2	Dr. Sandeep Chaudhary	Editorial Advisory Board Member: <i>Chemical</i> <i>Biology letters</i> (2016 - Present)			
3	Dr. Sumit Kumar Sonkar	American Chemical Society			
4	DI. Suinit Kumai Sonkai	Chemical Research Society of India			
5		Life Member (LF-791/2017), Indian Society of Chemists and Biologists (ISCB)			
6	Dr Sudhir Kashyap	Life Member (L32289), The Indian Science Congress Association (ISCA)			
7		Life Membership in Chemical Research Society of India (CRSI)			



8	Dr Sudhir Kashyap	Life Membership in ACCT(I) Association of Carbohydrate Chemists and Technologists (INDIA)
9		MRSC (Royal Society of Chemistry)
10	Dr. Abbas Raja Naziruddin	CRSI (Chemical Research Society of India)

### ANY OTHER DETAILS WORTH PUBLICATION IN ANNUAL REPORT2016-17

S. No.	Name of Faculty	Perticulars
1.	Dr. Sandeep	Reviewer for Journals: Acta Chimica Slovenica, Research on
	Chaudhary	Chemical Intermediates (RINT), Arkivoc, Current Trends in Medicinal Chemistry, BMC Infectious Diseases

### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

### **Research Papers Published in International Journals:**

S.No.	Article Title	Author List	Journal Name	Volume & Number	Years
1	Efficient and Secure Multi Secret Sharing Schemes based on Boolean XOR and Arithmetic Modulo	Maroti Deshmukh, Neeta Nain, Mushtaq Ahmed	Multimedia Tools and Applications, Springer	doi:10.1007/s1104 2-016-4229-x	2016
2	A novel approach for face detection using hybrid skin color model		ection using hybrid skin Neeta Nain Fadav and Fournal of Reliable Intelligent	doi:10.1007/s4086 0-016-0024-8	2016
3	Unobtrusive silhouette extraction using multivariate analysis and shadow removal in RGB color model	Mohit Kumar Singh and Neeta Nain	Journal of Reliable Intelligent Environments, Springer	doi:10.1007/s4086 0-016-0031-9	2016
4	Texture based feature extraction method for classification of brain tumor MRI.	Ankit Vidyarthi, Namita Mittal	Journal of Intelligent and Fuzzy Systems	32(4): 2807-2818 (2017)	2017
5	Prominent feature extraction for evidence gathering in question answering	Lokesh Kumar Sharma, Namita Mittal:	Journal of Intelligent and Fuzzy Systems	32(4): 2923-2932 (2017)	2017
6	AVNM: A Voting based Novel Mathematical Rule Ankit Vidyard	Ankit Vidyarthi, Namita Mittal:	Computer Methods and Programs in Biomedicine	137: 195-201 (2016)	2016



7	Prominent feature extraction for review analysis: an empirical study	Basant Agarwal, Namita Mittal:	Journal of Experimental and Theoretical Artificial Intelligence	28(3): 485-498 (2016)	2016
8	Recent developments in human gait research: parameters, approaches, applications, machine learning techniques, datasets and challengesC Prakash, R Kumar, N Mittal		Artificial Intelligence Review	Volume 2: 1- 40(2016)	2016
9	Local Directional Mask Maximum Edge Patterns for Image Retrieval and Face Recognition	Santosh Kumar Vipparthi, Subramanian Murala, Anil Balaji Gonde, Q. M. Jonathan Wu	IET Computer Vision, (IEEE, IET)	10 (3), 182-192	2016
10	Survey of Peer-to-Peer Botnets and Detection Frameworks	R. Singh, E. S. Pilli, and R. C. Joshi	International Journal of Network Security		accepted
11	Energy efficient fuzzy based approach for dynamic virtual machine consolidation	A. Choudhary, M. C. Govil, G. Singh, L. K. Awasthi, E. S. Pilli	International Journal of Grid and Utility Computing		accepted
12	VAED: VMI Assisted Evasion Detection Approach for Intrusion Detection for Cloud Environment	P. Mishra, E. S. Pilli, V. Varadharajan, and U. Tupakula	Concurrency and Computation: Practice and Experience	vol. 29	2017
13	Intrusion Detection Techniques in Cloud Environment: A Survey	P. Mishra, E. S. Pilli, V. Varadharajan, and U. Tupakula	Journal of Network and Computer Applications	vol. 77, pp. 18-47	2017
14	PSI-NetVisor: Program semantic aware intrusion detection at network and hypervisor layer in cloud	P. Mishra, E. S. Pilli, V. Varadharajan, and U. Tupakula	Journal of Intelligent & Fuzzy Systems	vol. 32, no. 4, pp. 2909-2921	2017
15	Botnet Analysis Using Ensemble Classifier	A. Bijalwan, N. Chand, E. S. Pilli and C. Ramakrishna	Perspectives in Science	vol. 8, pp. 502-504	2016
16	Detection of slanders through Euclidean distance similarity assessment for securing e-commerce agents in P2P decentralised electronic communities	P. Dadhich, K. Dutta, and M. C. Govil,	International Journal of Security and Networks	vol. 11, pp. 48-65	2016-17
17	DPAODV - A dynamic probabilistic-based energy efficient routing protocol for MANETs	M. Agarwal, M. C. Govil, and M. Sinha	International Journal of Applied Engineering Research	vol. 11, pp. 4024- 4030	2016-17



18	DDoS Attacks in Cloud Computing: Issues, Taxonomy, and Future Directions	G. Somani, M. S. Gaur, D. Sanghi, M. Conti, and R. Buyya	Computer Communications		2016-17
19	Combating DDoS attacks in the cloud: Requirements, trends, and future directions	G. Somani, M. S. Gaur, D. Sanghi, M. Conti, M. Rajarajan, and R. Buyya	IEEE Cloud Computing	vol. 4, pp. 22-32,	2016-17
20	Moralism: mobility prediction with link stability based multicast routing protocol in MANETs	G. Singal, V. Laxmi, M. S. Gaur, and V. Rao	Wireless Networks	vol. 23, pp. 663- 679	2016-17
21	DDoS victim service containment to minimize the internal collateral damages in cloud computing	G. Somani, M. S. Gaur, D. Sanghi, M. Conti, and M. Rajarajan	Computers and Electrical Engineering		
22	Service resizing for quick DDoS mitigation in cloud computing environment	G. Somani, M. S. Gaur, D. Sanghi, M. Conti, and R. Buyya	Annales des Telecommunications/Annals of Telecommunications,	pp. 1-16,	2016
23	Colluding browser extension attack on user privacy and its implication for web browsers	A. Saini, M. S. Gaur, V. Laxmi, and M. Conti	Computers and Security	vol. 63, pp. 14- 28	2016
24	Enhancing QoE for video streaming in MANETs via multi-constraint routing,	C. Lal, V. Laxmi, M. S. Gaur, and M. Conti	Wireless Networks,	pp. 1-22,	2016
25	ÏfnLBDR: Generic congestion handling routing implementation for two-dimensional mesh network-on-chip	N. Gupta, A. Sharma, V. Laxmi, M. S. Gaur, M. Zwolinski, and R. Bishnoi	IET Computers and Digital Techniques,	vol. 10, pp. 226- 232,	2016
26	Resilient routing implementation in 2D mesh NoC	R. Bishnoi, V. Laxmi, M. S. Gaur, and M. Zwolinski	Microelectronics Reliability,	vol. 56, pp. 189- 201	2016



### List of Papers Presented at International Conferences

S.No.	Article Title	Author List	Conference Name	Conference Venue	Conference date
1	A Robust Multi-Model Approach for Face Detection in Crowd	Sonu Lamba and Neeta Nain	SITIS2016	Naples, Iatly	28 Nov - 1 Dec 2016
2	Person Identification on the Basis of Footprint Geometry	Riti Kushwaha and Neeta Nain	SITIS2016	Naples, Iatly	28 Nov - 1 Dec 2016
3	FICUR: Employing SDN programmability to secure ARP	A Nehra, M Tripathi, MS Gaur	CCWC, 2017	Las Vegas, USA	9-11 Jan. 2017
4	Multiple distance sensors based smart stick for visually impaired people	S Sharma, M Gupta, A Kumar, M Tripathi, MS Gaur	CCWC, 2017	Las Vegas, USA	9-11 Jan. 2017
5	SPECTRA: A Precise Framework for Analyzing CryptographicVulnerabilities in Android Apps	Jyoti Gajrani,Meenakshi Tripathi, Manoj Singh GaurVijay Laxmi, Mauro Conti, Muttukrishanan Rajarajan	CCNC, 2017	Las Vegas, USA	8-11 Jan. 2017
6	Detection of Information Leaks via Reflection in Android Apps	Jyoti Gajrani, Li Li, Vijay Laxmi, Meenakshi Tripathi, Manoj Singh Gaur, Mauro Conti	ACM on Asia Conference on Computer and Communications Security (ASIACCS),POST ER, 2017	Abu Dhabi	2-6 April 2011
7	Efficient Entity Resolution using Multiple Blocking Keys for Bibliographic Dataset	D. Mittal, E. S. Pilli and M. Gupta	International Conference on Intelligent Communication and Computational Techniques (ICCT)	Jaipur,India	Accepted
8	Obviating Capricious Behavior in Internet of Things	A. Sharma, E. S. Pilli, A. P. Mazumdar	International Conference on Advances in Computing, Communications and Informatics (ICACCI)	Manipal, India	2017
9	A Shortest Path Approach to SPARQL Chain Query Optimization	T. Chawla, G. Singh, E. S. Pilli	International Conference on Advances in Computing, Communications and Informatics (ICACCI)	Manipal, India	2017





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10	IHIDS: Introspection-Based Hybrid Intrusion Detection System in Cloud Environment	A. Kashyap, G. S. Kumar, S. Jangir, E. S. Pilli and P. Mishra	International Conference on Advances in Computing, Communications and Informatics (ICACCI)	Manipal, India	2017
11	Out-VM Monitoring for Malicious Network Packet Detection in Cloud	P. Mishra, E. S. Pilli, V. Varadharajan, and U. Tupakula	First IEEE ISEA Asia Security and Privacy Conference	Surat, India	2017
12	Securing Virtual Machines from Anomalies Using Program-Behavior Analysis in Cloud Environment	P. Mishra, E. S. Pilli	18th International Conference on High Performance Computing and Communications; 14th International Conference on Smart City; 2nd International Conference on Data Science and Systems (HPCC/SmartCity/ DSS)	Sydney, Australia	2016
13	A broker based framework for federated Cloud environment	S. S. Chauhan, E. S. Pilli, and R. C. Joshi	International Conference on Emerging Trends in Communication Technologies (ETCT)	Dehradun, India	2016
14	Research issues in RDF management systems	T. Chawla, G. Singh, E. S. Pilli, and M. C. Govil	International Conference on Emerging Trends in Communication Technologies (ETCT)	Dehradun, India	2016
25	"Modeling software security requirements through functionality rank diagrams	R. Goel, M. C. Govil, and G. Singh	Conference on Artificial Intelligence		2016
26	A secure software design methodology	R. Goel, M. C. Govil, and G. Singh	International Conference on Advances in Computing, Communications and Informatics, ICACCI 2016		2016
27	Security requirements elicitation and modeling authorizations	R. Goel, M. C. Govil, and G. Singh,	Communications in Computer and Information Science		2016



		J. Gajrani, L. Li, V.		
28	POSTER: Detection of Information Leaks via Reflection in Android Apps	Laxmi, M. Tripathi, M. S. Gaur, and M. Conti		2016
29	POSTER: Detecting Inter- App Information Leakage Paths	S. Bhandari, F. d. r. Herbreteau, V. Laxmi, A. Zemmari, P. S. Roop, and M. S. Gaur		
30	A Power Efficient Dual Link Mesh NoC Architecture to Support Nonuniform Traffic Arbitration at Routing Logic	S. Yadav, V. Laxmi, and M. S. Gaur	IEEE International Conference on VLSI Design	2016
31	FlowMine: Android app analysis via data flow	L. Sinha, S. Bhandari, P. Faruki, M. S. Gaur, V. Laxmi, and M. Conti,	13th IEEE Annual Consumer Communications and Networking Conference, CCNC 2016	2016
32	Visual speech recognition with selected boundary descriptors	P. Singh, V. Laxmi, and M. S. Gaur	Studies in Computational Intelligence	2016
33	MCLSPM: Multi-constraints link stable multicast routing protocol in adhoc networks	G. Singal, V. Laxmi, M. S. Gaur, S. Todi, V. Rao, and A. Zemmari	IFIP Wireless Days	2016
34	Detection of SQLite database vulnerabilities in android apps	V. Jain, M. S. Gaur, V. Laxmi, and M. Mosbah	Artificial Intelligence and Lecture Notes in Bioinformatics	2016
35	ELBA: Efficient layer based routing algorithm	A. Gangwal, M. Gupta, M. S. Gaur, V. Laxmi, and M. Conti	25th International Conference on Computer Communications and Networks, ICCCN 2016	2016
36	MimeoDroid: Large Scale Dynamic App Analysis on Cloned Devices via Machine Learning Classifiers	P. Faruki, A. Zemmari, M. S. Gaur, V. Laxmi, and M. Conti	46th Annual IEEE/IFIP International Conference on Dependable Systems and Networks, DSN-W 2016	2016
37	Android Code Protection via Obfuscation Techniques: Past, Present and Future Directions,	P. Faruki, H. Fereidooni, V. Laxmi, M. Conti, and M. S. Gaur	CoRR	2016





38	Android component vulnerabities: Proof of concepts and mitigation	B. Buddhdev, P. Faruki, M. Gaur, and V. Laxmi,	International Conference on Information Networking	2016
39	Intersection automata based model for android application collusion	S. Bhandari, V. Laxmi, A. Zemmari, and M. S. Gaur	International Conference on Advanced Information Networking and Applications, AINA, 2016	2016
40	Android App Collusion Threat and Mitigation Techniques	S. Bhandari, W. B. Jaballah, V. Jain, V. Laxmi, A. Zemmari, M. S. Gaur, and M. Conti	CoRR	2016

### List of Papers Presented at National Conferences

S.No.	Article Title	Author List	Conference Name	Conference Venue	Conference date
1	Resource Allocation at MAC to provide QoS for Cognitive Radio Networks	Kalpna Naidu, M Tripathi, Ramesh babu Battula	OWT	MNIT, Jaipur	18-19 March 2017
2	Energy Efficient Semi Grid Based Clustering in Heterogeneous Wireless Sensor Network	Mintu Biswas, Meenakshi Tripathi and Kalpna Naidu	Wispnet	Chennai, India	

### **Books Published**

S. No.	Title	Author	Publisher
1	Prominent feature Extraction for sentiment Analysis	Basant Aggarwal, Namita Mittal	Springer(2016)
2	Fundamentals of Network Forensics – A Research Perspective,	Ramesh C. Joshi and Emmanuel S. Pilli	I Ed., London, UK: Springer-Verlag (Computer Communication and Networks Series



### **Membership of Professional bodies**

### **DEPARTMENT OF ELECTRICAL ENGINEERING**

### **Research Papers Published in International Journals:**

- 1. Shahbaz.A.Siddiqui, Kusum Verma, K. R. Niazi, Manoj Fozdar, "A unified control scheme for power system transient stability enhancement through preventive and emergency control", International Transactions on Electrical Energy Systems, vol.26, pp. 365–383, 2016.
- 2. Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, Anil Swarnkar, and R.C. Bansal, "Simultaneous allocation of distributed energy resource using improved particle swarm optimization", Applied Energy, Elsevier, Vol. 185, pp. 1684-1693, 2016
- 3. Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, and Anil Swarnkar, "Optimal allocation of distributed energy resources using improved meta-heuristic techniques", Electric Power Components and Systems, Taylor & Francis,
- 4. Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, and Anil Swarnkar, "An integrated approach for distributed resource allocation and network reconfiguration considering load diversity among customers," Sustainable Energy, Grids and Networks, Elsevier, vol. 7, pp. 37-46, 2016.
- 5. Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, and Anil Swarnkar, "Optimal DG Allocation in Distribution Networks using Cat Swarm Optimization", Research Journal of Applied Sciences, Engineering and Technology, Maxwell, 13(8): 626-631, 2016
- Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, and Anil Swarnkar,"Optimal Allocation of DGs and Reconfiguration of Radial Distribution Systems using an Intelligent Search based TLBO", Electric Power Components and Systems, Taylor & Francis, Vol 45, Issue 5, pp. 476-490, 2016. (SCI).





- 7. Praveen Kumar, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Prospectives of Day-Ahead Network Reconfiguration for Smart Distribution Systems Considering Load Diversity," International Journal of Electrical Energy, Vol. 4, No. 3, pp. 184-188, September 2016.
- 8. Nand K. Meena, Anil Swarnkar, Nikhil Gupta, and K. R. Niazi, "Stochastic Volt/Var Planning and Operation for Microgrids with Renewables," International Journal of Electrical Energy, Vol. 4, No. 3, pp. 159-164, September 2016.
- 9. Vinay K. Jadoun, Mukesh K. Shah, Vipin C. Pandey, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Multi-Area Dynamic Economic Dispatch Problem with Multiple Fuels Using Improved Fireworks Algorithm," International Journal of Electrical Energy, Vol. 4, No. 4, pp. 204-208, December 2016.
- Saurabh Ratra, Pradeep Singh, and Rajive Tiwari, "Optimal Placement of Thyristor Controlled Series Compensators for Sensitive Nodes in Transmission System Using Voltage Power Sensitivity Index," International Journal of Electrical Energy, Vol. 4, No. 4, pp. 194-198, December 2016.
- 11. Jyotsna Singh, Saurabh Ratra, Rajive Tiwari, and K. R. Niazi, "An Analytical Approach to Find Optimal Location and Sizing of DGs for Power Loss Reduction and Voltage Stability Improvement," International Journal of Electrical Energy, Vol. 4, No. 4, pp. 189-193, December 2016.
- 12. Jiangtao Li, Chenghong Gu, Rohit Bhakar, Furong Li, "Transmission use of system charging for differentiating long-term impacts from various generation technologies", CSEE Journal of Power and Energy Systems, vol. 2, no. 2, pp. 11-19, 2016.
- S. Kumar, A. K. Verma, I. Hussain, B. Singh and C. Jain, "Better Control for a Solar Energy System: Using Improved Enhanced Phase-Locked Loop-Based Control Under Variable Solar Intensity," IEEE Industry Applications Magazine, vol. 23, no. 2, pp. 24-36, March-April 2017
- 14. Jasmindera Singh, and H. P. Tiwari ,"Automatic Generation Control of Two Area Reheat Thermal System with Generation Rate Constants Using Fuzzy Logic", International Journal of Research in Engineering and Technology Volume :5/6/2016
- 15. Ajay Kumar, Harpal Tiwari, Pradeep Anjana ,"Review of Active Power Filters for Improvement of Power Quality ", INROADS-An International Journal of Jaipur National University international Journal Volume :5/135-144/2016 ISBN: 2277-4904
- 16. Bhanu Pratap Soni, Akash Saxena, Vikas Gupta ,"A least square support vector machinebased approach for contingency classification and ranking in a large power system", Cogent Engineering, Taylor and Francis Volume :3/1/2016 ISBN: 2331-1916
- 17. Pradeep Anjana, Vikas Gupta, Harpal Tiwari, Nitin Gupta, Ramesh Bansal ,"Hardware Implementation of Shunt APF Using Modified Fuzzy Control Algorithm with STM32F407VGT Microcontroller", Electric Power Components and Systems, Taylor & Francis Volume:44/1530-1542/2016 ISBN: 1532-5008
- 19. S. Ray, N. Gupta and R. A. Gupta, "A Comprehensive Review on Cascaded H-Bridge





Inverter Based Large Scale Grid Connected Photovoltaic", in IETE Technical Review, pp. 1-15, August 2016 (SCI Indexed).

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- 78. Sreenu S, J. Verma, Sujil A, R. Kumar, "Matrix Based Univariate And Multivariate Linear Approach Towards Long Term Electrical Load Forecasting", International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES 2016), Delhi, India, July 4-6, 2016.
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- 80. C. Prakash, A. Mittal, S. Tripathi, R. Kumar, N. Mittal, "A Framework for Human Recognition using a Multimodel Gait Analysis Approach", IEEE International Conference on Computing, Communication and Automation, 2016 (ICCCA-2016), Greater Noida, India, 29-30 April 2016.
- 81. P. Goyal, S. Vyas, R. Kumar, "A Regulated Charging Scheme for Electric Vehicles Considering the Customers' Perspective", India Smart Grid Week (ISGW 2016), New Delhi, India, 15-19 March 2016.
- 82. V. Sangwan, R. Kumar, A. K. Rathore, "Estimation of Battery Parameters of the Equivalent Circuit Model using Grey Wolf Optimization", 6<sup>th</sup> IEEE International Conference on Power Systems, 2016 (ICPS 2016), New Delhi, India, 4-6 March 2016.
- 83. V. Kalkhambkar, R. Kumar, R. Bhakar, "Joint Optimal Allocation of Battery Storage and Hybrid Renewable Distributed Generation", 6<sup>th</sup> IEEE International Conference on Power Systems, 2016 (ICPS 2016), New Delhi, India, 4-6 March 2016.
- 84. A. Shukla, K. Verma, R. Kumar, "Online Voltage Stability Monitoring of Distribution System using Optimized Support Vector Machine", 6<sup>th</sup> IEEE International Conference on Power Systems, 2016 (ICPS 2016), New Delhi, India, 4-6 March 2016.
- 85. S. Vyas, R. Kumar, R. Kavasseri, "Statistical Identification and Classification of Potential Islanding Precursors in a Grid-Connected Solar Photo Voltaic System", 6th IEEE International Conference on Power Systems, 2016 (ICPS 2016), New Delhi, India, 4-6 March 2016.
- 86. S. Reddy, L. Panwar, R. Kumar, B. K. Panigrahi, "Optimal Demand Response Allocation in Resource Scheduling with Renewable Penetration", 6th IEEE International Conference on Power Systems, 2016 (ICPS 2016), New Delhi, India, 4-6 March 2016.
- 87. L. K. Panwar, S. Reddy K, A. Verma, B. K. Panigrahi, R. Kumar, "Optimal Schedule of Plug in Electric Vehicles in Smart Grid with Constrained Parking Lots", 6th IEEE International Conference on Power Systems, 2016 (ICPS 2016), New Delhi, India, 4-6 March 2016.
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- 90. Dhiraj, S. Verma, R. Kumar, "A Modified Genetic Algorithm-based Fault Simulation technique for Sequential circuits", 6<sup>th</sup> International Conference on Communication Systems and Network Technologies (CSNT-2016), Chandigarh, India, 5-7 March 2016.
- 91. Dhiraj, S. Verma, R. Kumar, "A Novel approach to Fault Simulation and Testing in Combinational Circuits using Modified Genetic Algorithm", 6<sup>th</sup> International Conference on Communication Systems and Network Technologies (CSNT-2016), Chandigarh, India, 5-7 March 2016.
- 92. Sujil A, S. Choudhary, Jatin Verma, R. Kumar, "Agent Based Intelligent Fault Detection, Isolation and Restoration in Smart Power System", IEEE Students' Conference on Electrical, Electronics And Computer Sciences (SCEECS-2016), Bhopal, India, March 5-6, 2016.
- 93. L. Panwar, S. Reddy, C. N. Raju, R. Kumar, "Experimental Analysis of Electrical Parameter Variation for Concentrated PV Module", IEEE Students' Conference on Electrical, Electronics And Computer Sciences (SCEECS-2016), Bhopal, India, March 5-6, 2016.
- 94. S. Reddy, B.K. Panigrahi, L. Kumar, R. Kumar, "Resource Scheduling in Deregulated Market with Uncertain Wind Energy Generation", IEEE Students' Conference on Electrical, Electronics And Computer Sciences (SCEECS-2016), Bhopal, India, March 5-6, 2016.
- 95. S. Jhajharia, S. Verma, R. Kumar, "Predictive Analytics for Breast Cancer Survivability: A Comparison of Five Predictive Models", 2<sup>nd</sup> International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2016), Udaipur, India, March 4-5, 2016.
- 96. S. Reddy, L. Kumar, B K Panigrahi, R. Kumar, "Price Based Resource Scheduling with Renewable Energy in Emission Constrained Market Structure", 2<sup>nd</sup> International Conference on Computational Intelligence and Communication Technology (ICICT-2016), Ghaziabad, India, 12-13 February 2016.
- 97. S. Reddy, Siva N. Raju, L. Panwar, R. Kumar, "V-Trough Concentrator with Back Surface Cooling for Rooftop Photovoltaic System", 2<sup>nd</sup> International Conference on Computational Intelligence and Communication Technology (ICICT-2016), Ghaziabad, India, 12-13 February 2016.

### List of Papers Presented at National Conferences

- Dhanraj Chitara, K. R. Niazi, Anil Swarnkar and Nikhil Gupta, "Small-Signal Stability Enhancement of Multimachine Power System using Bio-inspired Algorithms", 19<sup>TH</sup> National Power Systems Conference", 19th National Power Systems Conference, NPSC-2016, Bhubaneswar 19-21 Dec 2016
- 2. M. Kumawat, N. Gupta and N. Jain, "Analyzing the impacts of optimally allocated distributed energy resources on harmonics in radial distribution networks", 19<sup>th</sup> National Power Systems Conference (NPSC), IIT Bhubaneswar, pp-1-6, December 19<sup>th</sup> -21<sup>st</sup>, 2016.
- 3. Akanksha Shukla, Kusum Verma, Rajesh Kumar, "Consumer Perspective based Placement of Electric Vehicle Charging Stations by Clustering Techniques", 19th National Power Systems Conference, NPSC -2016, 19-21 Dec.2016, IIT Bhubaneswar.
- 4. S. Chawda, P. Mathuria, R. Bhakar, Uncertainty and risk management in electricity market: Challenges and opportunities, 19<sup>th</sup> National Power Systems Conference, NPSC-2016, IIT





Bhubneshwar, 19-21 December, 2016.

- 5. S. Sreekumar, A. Gupta, S., V. Agarwal, R. Bhakar, Matrix based univariate and multivariate linear similar day approach towards short term solar power prediction, 19th National Power Systems Conference, NPSC-2016, IIT Bhubneshwar, 19-21 December, 2016.
- 6. Kaleeswari M, K.Vijayakumar, "A detailed steady state performance analysis of variable speed wind turbine operated DFIG" Proceedings of the National Conference in POWER & ENERGY (NCPE'16) 2016, 23 March 2016, Tirunelveli, India.
- 7. Kaleeswari M, K.Vijayakumar, "Prototype development of automatic fuse failure management system for distribution network" Proceedings of the National Conference in POWER & ENERGY (NCPE'16) 2016, 23 March 2016, Tirunelveli, India.
- 8. Rajvir Kaur, K.Vijayakumar, "Genetic Algorthim Tuned PI Controller for Performance Improvement of Boost Converter" Proceedings of the National Conference in POWER & ENERGY (NCPE'16) 2016, 23 March 2016, Tirunelveli, India.
- 9. S Suman, R Katiyar, A Vijayvargiya, P Jain, R Bhakar, An optimally controlled charging scheme motivating EV owners for supporting grid stability, NPSC-2016, IIT Bhubneshwar, 19-21 December, 2016.
- Narayanan. K, Shahbaz.A. Siddiqui and Manoj Fozdar, "An Improved Islanding Detection Technique and Priority Based Load Shedding for Distribution System with multiple DGs", 19th National Power Systems Conference, IIT Bhubaneswar. 19-21 December 2016.

S. No.	Title	Author	Publisher
1.	Electromagnetic Field Theory, VII	Dr. H.P. Tiwari and	Ashirvad Publication
	Edition	Kamal Malav	Jaipur
2.	Electonic Drives And Circuit-I, IX	Dr. H.P. Tiwari and	Ashirvad Publication
	Edition	Kamal Malav	Jaipur
3.	Integerated Electronics, III Edition	Dr. H.P. Tiwari and Kamal Malav	Ashirvad Publication Jaipur

### **Books Published**



### **MEMBERSHIP OF PROFESSIONAL BODIES**

S. No.	Name of Faculty	Membership		
	Drof D. A. Curato	Senior Member, IEEE		
1.	Prof. R. A. Gupta	Fellow, Institute of Engineers (India)		
		Fellow, IETE		
		Life member, ISTE		
2.	Prof. K. R. Niazi	Senior Member, IEEE, USA		
		Member, Power Engineering Society, IEEE, USA		
		Member, Smart Grid Community, IEEE, USA		
		Life member, ISTE		
3.	Prof. Manoj Fozdar	Senior Member, IEEE		
4.	Dr. Vikas Gupta	Member, IEEE, USA Life Member of Indian Society for Technical Educator (ISTE) FIE IAENG		
5.	Dr. H.P. Tiwari	Member, IEEE, USA Life Member of Indian Society for Technical Education (ISTE) FIE IAENG		
6.	Sh. Praveen K Agrawal	Member, IEEE, USA		
7.	Dr. Rajesh Kumar	Senior Member, Institute of Electrical and Electronics Engineers (SMIEEE)		
		Fellow, Institution of Engineers (IE) India		
		Fellow, The Institution of Electronics and Telecommunication Engineers (IETE)		
		Senior Member, International Association of Computer Science and Information Technology (IACSIT)		
		Life Member Computer Sodety of India (CSI)		
		Life Member of Indian Society for Technical Education (ISTE)		
		Member, International Association of Engineers		
		Member, The IAENG Society of Artificial Intelligence and Society of Scientific Computing		
8.	Dr. Rohit Bhakar	Senior Member, IEEE USA		
		Member, IEEE PES, USA		
		Member, IEEE Smart Cities, USA		





9.	Sh. Mukesh K Shah	Member, IEEE, USA
10.	Dr. Nikhil Gupta	Member, IEEE, USA
		Member, Power Engineering Society, IEEE, USA
		Member, Smart Grid Community, IEEE, USA
		Life member, ISTE
11.	Dr. Anil Swarkar	Member, IEEE, USA
		Member, Power Engineering Society, IEEE, USA
		Member, Smart Grid Community, IEEE, USA
12.	Dr. Prerna Jain	Member, IEEE PES, USA
13.	Dr. Kusum Verma	Member, IEEE
		Life Member, IE (I) Institution of Engineers
		Life Member, ISTE (Indian Society for Technical Education)
14.	Dr. Arun Kumar	Member, IEEE USA
	Verma	Member, IEEE PES, USA
15.	Dr. Dipti Saxena	Senior Member, IEEE USA
		Member, IEEE PES, USA
16.	Dr. Vijayakumar K	Life Member of ISTE New Delhi,
		Member of IEEE
17.	Dr. Satyanarayana Neeli	IEEE



### ANY OTHER DETAILS WORTH PUBLICATION IN ANNUAL REPORT2016-17

S. No.	Name of Faculty	Perticulars
1.	Prof. R. A. Gupta	Honorary Secretary, The Institution of Engineers India Rajasthan State Centre, Jaipur. Member, Board of Academic Council, Gautam Buddha University,
		Greater Noida
2.	Prof. K. R. Niazi	Associate Editor, IET Renewable Power Generation
		Member, Board of Governer, MNIT, Jaipur (Senate Nominee)
3.	Prof. Manoj Fozdar	INTERNATIONAL BOOK CHAPTERS:
		Narayanan. K, Shahbaz.A. Siddiqui and Manoj Fozdar, "Detection and Operation of Unintentional Islands In The Presence Of Distributed Generation Units", Accepted for publication in Development of Microgrids by InTech (Indexed in ISI Web of Science's Book Citation Index (BKCI), Google Scholar, IET Inspec)
4.	Praveen K Agrawal	Best Paper Award in 5th International Conference on Power Science and Engineering (ICPSE 2016), Venice, Italy
5.	Rajesh Kumar	Associate Editor – IEEE ITeN (Industrial Electronics technology News)Associate Editor – International Journal of Bio Inspired Computing
6.	Rohit Bhakar	Secretary, IEEE PES Working Group on Distribution Network Charging and Tariff Structure
7.	Arun Kumar Verma	Guest Editor – International Journal of Power Electronics special Issue on "Power Electronics, Industrial Electronics and their applications".



### Patents filed by the department /facultya

S. No.	Patent brief detail	Status (filed/accepted)	Year
1	Rajesh Kumar: The SMART GAIT Analyzer. Patent No. 201711014157 published in The Patent Office Journal	published	2017
2.	Rajesh Kumar: Biofeedback through Electronic Goniometer. Patent No. 201711014156. published in The Patent Office Journal	published	2017
3.	Rajesh Kumar: DDRIPS- Drunkard Driving Preventive System. Patent No. 201611027413. published in The Patent Office Journal	published	2016
4.	Rajesh Kumar: A Smart Preemptive Islanding Detection And Mode Change Triggering Logic For Grid-Connected Solar PV Inverters. Patent No. 201611015180 A. published in The Patent Office Journal	published	2016
5.	Rajesh Kumar: Ortho-Daer: A Comprehensive System For Osteoarthritis Detection, Analysis And Rehabilitation Based On Efficient SEMG Signals. Patent No. 201611015179 A. published in The Patent Office Journal	published	2016
6.	Rajesh Kumar: E-Bike: Electrically Powered Multi- Utility Bicycle. Patent No. 201611015177 A. published in The Patent Office Journal	published	2016





#### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

Research Papers Published in International Journals:

- 1. Praveen Gupta , K.K. Sharma , S D Joshi ,"Fetal heart rate extraction from abdominal electrocardiograms through multivariate empirical mode decomposition" , Computers in Biology and Medicine Volume :68/121-136/2016.
- 2. Hemant Sharma, K.K. Sharma ,"An algorithm for sleep apnea detection from single-lead ECG using Hermite Basis functions", Computers in Biology and Medicine Volume :77/1-5/2016.
- 3. Tanushree Sharma, K.K. Sharma ,"QRS Complex Detection in ECG signals using the Synchrosqueezed Wavelet Transform", IETE Journal of research Volume :62 / 885-892 / 2016 ISBN: 03772063.
- 4. Nidhi Saxena, K.K. Sharma ,"Hilbert vibration decomposition based image fusion", IET Electronics Letters Volume :52/1605-1607/2016
- 5. Seema D. Yardi, Ankur Gupta, Poonam Saundriyal, Geeta Bhatt, Rishi Kant, D. Boolchandani, Shantanu Bhattacharya, "High Efficiency Coupling of Optical Fibres with SU8 Micro-droplet Using Laser Welding Process", Lasers in Manufacturing Materials ProcessingVolume:3/141-157/2016 ISBN: 2196-7229.
- 6. Soma Kumawat, M. Ravi Kumar, "Generalized optical code construction for enhanced and Modified Double Weight like codes without mapping for SAC–OCDMA systems", Optical Fiber Technology, Volume 30, July 2016, 72–80.
- U. P. Shukla, S. J. Nanda ,"Parallel social spider clustering algorithm for high dimensional datasets", Engineering Applications of Artificial Intelligence, Elsevier, Volume :56/75-90/ 2016.
- S. J. Nanda, N. Jonwal ,"Robust Nonlinear Channel Equalization using WNN trained by Symbiotic Organism Search Algorithm", Applied Soft Computing, Elsevier, Volume :57 / 197-209/2017.
- Shanky Saxena, Ritu Sharma, B.D. Pant ,"Design and Development of guided four beam cantilever type MEMS based piezoelectric energy harvester", Microsystem Technology 22 / 1-9/2016
- 10. Varshali Sharma, Ritu Sharma, "Design of hybrid photonic crystal fiber with elliptical and circular air holes analyzed for large flattened dispersion and high birefringence", Journal of nanophotonics 10/8/2016
- 11. Anup Kumar Sharma, Ritu Sharma, Ramesh Prajapati , Santosh Chaudhary ,"Effect of Different Acid Oxidation on Morphology, Dispersion and Optical Band-gap", Fullerenes, Nanotubes and Carbon Nanostructures 10/1080/2016
- 12. Shanky Saxena, Ritu Sharma, B.D. Pant ,"Dynamic Characterization of guided four beam cantilever type MEMS based Piezoelectric Energy Harvester using Laser Doppler Vibrometer, to Microsystem Technologies.", Microsystem Technology 3/14/2017.
- 13. Anup Sharma, Ritu Sharma, Upendra Chaudhary ,""Hydrogen-Acetylene Gas Ratio and Catalyst Thickness Effect on the Growth of Uniform Layer of Carbon Nanotubes", Fullerenes, Nanotubes and Carbon Nanostructures 2/12/2017.



- **MNIT JAIPUR**
- Sabiha Khan, Varsha Goyal, Ritu Sharma, Varshali Sharma, K.S.Sharma, "Investigation of the Effect of Boron and Nitrogen substitution on electronic structure of graphene", Flatchem 1/13/2017.
- 15. Sourabh Sahu; Jalil Ali; Ghanshyam Singh "Optimization of Dual-Slot Waveguide for Refractive Index Biosensor" *OpticaApplicata (PSP), vol. 48 issue 1, (2018).*
- 16. AnatoliyAndrushchak; Oleh Buryy; Zenon Hotra; Nazariy Andrushchak; Orest Sushynskyi; Ghanshyam Singh; Vijay Janyani; Ivan Kityk "The General Method of Extreme Surfaces for Geometry Optimization of the Linear Electro-Optic Effect on Example of LiNbO3:MgO Crystals" Accepted to be published with Applied Optics submission (OSA Publication, IF: 1.649), June 2017.
- 17. Sourabh Sahu; Jalil Ali; Ghanshyam Singh "Refractive index biosensor using sidewall gratings in dual-slot waveguide" *Optics Communications (Elsevier), Volume 402, Pages 408–412, 1 November 2017.*
- Ashwani Kumar Sharma, Inaki Garcia, Asier Perallos Ruiz, Deepak Bhatnagar, Ghanshyam Singh "Magnetic-field forming using planar multi-coil antenna to generate orthogonal Hfield components" *IEEE Transactions on Antennas and Propagation, Vol: 65, Issue: 6, ISSN(print): 0018-926X, ISSN(online): 1558-2221, DOI: 10.1109/TAP.2017.2695009, June* 2017.
- 19. Sugak, Dmytro; Syvorotka, Ihor; Buryy, Oleh; Yakhnevych, Uliana; Solskii, Ivan; Martynyuk, Natalia; Suhak, Yuriy; Suchocki, Andrzej; Zhydachevskii, Yaroslav; Jakiela, Rafal; Ubizskii, Serhii; Singh, Ghanshyam; Janyani, Vijai "Spatial distribution of optical coloration in single crystalline LiNbO3 after high-temperature H2/air treatments" *Optical Materials (IF: 2.023), 70, pp. 106-115, http://dx.doi.org/10.1016/j.optmat.2017.05.022 0925-3467/© 2017 Published by Elsevier B.V. (2017).*
- 20. Monika Mathur, S. K. Bhatnagar, Ghanshyam Singh "A Compact Coplanar Waveguide Fed Wideband Monopole Antenna for RF Energy Harvesting Applications", *AEU–International Journal of Electronics and Communications (Elsevier), May 2017.*
- 21. Sandeep Vyas, Takasumi Tanabe, Manish Tiwari, Ghanshyam Singh "A Chalcogenide Photonic Crystal Fiber for Ultraflat Mid-infrared Supercontinuum Generation" *Chinese Optics Letters* 14(12), 123201, pp 1-5, 1671-7694, December 2016.
- 22. Ritu Sharma, Upendra Chaudhary, Ghanshyam Singh "A review on Surface Plasmon resonance and its application as bio-sensing element" *J. BiosensBioelectron (JBSBE), ISSN:* 2155-6210, vol. 7, issue 2 (Suppl), DOI: 10.4172/2155-6210.C1.027, August 2016..
- 23. SandeepVyas, Takasumi Tanabe, Manish Tiwari, Ghanshyam Singh "Ultraflat broadband supercontinuum in highly nonlinear Ge11.5As24Se64.5 photonic crystal fibres" *Ukr. J. Phys. Opt. 17, issue 3, pp. 132-139, ISSN: 1816-2002, DOI: 10.3116/16091833/17/3/ 132/2016, August 2016.*
- 24. Abhishek Godbole, Prathmesh P. Dali, Vijay Janyani, Takasumi Tanabe, Ghanshyam Singh "All Optical Logic Gates Using Si3N4 Microring Resonators", *IEEE Journal of Selected Topics in Quantum Electronics on Silicon Photonics (JSTQE-SP), Vol. PP, issue 99, ISSN:* 1077-260X, DOI: 10.1109/JSTQE.2016.2593278, July 19th, 2016.
- 25. Shashikant Sharma; Bernhard C. Bayer; Viera Skakalova; Ghanshyam Singh; ChinnamuthanPeriasamy "Structural, Electrical and UV Detection Properties of ZnO/Si Heterojunction Diodes" *IEEE Transactions on Electron Devices*, 0018-9383, Vol. 63, Issue



5, PP. 1949 - 1956, DOI: 10.1109/TED.2016.2540721, March 24th, 2016.

- 26. Ryutaro Eguchi, Moriyama, Ghanshyam Singh, Hiroyuki Tsuda "Amplitude Trimming of Si Waveguides Using Phase Change Material" *IEICE Electronics Express, Vol. 13, Issue 6, ISSN: 1349-2543 DOI: 10.1587/elex.13.20160107, March 25th 2016.*
- 27. Lintu Rajan, C.Periasamy, Vijayakumar.K, and Vineet Sahula ,"An Investigation on Electrical and Hydrogen Sensing Characteristics of RF Sputtered ZnO Thin-Film With Palladium Schottky Contacts", IEEE Sensors Journal (SCI, Impact Factor: 1.889) Volume :17/14-21/2017 ISBN: 1530-437X
- 28. Praveen K. Jain, Umesh Chand, C. Periasamy, Mohammad Salim ,"Switching Characteristics in TiO2/ZnO Double Layer Resistive Switching Memory Device", Materials Research Express (IMPACT FACTOR:0.968) (Accepted for Publication) Volume :0/1-6/2017.
- 29. Shashikant Sharma, Bernhard C. Bayer, Viera Skakalova, Ghanshyam Singh and C. Periasamy ,"Structural, Electrical and UV Detection Properties of ZnO/Si Heterojunction Diodes", IEEE Transactions on Electron Devices (SCI, Impact factor:2.472) Volume:1/1-8 /2016 ISBN: 0018-9383.
- 30. Shaivalini Singh, Yogesh Kumar, Hemant Kumar, Sumit Vyas, Chinnamuthan Periasamy, Parthasarathi Chakrabarti, SatyabrataJit, and Si-Hyun Park, "A study of hydrothermally grown ZnOnanorod-based metal-semiconductor-metal UV detectors on glass substrates", Nanomaterials and Nanotechnology (SCI, Impact Factor: 1.109) Volume:7/1-5/2017.
- 31. Niketa Sharma, Sandeep Kumar Dhakad, C. Periasamy and Nidhi Chaturvedi ,"Optimization of Ohmic Contacts on Thick and Thin AlGaN/GaN HEMTs Structures", Superlattices and Microstructures (Elsevier)(Accepted for Publications) Volume :1 / 1 / 2017.

#### List of Papers Presented at International Conferences:

- Sanyog Rawat, K.K. Sharma, "Design of Modified Pentagonal Patch Antenna on Defective Ground for Wi-Max/WLAN Application" 2<sup>nd</sup> International Conference on Emerging Technologies: Micro to Nano 2015 (ETMN-2015) by American Institute of Physics at Jaipur //2016
- 2. Ravi Kumar Goyal, K.K. Sharma ,"T-Slotted Microstrip Antenna for 5G Wi-Fi Network" 5<sup>th</sup> International Conference on Advances in Computing, Communications and Informatics (ICACCI 2016) by IEEE at Jaipur/2684-2687/2016
- 3. Hemant Sharma, K.K. Sharma ,"Application of Iterated Hilbert Transform for Deriving Respiratory Signal From SingleLead ECG" INDIA INTERNATIONAL CONFERENCE on Information Processing by DTU, Delhi at Delhi//2016
- 4. Tanushree, K.K. Sharma ," Power Line Interference Removal From ECG Signals Using Wavelet Transform Based Component-Retrieval" 2016 International Conference on Advances in Computing, Communications and Informatics (ICACCI 2016) by IEEE Explore at LNMIIT Jaipur/95-101/2016.
- 5. Soma Kumawat, M. Ravi Kumar, "A New Technique to Construct Zero Cross Correlation Code for SAC-OCDMA", 1st International conference on Optical and Wireless Technologies, MNIT, Jaipur, 18-19 March 2017





- 6. Ishwar Kumawat, S. J. Nanda, M. Ravi Kumar, "Positioning LED Panel for Uniform Illuminance in Indoor VLC System Using Whale Optimization", 1st International conference on Optical and Wireless Technologies, MNIT, Jaipur, 18-19 March 2017
- 7. C. Sahu and N. Agrawal, "Mixed-Mode Simulation of Common Emitter Amplifier Design Using Bipolar Charge Plasma Transistor," 2016 IEEE International Symposium on Nanoelectronic and Information Systems (iNIS), Gwalior, 2016, pp. 149-154.
- 8. S. Majumdar, C. Sahu and D. Biswas, "Fabrication of E-mode InGaN/AlGaN/GaN HEMT using FIB based lithography," 2017 IEEE Electron Devices Technology and Manufacturing Conference (EDTM), Toyama, 2017, pp. 175-177.
- 9. Electrical and UV Detection Properties of ZnO Thin Film Based Schottky Contacts Deposited by RF Magnetron Sputtering.
- 10. Vikas, S. J. Nanda ,"Multi-Objective Moth Flame Optimization" **5th IEEE International Conference on Advances in Computing, Communication and Informatics (IEEE-ICACCI-2016)** at LMNIT JAIPUR/2470-2476/2016.
- U. P. Shukla, S. J. Nanda ,"Cluster Analysis of Evolving Data Streams Using Centroid Initialization Methods" 3rd IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics Engineering (IEEE-UPCON 2016) at Banaras Hindu University (IIT-BHU), Varanasi, India/624-629/2016
- R. Ratnakumar, S. J. Nanda, "A FSM Based Approach for Efficient Implementation of K-Means Algorithm" 20th IEEE International Symposium on VLSI Design and Test (IEEE-VDAT 2016) at IIT Guwahati/1-6/2016
- I. R. Kumawat, S. J. Nanda and R. K. Maddila, "Positioning LED panel for uniform illuminance in Indoor VLC system using whale optimization" Springer International conference on Optical and Wireless Technologies (OWT-2017) at MNIT Jaipur /1-5/2017.
- R. Ramesh, Ritu Sharma ,"FFT Implementation on FPGA With Different Adders", Information, Communication and Computing Technology(ICICCT-2016) by JIMS at New Delhi 14-May to 15-May, 2016
- 15 Komal Swami, Ritu Sharma ,"Performance Improvement in Sense Amplifier Flip Flop Using 32 Nm CNTFET", International Conference on Recent Trends in Engineering and Material Sciences ICEMS-2016 by Jaipur National University at JNU 18 to 19 March, 2016
- Girraj Sharma, Ritu Sharma ,"Cooperative Spectrum Sensing With SLS and Transmit Diversity in Cognitive Radio Networks" ,International Conference on Recent Trends in Engineering and Material Sciences ICEMS-2016 by Jaipur National University at Jaipur 17to 19 March, 2016
- 17. Upendra Chaudhary, Ritu Sharma, Ghanshyam Singh ,"A Review on Surface Plasmon and Its Application as Biosensing Element" ,International Conference on Bioelectronics and Biosensor-16 by Euro Biosensor at Valencia, Spain 30-June to 02-July, 2016
- Komal Swami, Ritu Sharma, "Implementation of a Modified Low Power D Flip Flop Using Carbon Nanotube Field Effect Transistors (CNFET)", International Conference on Microelectronics, Communication and Computation (ICMCC-2016) by ISSRD Scientific Research and Development at San Diego Virtual Participation 24 to 25September, 2016.



- 19. Ohitash Garwal, Varshali Sharma, Ritu Sharma, "Design and Modelling of Diaphragm Type MEMS Based Capacitive Pressure Sensor for Harsh Environment", International Conference on Recent Trends in Engineering and Material Sciences ICEMS-2016 by Jaipur National University at Jaipur 17-March to 19-March, 2016.
- 20. Amritveer Kaur, Julie Devi, Ritu Sharma, Varshali Sharma, Santosh Chaudhary ,"Design of Octagonal and Decagonal Lattice Photonic Crystal Fiber for Achieving Ultra Low Flattened Dispersion", International Conference on Optical and Wireless Communication Technology by Springer at MNIT Jaipur 18 to 19 March, 2017.
- 21. Lalit Kumar Dusad, Ritu Sharma ,"Synthesis of Silicon Nanowire Array by Wet Etching Process and Their Characterization" ,International Conference on Quality, Productivity, Reliability, Optimization and Modelling (ICQPROM-2017) by Manav Rachna International University at New Delhi 05 to 07 January, 2017.
- 22. Julie Devi, Amritveer Kaur, Ritu Sharma, Varshali Sharma, Santosh Chaudhary ,"Design and Analysis of Spiral Photonic Crystal Fiber Giving Ultra Flattened Dispersion for C+L+U Band", International Conference on Optical and Wireless Communication Technology by Springer at MNIT Jaiput 18 to 19 April, 2017.
- 23. D Sugak, I Syvorotka, O Buryy, U Yachnevych, I Solskii, N Martynyuk, Yu Suhak, G Singh, V Janyani and S. Ubizskii "Spatial distribution of LiNbO3 single crystals optical properties changes after redox high-temperature treatment" *IOP Conf. Ser.: Mater. Sci. Eng. 169* (012019), DOI: 10.1088/1757-899X/169/1/012019 (2017).
- 24. Sourabh Sahu, Ghanshyam Singh "Modeling of Phase Shift Bragg Grating Biosensor for Non Invasive Detection of Blood Components" *IEEE International Conference, ICRAIE-2016, Jaipur, India, December 23–25, 2016, IEEE Xplore, Print ISBN: 5090-2806, DOI: 10.1109/ICRAIE.2016.7939565, June 2017.*
- 25. Monika Mathur, Abhijat Vats, Ghanshyam Singh, S. K. Bhatnagar "The Array Structure of 2x2 Coplanar Monopole Antenna with Wilkinson Power Combiner for RF Energy Harvesting Application" *IEEE International Conference ICRAIE-2016, Jaipur, India, December 23–25, 2016, IEEE Xplore, Print ISBN: 5090-2806,DOI: 10.1109/ICRAIE.2016.7939565, June 2017.*
- 26. M. K. Gupta, G. Singh, "2×40 Gbps WDM PON Long Haul system using FBG and Dicode" IEEE International Conference, WRAP-2015, IISC Bangalore, India,16-17 Dec. 2015, IEEE Xplore Digital LibraryDOI: 10.1109/WRAP.2015.7806001, 05 January 2017.
- 27. H. Kumar, V. Janyani, B. Oleh, U. Serhij, S. Dmytro, and G. Singh, "Ring Resonator based Optical Add Drop Multiplexer Using Lithium Niobate on Insulator Channel Waveguides," in 13<sup>th</sup> International Conference on Fiber Optics and Photonics, OSA Technical Digest (online), Optical Society of America, paper W3A.15, ISBN: 978-1-943580-22-4, DOI: 10.1364/PHOTONICS.2016.Th3A.60, (2016).
- 28. S. Sahu, K. V. Kozadaev, and G. Singh, "Michelson Interferometer Based Refractive Index Biosensor," in 13<sup>th</sup> International Conference on Fiber Optics and Photonics, OSA Technical Digest (online), Optical Society of America, paper Th3A.60, ISBN: 978-1-943580-22-4, DOI: 10.1364/PHOTONICS.2016.Th3A.60, (2016).
- 29. Sandeep Vyas, Takasumi Tanabe, M. Tiwari, Ghanshyam Singh "Mid-infrared supercontinuum generation in Ge11.5As24Se64.5 based chalcogenide photonic crystal fiber" *IEEE Xplore Digital Library, ISBN: 978-1-5090-2029-4, USB-ISBN: 978-1-5090-*





2028-7, pp. 1-5, DOI: 10.1109/ICACCI.2016.7732436, Nov. 2016.

- 30. Monika Mathur, Ankit Agarwal, Ghanshyam Singh, S. K. Bhatnagar "A Novel Design Module of RF Energy Harvesting for Powering the Low Power Electronics Circuits" *AICTC* '16, August 12-13, 2016, Bikaner, India © 2016 ACM. ISBN 978-1-4503-4213-1/16/08, DOI: http://dx.doi.org/10.1145/2979779.2979847 (2016).
- 31. Ghanshyam Singh, Manish Tiwari "Photonic Integrated Devices and Systems: Technology for next Generation Telecom Networks" SPIE Science 3T Forum Meet on Telecommunication: Theory and Technologies, Samara (Russia), PP. 12, ISBN: 978-5-9907911-5-2, November 22-24, 2016.
- 32. Harsh Kumar, Vijay Janyani, Buryy Oleh, UbizskiiSerhij, SugakDmytro, Ghanshyam Singh "Optical Ring Resonator Based Notch Filter Using Lithium Niobate on Insulator (LNOI)" *COMSOL International Conference on multiphysics simulation and application design, Bangalore, October 20-21, 2016, https://www.comsol.co.in/conference2016/downloadabstract/3878, (2016).*
- 33. Harsh Kumar, Laxman Kumar, Vijay Janyani, BuryyOleh, UbizskiiSerhij, Ghanshyam Singh "Gray to Binary Code Converter Using Ti-indiffused Lithium Niobate Based Mach-Zehnder Interferometer" Advances in Optical Science and Engineering, Springer proceedings of the 3rd International Conference, (Optronix-2016), Kolkata, August 18-20, ISBN 987-981-10-3907-2, May 2017.
- 34. Monika Mathur, Ghanshyam Singh, S. K. Bhatnagar, Swati Swami, Abhijat Vats "Transformation of Design Formulae for Feed Line of Triangular Microstrip Antenna, ICCS 2015", *AIP Conf. Proc. 1715*, 020035 (1-5); http://dx.doi.org/10.1063/1.4942717, 2016.
- 35. Abhishek Godbole, Prathmesh P. Dali, G. Singh, Takasumi Tanabe, "Microring Resonator Based All Optical XOR and XNOR Logic Gates", IEEE Xplore Digital Library, page(s): 540-543, DOI: 10.1109/ICCTICT.2016.7514639, 2016.
- 36. Sandeep Vyas; Takasumi Tanabe; Ghanshyam Singh; Manish Tiwari "Broadband supercontinuum generation and Raman response in Ge11.5As24Se64.5 based chalcogenide photonic crystal fiber" *IEEE Xplore Digital Library, page(s): 607-611, DOI: 10.1109/ICCTICT.2016.7514651, 2016.*
- 37. G. Sharma and L. Bhargava, "CMOS-memristor inverter circuit design and analysis using Cadence Virtuoso," 2016 International Conference on Recent Advances and Innovations in Engineering (ICRAIE), Jaipur, 2016, pp. 1-5. doi: 10.1109/ICRAIE.2016.7939571
- 38. Y. Gupta, L. Bhargava "Design Trade-Off Analysis of STT-MRAM based Last Level Cache Memory". IEEE 3rd International Conference on Emerging Electronics (ICEE 2016) IIT Bombay, Poster Presentation.
- 39. Lintu Rajan, C.Periasamy, and Vineet Sahula "Noble Metal Schottky Contacts on Nanocrystalline RF Sputtered ZnO Thin Film" IEEE CONFERENCE ON EMERGING DEVICES AND SMART SYSTEMS – ICEDSS 2017. 03 to 04 Mar 2017, Mahendra Engineering College, NAMAKKAL India 637503
- 40. TarunVarma, C. Periasamy and D. Boolchandani "Electrical and UV Detection Properties of ZnO Thin Film Based Schottky Contacts Deposited by RF Magnetron Sputtering" IEEE CONFERENCE ON EMERGING DEVICES AND SMART SYSTEMS – ICEDSS 2017.
  03 to 04 Mar 2017, Mahendra Engineering College, NAMAKKAL India 637503.



41. Niketa Sharma, Saurabh Bhardwaj, Sandeep Dhakad, C. Periasamy, and Nidhi Chaturvedi ,"Ar+ Based Ion Implantation and Ar-RIE of Thin and Thick AlGaN/GaN HEMT" WOCSDICE - 2016 by Conferences at Portugal//2016

#### List of Papers Presented at National Conferences :

- 1. Harsh Kumar, Vijay Janyani, Buryy Oleh, Ghanshyam Singh "A review of surface geometric techniques suitable for Lithium Niobate based all optical devices" *Proc. of OSA Young Student Congress on Photonic Technologies, OSA\_YSC\_107, PP. 18-21, April 17<sup>th</sup>, 2016.*
- 2. Purva Bansal, Kamlendra Awasthi, Lokesh Kumar Jangir, Ghanshyam Singh "Synthesis and optical charateristics of rare earth doped ZnO nanopartiles" Proc. of OSA Young Student Congress, OSA\_YSC\_108, PP. 21-24, April 17th, 2016.
- 3. Manish Salunkhe, Ghanshyam Singh "Design of small sized self-holding optical switch using phase change material" *Proc. of OSA Young Student Congress, OSA\_YSC\_109, PP.* 24-26, April 17<sup>th</sup>, 2016.
- 4. Anoop Singh, Sourabh Sahu, Ghanshyam Singh "Electro-optic asymmetric Mach-Zehnder modulator designed using organic polymer" *Proc. of OSA Young Student Congress, OSA\_YSC\_111, PP. 29-32, April 17<sup>th</sup>, 2016.*
- 5. Manish Salunkhe, S. Kalra, H. Tsuda, V. Janyani, G. Singh "Design and analysis of ultracompact optical switch using phase changing material" IETE National conference, MNIT Jaipur, ICTHC\_156, pp. 20, March 5<sup>th</sup>, 2016.
- 6. Deepak Singh, M. K. Gupta, G. Singh "Mitigation of Raman cross-talk in co-existed GPON and XGPON" *IETE National conference, MNIT Jaipur, ICTHC\_156, pp. 19, March 5<sup>th</sup>, 2016.*
- 7. Harsh Kuma, V. Janyani, Buryy Oleh, G. Singh "Study of optical properties of Magnesium doped Lithium Niobate: A review" *IETE National conference, MNIT Jaipur, ICTHC\_156, pp. 16, March 5th, 2016.*
- 8. Sourabh Sahu, G. Singh "Biosensor in Mid-IR region on SON slot waveguide" *IETE National conference, MNIT Jaipur, ICTHC\_156, pp. 16, March 5th, 2016.*
- 9. Anoop Singh, S. Sahu, G. Singh "Design and analyses of DR1/PMMA polymer based asymmetric MZM" *IETE National conference, MNIT Jaipur, ICTHC\_156, pp. 15, March 5th, 2016.*
- 10. Amit Kumar Garg, M. K. Gupta, G. Singh, V. Janyani "Flexible hybrid WDM-TDM PON architecture" *IETE National conference, MNIT Jaipur, ICTHC\_156, pp. 13, March 5<sup>th</sup>, 2016.*
- 11. Shashikant Gupta, B. C. Bayer, V. Skakalova, G. Singh, C. Periasamy "Design and development of piezoelectric nanogenerator based ZnOnanoneedles" *IETE National conference, MNIT Jaipur, ICTHC\_156, pp. 10, March 5<sup>th</sup>, 2016.*
- 12. Ashish Kumar Ghunawat, H. Kohli, S. Pareek, G. Singh "Review paper on highly nonlinear fiber and applications" *IETE National conference, MNIT Jaipur, ICTHC\_156, pp. 20, March 5<sup>th</sup>, 2016.*



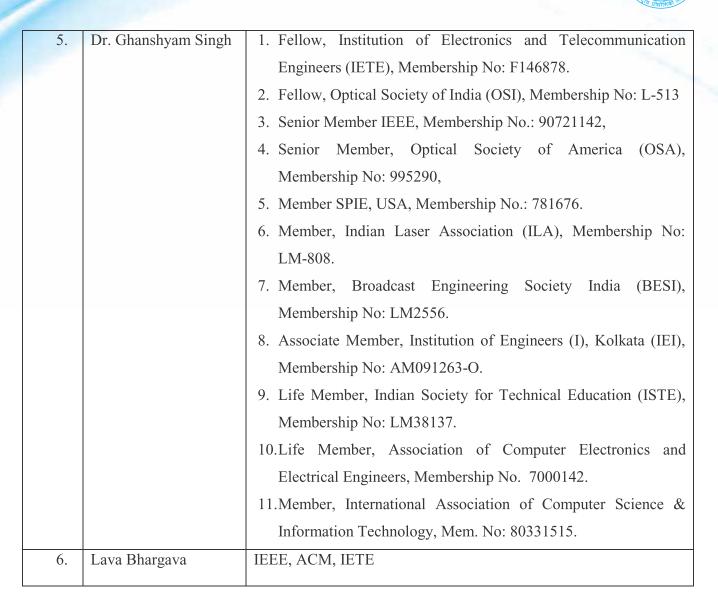


#### **Books Published**

S. No.	Title	Author	Publisher
1.	Book Name : Advances in Intelligent Systems and Computing, Springer, ISSN: 2194-5357, Vol. 547, pp.48-58, 2016. "Book Chapter" Optimal Path Determination in a Survivable Virtual Topology of an Optical Network using Ant Colony Optimization	K. Kumari, S. J. Nanda, R. K. Maddila	Springer
2.	Book on proc. of OSA sponsored International conference on Recent Cognizance in Wireless Communication & Image Processing (eBook ISBN: 978-81-322-2638-3, Hardcover ISBN: 978-81-322-2636-9, 2016)		Springer publication (India)
3.	ZnO Nanostructures-Based Devices for Electronic and Photonic Applications	P.Chakrabarti, C.PeriasamyShaivalini Singh	Encyclopedia of Nanoscience and Nanotechnology ISBN:ISBN: 1-58883- 001-2

## MEMBERSHIP OF PROFESSIONAL BODIES

S. No.	Name of Faculty	Membership
1.	D.Boolchandani	Senior Member IEEE
2.	Dr. M. Ravi Kumar	IEEE, OSA, OSI
3.	Dr. Chitrakant	IEEE
4.	TarunVarma	IEEE



#### Patents filed by the department /faculty

S. No.	Patent brief detail	Status (filed/accepted)	Year
1	A NOVEL APPROACH FOR FOCUSING OF	Filed	2016
	ELECTRON BEAM IN A MULTI BEAM		
	KLYSTRON (Faculty: Vijay Janyani)		





#### **DEPARTMENT OF HUMANITIES & SOCIAL STUDIES**

#### **Research Papers Published in International Journals:**

- 1. Tandon, Nupur. "Integrating Technology to Bring in creativity in the Language Classroom", *Teaching English from Classes to Masses*, ISBN 978-1-4438-9772-3, Cambridge Scholars Publishing, Newcastle upon Tyne, UK, 2016, 123-129.
- 2. Vijay, Kalpna and Preeti Bhatt. "Divakaruni's Queen of Dreams: Terrorism and Tolerance." *The Criterion: An International Journal In English.* 7.3 (June 2016): 36-40.
- 3. Choudhary, Boola & Sharma, Dipti (2016), "Decentralized Solar Power for Rural Electrification in India: A Review" published in *International Journal of Latest Technology in Engineering, Management & Sciences* Vol. V Issue VIII, August 2016: 28-33

#### **Research Papers Published in National Journals:**

- Vijay, Kalpna and Preeti Bhatt. "Crisis of Identity: a Study of Anita Desai and Divakaruni's Novels." Proceedings of the *National Conference on Applied Science and Humanities in Engineering (ASHE 2016)* from 9-10 September 2016, organized by Deptt. of Applied Science and Humanities, Jaipur Engineering College and Research Centre, Jaipur. Jaipur: Kino, 2016: 28-36.
- 2. Sharma, Amit Kumar & Sharma, Dipti (2017). "The Indian Electricity Sector: An Overview of Generation Options", *Sustainable Development and Inclusive Growth: Prospects and Challenges* 'published in the conference proceedings of the 37th Annual Conference of the Rajasthan Economic Association, January, 2017: 6-13

#### List of Papers Presented at International Conferences:

- 1. Dr. Vibhuti Singh Shekhawat attended an International Seminar on "Aadiwasi Tribes of India: Challenges & Possibilities", on 09-10 August, 2016, Department of Political Science, JNVU of Jodhpur, Rajasthan, participated and presented a paper entitled "Nexalite Teror-A Non Trident Hindu Variant".
- 2. Preeti Bhatt. "Fantasy and Magic Realism in Chitra Banerjee Divakaruni's The Mistress of Spices and Queen of Dreams." at the International Conference on "The Past, Present and Post 'Diaspora': New Directions in Diaspora Studies" organized by the University of Mumbai from 18-20 November 2016.
- 3. Preeti Bhatt. "Skinning them Alive: Objects and Objectification in Alice Munro's 'Vandals'"at the *XIX International Conference - "Materialities: Objects, Matter, Things*" organized by the Forum on Contemporary Theory, Baroda at Dehradun from 18-21 December 2016.
- 4. Preeti Bhatt. "Teaching Postmodern Re-Visionary Fiction" in the 10th International Conference on Psychology, Language and Teaching (ICPLT) organized by Global Psychology and Language Research Association at Dubai from Feb. 20-21, 2017.
- 5. Preeti Bhatt and Kalpna Vijay. "Identity Crisis in Anita Desai's Bye-Bye Blackbird" the International Conference on "Peaceful and Prosperous South Asia -Opportunities and Challenges" ICSA 2017 organised by Jaypee Institute of Information Technology, Noida from 27-29 March, 2017



6. Boola Chaudhary & Dipti Sharma."Socio-economic Assessment of Off-grid Solar Technology Based Rural Electrification in Upla Kota, Rajasthan India", presented in the International Conference on Engaging India and Canada: Perspectives on Sustainability held at New Delhi during 11-12 May 2017 organised by Shastri Indo Canadian Institute New Delhi

#### List of Papers Presented at National Conferences

- 1. Tandon, Nupur & Singh, Ambika. "The Significance of Teaching Literature at Technical Institutes: For Drama Plays a Role" at the National Conference on 'Globalisation, Communication, Technology and the Teaching of English', SKIT Jaipur, 24-25 March, 2017.
- 2. Dr. Vibhuti Singh Shekhawat: Attended as resource person and *Discussant in a Session on Transnational Crime, Corruption and Governance* on September 25th during the Fourth Northern Region Social Science Congress, at Jiwaji University, Gwalior organized during September 23-25, 2016 and presented 'Roots of Alienation in North East: Causality and Consequence'
- 3. Preeti Bhatt. "Crisis of Identity: a Study of Anita Desai and Divakaruni's Novels", National Conference on Applied Science and Humanities in Engineering (ASHE 2016) from 9-10 September 2016, organized by Deptt. of Applied Science and Humanities, Jaipur Engineering College and Research Centre, Jaipur.

#### **Books Published**

S. No.	Title	Author	Publisher
	Chief Ministers of Rajasthan: Shastri to Raje	Vibhuti Singh Shekhawat	Raj Publishing House Jaipur

#### FACULTY MEMBERS WHO COMPLETED PH. D. /M.TECH DURING THE YEAR 2016-17

#### MEMBERSHIP OF PROFESSIONAL BODIES

S. No.	Name of Faculty	Membership
1.	Dr. V.S.Shekhawat	Life Member,IIPA
2.	Dr. V.S.Shekhawat	Life Member, IPSA
3.	Dr. Nupur Tandon	Executive Member, English Language Teachers' Association of India (ELTAI), Jaipur Chapter
4.	Dr. Nupur Tandon	Life Member, Rajasthan University Women's Association





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	5.	Dr Preeti Bhatt	1.	Executive Member, Jaipur Chapter, English Language Teachers' Association of India
			2.	Life Member, Forum on Contemporary Theory, Baroda
			3.	Member, Review Editorial Board, Gnosis: An International Journal of Language and Literature
			4.	Life Member, Indo-German Society, Jaipur
	6.	Dr. Dipti Sharma	Life	e Member: Indian Economic Association
			Life	e Member: Rajasthan Economic Association

## ANY OTHER DETAILS WORTH PUBLICATION IN ANNUAL REPORT 2016-17

S. No.	Name of Faculty	Particulars	
1.	Vibhuti Singh Shekhawat	Naxalite Terror-A Non Trident Hindu Variant Published in "Aadiwasi Tribes of India" edited by Dr. Janak Singh Meena in 2017.	
2.	Dr. Nupur Tandon	Member of Committee to organize Vigilance Awareness Week at MNIT Jaipur from 31-10 to 5-11-2017.	
3.	Dr Preeti Bhatt	Reviewed two papers in June and Dec. 2016 for Sage Open – an international peer reviewed open access journal for the Social and Behavioral Sciences and Humanities	
4.	Dr Preeti Bhatt and Dr Meenakshi Tripathi	A Health Awareness Program for Underprivileged Women was organised by Indian Institute of Information Technology, Kota (Mentor Institute: MNIT Jaipur) on 17 Sept. 2016 in the Seminar Hall, Computer Science Engineering Department. 75 women and girls from Jhalana Kachchi Basti participated in the Camp.	
5.	Dr. Preeti Bhatt and Dr. Raj Kumar Joshi	A Medical and Fitness Camp was organized by the Unnat Bharat Abhiyan team of MNIT Jaipur at village Jeerota, District Jaipur on 25 March 2017. During the camp, health care, medical advice and free medicines were provided to approx. 400 residents of Jeerota village of Jaipur District.	



6.	Dr Preeti Bhatt	SPIC MACAY Society, MNIT Jaipur, organized Mohan Veena		
	and Mr Nischal	Recital by Padma Shri and Grammy Award winner Pandit Vishwa		
	Jain, Faculty	Mohan Bhatt on 8 November 2016 at Mini Auditorium.		
	Advisors, SPIC			
	MACAY Society,			
	MNIT Jaipur			
	-			
7.	Dr Preeti Bhatt	SPIC MACAY Society, MNIT Jaipur, organized the musical event		
	and Mr Nischal	Flute Performance by Pandit Rajendra Prasanna on 10 November		
	Jain	2016 at Mini Auditorium.		
8.	Dr Preeti Bhatt	SPIC MACAY Society, MNIT Jaipur, organized the musical event		
	and Mr Nischal	Sitar Recital by Pandit Kushal Das on 10 January 2017 at Mini		
	Jain	Auditorium.		



#### **DEPARTMENT OF MATHEMATICS**

#### **Research Papers Published in International Journals:**

- 1. Manish Bansal and Rashmi Jain(2017) A Study Of Unified Fractional Integral Operators Involving S-Generalized Gauss's Hypergeometric Function As Its Kernel, *Palestine Journal of Mathematics*, 6(1), 142-152. (UGC List)
- 2. Manish Bansal and Rashmi Jain(2016) Certain New Results Of The S-Generalized Gauss Hypergeometric Function Transform, *South East Asian Journal of Math. & Math. Sci.*, 12(2), 115-124. (UGC List)
- 3. Priyanka Harjule and Rashmi Jain(2016) A General Volterra Type Integral Equation Associated With An Integral Operator Involving The Product Of General Class Of Polynomials And Multivariable H-Function In The Kernel, *Journal Of Rajasthan Academy Of Physical Sciences*, 15(3), 183-190. (UGC List)
- 4. Manish Bansal And Rashmi Jain(2016)A nalytical Solution Of Bagley Torvik Equation By Generalize Differential Transform, *International Journal Of Pure And Applied Mathematics*, 110(2), 265-273. (Scopus)
- 5. Manish Bansal And Rashmi Jain(2016) Composition Formulae For Unified Fractional Integral Operators, *European Journal Of Advances In Engineering And Technology*, 3(4), 1-6. (UGC List)
- 6. V Mathur, K Khandelwal, Exact Solutions for the Flow of Fractional Maxwell Fluid in Pipe-Like Domains, Advances in Applied Mathematics and Mechanics, 2016 Volume 8, Issue 5, Pages 784-794.
- 7. V Mathur, K Khandelwal, Flow of Fractional Maxwell Fluid in Oscillating Pipe-Like Domains, 2017, International Journal of Applied and Computational Mathematics, 3 (2), 841-858.
- 8. **Agarwal Ritu,** Goswami M.P., Agarwal R. P. (2017), A study of Mellin transform of fractional operators in bicomplex space and applications, Journal of Fractional Calculus and Applications, 8(2), pp. 211-226.
- 9. **Agarwal Ritu**, Sonal Jain and R. P. Agarwal (2017), Analytic solution of generalized space time fractional reaction diffusion equation, Fractional Differential Calculus, 7(2), 169-184.
- 10. **Agarwal Ritu**, Goswami M.P., Agarwal R. P. (2017) Mellin transform in bicomplex space and its application, Studia Universitatis Babes-Bolyai Mathematica, 62(2), 217-232.
- Agarwal Ritu, Goswami M.P., Agarwal R.P. and Venkataratnam K.K., Dumitru B. (2017), Solution of Maxwell's Wave Equations in Bicomplex Space, Romanian Journal of Physics, 62(5-6), Article 115.
- 12. Rekha Srivastavaa, **Ritu Agarwal**, Sonal Jain (2017) Family of the Incomplete Hypergeometric Functions and Associated Integral Transform and Fractional Derivative Formulas, Filomat, 31:1, 125140.
- 13. M. A. Pathan, **Ritu Agarwal**, and Sonal Jain (2017), A UNIFIED STUDY OF ORTHOGONAL POLYNOMIALS VIA LIE ALGEBRA, *Reports on Mathematical Physics*, 79(1), 1-11.



- 14. H. M. Srivastava, Ritu Agarwal, and Sonal Jain (2017), Integral transform and fractional derivative formulas involving the extended generalized hypergeometric functions and probability distributions, Math. Meth. Appl. Sci., 40(1), 255–273.
- 15. L. Hola and Varun Jindal, On graph and fine topologies, *Topology Proceedings*, 49: 65-73, 2017.

#### List of Papers Presented at International Conferences:

1. Presented paper entitled 'On unified infinite integrals involving *H*-function *S* u/v and polynomial', by Nidhi Jolly and Rashmi Jain, in the International Conference on Special Functions and Applications(ICSFA)-2016 held in Jamia Millia Islamia, New Delhi, same is accepted for publication in the Journal of Indian Academy of Mathematics.

#### MEMBERSHIP OF PROFESSIONAL BODIES

S. No.	Name of Faculty	Membership	
1.	Dr. Ritu Agarwal	Life member, Gwalior Academy of Mathematics	
2.	Dr. Ritu Agarwal	IEEE, Women	
3.	Dr. Ritu Agarwal	Associate Member, The Mathematics Consortium	

#### ANY OTHER DETAILS WORTH PUBLICATION IN ANNUAL REPORT 2016-17

S. No.	Name of Faculty	Perticulars
1.	Dr. Varun Jindal	Twice visited (May 16-25, 2016 and October 3-6, 2016), Department of Mathematics, IIT Delhi on an invitation of Prof. Subiman Kundu to do joint research with him.



#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Research Papers Published in International Journals:**

- 1. Prakash, S., Soni, G. and Rathore, A.P.S. (201X), "Embedding Risk in Closed-Loop Supply Chain Network Design: Case of a Hospital Furniture Manufacturer", *Journal of Modelling in Management. (Accepted on 14-Aug-2016)*
- 2. Prakash, S., Soni, G. and Rathore, A.P.S. (201X), "Multi-echelon Closed-Loop Supply Chain Network Design and Configuration under Supply Risks and Logistics Risks", *International Journal of Logistics Systems and Management. (Accepted on 23-Jul-2016)*
- 3. Panwar, A., Nepal, B., Jain, R., Rathore, A.P.S. and Lyons, A. (2017), "Understanding the linkages between lean practices and performance improvements in Indian process industries", *Industrial Management & Data Systems*, Vol. 117(2), pp. 346-364.
- 4. Prakash, S., Soni, G., Rathore, A.P.S. and Singh, S. (2017), "Risk analysis and mitigation for perishable food supply chain: A case of dairy industry", *Benchmarking: An International Journal*, Vol. 24(1), pp. 2-23.
- 5. Prakash, S., Soni, G. and Rathore, A.P.S. (2017), "A critical analysis of supply chain risk management content: A structured literature review", *Journal of Advances in Management Research*, Vol. 14(1), pp. 69-90.
- 6. Panwar, A., Jain, R. and Rathore, A.P.S., (2016), "Obstacles in lean implementation in developing countries-some cases from the process sector of India", *International Journal of Lean Enterprise Research*, Vol. 2(1), pp.26-45.
- Jain, R., Meena, M. L., Dangayach, G. S., & Bhardwaj, A. K., Association of risk factors with musculoskeletal disorders in manual-working farmers, *Archives of Environmental & Occupational Health*, DOI: 10.1080/19338244.2017.1289890, Taylor & Francis (SCI Journal), 2017, 1-11.
- 8. Gidwani, B. D., and Dangayach, G. S., Productivity Measurement and Improvement An Overview, *International Journal of Productivity and Quality Management*, 20, 3, 2017, 316 –343.
- 9. Jain, R., Sain, M. K., Meena, M. L., Dangayach, G. S., and Bhardwaj, A. K., Non-powered hand tool improvement research for prevention of work-related problems: a review, *International Journal of Occupational Safety and Ergonomics*, DOI: 10.1080/10803548.2017.1296214, Taylor & Francis (SCI Journal), 2017, 1-12.
- Kumar, D., Dangayach, G. S., and Rao, P. N., Experimental Investigation on Mechanical and Thermo-Mechanical Properties of Alumina Filled Polypropylene Composites using Injection Moulding Process, *International Polymer Processing* (SCI Journal), XXXII, 3, 2017, 1-10.
- Jain, R., Meena, M. L., and Dangayach, G. S., Need of Agriculture Hand Tool Design Using Quality and Ergonomics Principles, *Lecture Notes in Mechanical Engineering*, 23, 2016, 77-84.
- 12. Jain, R., Gupta, S., Meena, M. L., and Dangayach, G. S., Optimisation of Labour Productivity using Work Measurement Techniques, *International Journal of productivity and quality management*, 19, 4, 2016, 484-510.



- 13. Dangayach, G.S. and Gupta, P., Optimisation of burning loss in reheating furnace of hot rolling mill using Taguchi technique, *International Journal of Business Excellence*, 10, 2, 152–161, (2016).
- 14. Singhal, P., Gupta, S., Dangayach, G. S., Singh, A. K., Meena, M. L., and Rao, P.N., Sustainable Design and Life-cycle assessment of Connecting Rod for Material Optimization, *Journal of Energy and Environmental Sustainability*, 2, 36-42, (2016).
- 15. Khan, Y., Bhandari, M., & Mathur, J., (2017). Energy Saving Potential of Radiant Cooling System in Different Climatic Zones of India. Science and Technology for the Built Environment. (Accepted).
- 16. Mathur, J., Bhandari, M., Kumar, V., Khan, Y., & Srivastava, P. (2017). Development of a Heat Transfer Model for Ceiling Radiant Cooling Panels through a Combined Experimental and Simulation Study. ASHRAE Transaction, 123 (1), 95-104
- 17. Mathur, A., Tewari, P., Mathur, S., Agrawal, G.D., & Mathur, J. (2017). Comparative study of straight and spiral earth air tunnel heat exchanger system operated in cooling and heating modes. Renewable Energy, 108, 474-487
- Kumar, S., Mathur, J., Mathur, S., Singh, M.K., & Loftness, V.(2016). An Adaptive Approach to define Thermal Comfort Zones on Psychrometric Chart for Naturally Ventilated Buildings in Composite Climate of India. Building and Environment, 108, 135-153
- 19. Kumar, S., Singh, M.K., Loftness, V., Mathur, J., & Mathur, S. (2016). Thermal Comfort Assessment and Characteristics of Occupant's Behavior in Naturally Ventilated Buildings in Composite Climate of India. Energy for Sustainable Development, 33, 108-121
- 20. Mathur, A., Surana, A.K., Verma, P., Mathur, S., Agrawal, G.D., & Mathur, J. (2016). Investigation of soil thermal saturation and recovery under intermittent and continuous operation of EATHE. Energy and Buildings, 109, 291-303
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- 34. Bhargav Prajwal, Jaikishan Sanbharia, Harlal Singh Mali, Ravindra Nagar, "Mechanical, Thermal and Rheological Characterization of marble waste with Different Coolants", in Material Today proceedings for International conference on Processing of Materials, Minerals and Energy, at PACE institute, India, 29-30 July 2016.
- 35. Mali, Harlal Singh; Baghel, Rupali; Unune, Deepak Rajendra; 2017 "Experimental Investigation on Hybrid Micro-Electro Discharge Machining of Inconal 718 and Ceramics Materials," In Proceedings of International Academic Multi Disciplinary Conference (IAMDC) conducted by WAIRCO at Mauritius from 17-18 Feb 2017.
- 36. Wheatley, Benjamin B.; Fischenich, Kristine M.; Abrams, Lisa M.; Sorby, Sheryl A.; Mali, Harlal Singh; Jain, Anil K; Donahue; Tammy L. Haut; 2017, 'Improvement of an International Research Experience: Year Two'' In Proceedings of ASEE Annual Conference & Exposition held at Columbus, Ohio, USA from 25-28 June 2017.

#### List of Papers Presented at National Conferences

- 1. Dr. Amit Kumar Singh "Nonlinear Finite Element Analysis of Micro-Lattice Structures For Patient Specific Implants" Presented at 33<sup>rd</sup> Southern Bioengineering Conference held in Gulfport, USA, March 18<sup>th</sup>, 2017
- 2. Garvit Khandelwal, Vinod Yadav, Ayush Jain and Rakesh Jain (2016) "Application of VSM approach in Indian SME: a case study" *National Conference on Industrial Engineering& Technology Management at NITIE Mumbai*
- 3. Swaraj Das, Chandrapal Singh and Dilip Sharma, "Waste heat recovery from the exhaust of internal combustion engines for the purpose of refrigeration and air conditioning: A Review" National Conference on "Renewable Energy Sources and Sustainable Development: Opportunities and Challenges (RESSD-2016)" Jaipur Engineering College and Research Centre, Jaipur, 07-08 October, 2016.
- 4. Hemant Raj Singh, Dilip Sharma, S. L. Soni, Pradeep Gupta and Sumit Sharma, "A Study on Automotive Emission Norms: A Review" All India Seminar on Emerging Trend in Automobile Engineering" organized by The Institution of Engineers (India) Alwar Local Chapter Alwar, 15-16 October, 2016. paper No. 07



5. Sumit Sharma, Dilip Sharma, S. L. Soni, Pradeep Gupta and Hemant Raj Singh, "Performance and Emission studies on alternate gaseous fuel operated I.C. engines: A Review" All India Seminar on Emerging Trend in Automobile Engineering" organized by The Institution of Engineers (India) Alwar Local Chapter Alwar, 15-16 October, 2016. paper No. 22

#### **Books Published**

S. No.	Title	Author	Publisher
1.	Solar thermal collector: Direct absorption using nanofluids	Rahul Khatri and G. D. Agrawal	LAP Lambert Academic Publishing, Germany
2.	Optimization and thermal performance analysis of solar air heater-a CFD based study	Anuj Mathur and G. D. Agrawal	LAP Lambert Academic Publishing, Germany
3.	Performance Analysis of Roof Top Salt Gradient Solar Pond	Mukesh Kumar Sharma and G. D. Agrawal	LAP Lambert Academic Publishing, Germany
4.	Energy Management Practices in SME	Kunj Bihari Rana and G. D. Agrawal	LAP Lambert Academic Publishing, Germany
5.	Solar Drying in hot and dry climate	Darshit Parikh and G. D. Agrawal	LAP Lambert Academic Publishing, Germany

### Monographs published

S. No.	Title	Author	Publisher
1.	Indian Weather Data 2017	Jyotirmay Mathur, Vihal Garg, Vikram Murthy	ISHRAE
2.	Tribo-Performance Evaluation and Optimisation of Fibre Reinforced Phenolic-Based Friction Composites (Chapter – 8, 143-153)	Tej Singh, Amar Patnaik, Ranchan Chauhan	CRC Press, USA (Taylor and Francis Group)
3.	Machinability of nickelbased superalloys: an overview in Online Reference Database Reference Module in Materials Science and Materials Engineering (MS.09817)	HS Mali, DR Unune	Elsevier





S. No.	Name of Faculty	Membership	
1.	Prof. A. P. S. Rathore	Life Member, Indian Institution of Industrial Engineering (IIIE)	
2.	Prof. G S Dangayach	<ol> <li>Fellow Member of Institution of Engineers (India) (Membership No. F 1129895)</li> <li>Life Member of Indian Society of Technical Education (Membership No. LM 5307)</li> <li>Life Member of Indian Society of Mechanical Engineers (Membership No. L 328)</li> <li>Life Member of Plasma Science Society of India (Membership No. L 844)</li> <li>Life Member of Indian Society of Ergonomics (Membership No. L 319)</li> <li>Sr. Member of International Association of Computer Science &amp; Information Technology (IACSIT Membership No. 80343652)</li> <li>Sr. Member of Indian Institute of Industrial Engineering(SM-9924-45)</li> </ol>	
3.	Dr. Amar Patnaik	ISTE Life Member (Membership number LM 36538) Tribology Society of India: Life member LM 3950 Life Member (LM-419) of Electron Microscope Society of India	
4.	Dr. G. D. agrawal	<ol> <li>Life member of ISTE</li> <li>Fellow, Institution of Engineers, India</li> <li>Life member, Indian Desalination Association</li> </ol>	



5.	Dr. Harlal Singh Mali	Society of Manufacturing Engineers (Member 11524398)
		The Institution of Engineers (India) (Associate
		Member 525255-6)
		Indian Society for Technical Education Life Member (LM
		54188)
		Society of Automotive Engineers (SAE) Member
		(7010031073)
		Autodesk Certified Instructor (ACI) & Autodesk Certified
		Evaluator (ACE) (05901217)
		Indian Institution of Industrial Engineering (IIIE) Life Member
		World Academic-Industry Research Col. Org.(WAIRCO-
		04000216)
6.	Prof. G. Agarwal	Indian Institution of Industrial Engineering (IIIE) Life Member, IIE- India

### ANY OTHER DETAILS WORTH PUBLICATION IN ANNUAL REPORT2016-17

Patents filed by the department /faculty

S. No.	Patent brief detail	Status (filed/accepted)	Year
1	Development and characterization of self healing and antibacterial dental material	Filed (201611002648)	2016
2	Slurry erosion wear assessment of marble dust powder reinforced aluminum alloy composites hydraulic turbine blade	Filed (201611002651)	2016
3	Dry sliding wear assessment of Nickel metal powder reinforced aluminum alloy composites for gear applications	Filed (201611002649)	2016
4	Anti theft fuel tap for two wheelers through Institute authorized patent attorney No. 201611015178 filed in April 2016. Prof. Dilip Sharma	Filed	2016





#### **DEPARTMENT OF MANAGEMENT STUDIES**

- 1. Kumar, D., and Rahman, Z. (Accepted) Analyzing enablers of sustainable supply chain Journal of Modelling in Management (Scopus)
- 2. Kumar, D. and Garg, C. P. (Accepted) Evaluating sustainable supply chain indicators using FuzzyAHP: Case of Indian automotive industry, *Benchmarking: an International Journal, Vol 24 (7)(Scopus)* DOI: 10.1108/BIJ-11-2015-0111.
- 3. Goyal, P. and Kumar, D. (Accepted) Modelling of CSR enablers in manufacturing industries, *Bencharking: An International Journal, 24 (8)* (Scopus).
- 4. Baker, K., Kumar, S., Colombage, S. and Partap Singh, H. (2017) "*Working capital management practices in India: survey evidence*", Managerial Finance, Vol 43, Issue 3, pp.331-353. Emerald Group Publishing Limited, UK]-(ABDC–'B', Scopus, ABS and ERA listed Journal).
- Kumar S., Colombage, S. and Rao, P. (Accepted) "Research on Capital Structure Determinants: A Review and Future Directions", International Journal of Managerial Finance, Vol 13, Issue 2, pp. 106-132, Emerald Group Publishing Limited, UK] - (ABDC-"B", Scopus and ERA listed Journal).
- 6. Agrawal, A. K., Kumar, D., &Rahman, Z. (Accepted). An ISM approach for modelling the enablers of sustainability in market-oriented firms. *International Journal of Business Excellence*, *12*(*1*), 23-45.
- Kumar, D., Rahman, Z. & Chan, F.T.S. (2017) A fuzzy AHP and fuzzy multi-objective linear programming model for order allocation in a sustainable supply chain: A case study, International Journal of Computer Integrated Manufacturing, 30:6, 535-551, DOI:10.1080/0951192X.2016.1145813 (Impact Factor - 1.319)
- 8. Rao, Purnima; Kumar, Satish; Verma D, and Gaur V (2017) "*What constitutes Financing Gap in Indian SMEs–Owners Perspective?*", under review in Qualitative Research in Financial Markets, Emerald Group Publishing Limited, UK] (ABDC 'C', Scopus, ABS and ERA listed Journal)- Forthcoming. Vol 9, Issue 2.
- 9. Partap Singh, H., Kumar, S. and Colombage, S. (2017) *"Working Capital Management and Firm Profitability: A Meta-Analysis",* Qualitative Research in Financial Markets, Vol 9, Issue 1, pp.34-47. Emerald Group Publishing Limited, UK] (ABDC- 'C', Scopus and ERA listed Journal).
- Harshpartap Singh and Kumar S. (2016) "A cross Industry analysis of working capital management in India: Pre and Post financial crisis" International Journal of Management Practice (IJMP), Inderscience Publishers, UK- (ABDC- C, Scopus and ERA listed Journal) –Forthcoming
- Gupta, S., Sharma, M. &Vijayasunder, M., Lean Services: A Systematic Review. International Journal of Productivity and Performance Management, 2016, Vol 65, No8. 1025-1056
- 12. Gupta, S., Sharma, M., (Accepted) "Empirical Analysis Of Existing Lean Service Frameworks In A Developing Economy "International Journal of Lean Six Sigma.



#### List of Papers Presented at International Conferences:

- 1. Das D., Bhardwaj A., Sharma M. 2016. 'Occupational health of the worker engaged in Gems and Jewellery manufacturing', Enhancing National Competitiveness: Role of Industrial Engineering and Technology Management, Mumbai, 17-19 Nov. Excel India Publishers, pp. 129-142. ISBN: 978-93-86256-15-7.
- 2. Das D., Sharma D., Bhardwaj A., Sharma M. 2016. 'Concept Design of a Hand tool and a Material Handling Device for Construction workers: An Ergonomic Approach'. 14th International Conference on Humanizing Work and Work Environment, Jalandhar, 18-21 Dec.
- 3. M. Sharma, A. Kumar, D.Das, "Identification and Analysis of Comfort Predictors in the Use of A Hand Tool' Proceedings of the 2nd World Congress on Mechanical, Chemical, and Material Engineering (MCM), Budapest, Hungary–August 22–23, 2016.
- A.Kumar, M.Sharma, G. S. Dangayach, K. Anand, "Design of Blue Pottery Working Table for Indian Population Using Taguchi Approach", Proceedings of the 2nd World Congress on Mechanical, Chemical, and Material Engineering (MCM), Budapest, Hungary – August 22 –23, 2016.
- 5. Goyal, N and Kumar, S. (2016) "Further Evidence on Rationality and Behavioural Biases in Investment Decision Making", paper presented in International Conference on Financial Markets and Corporate Finance (ICFMCF-16), DMS, IIT Madras, Chennai, August 12-13, 2016.





#### **DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING**

#### **Research Papers Published in International Journals:**

- 1. Polycarbonate based three-phase nanocomposite dielectrics P.K.Sain, RK Goyal, Y Prasad, AK Bhargava, Materials Research Express 3 (8), 085016
- 2. Electrical Properties of Single-Walled/Multiwalled Carbon-Nanotubes Filled Polycarbonate Nanocomposites Journal of Electronic Materials, ASSN 0361-5235. DOI: 10.1007/s11664-016-4907-5 P..K. Sain, R..K. Goyal, Y.V.S.S. Prasad and A. K. Bhargava
- 3. Influence of Chromium and Nickel Variation on the Microstructure, Carbide Morphology and Corrosion Behaviour in Fe–Mn–Cr–Cu based Austenitic White Irons P. K.Sain, C. P. Sharma, A. K.Bhargava International Journal of Cast Metals Research 29 (6), 362-368
- 4. Wear analysis of A356 alloy cast through rheometal process R Gupta, A Sharma, U Pandel, L Ratke, Materials Research Express 4 (4), 046503
- 5. Effect of mechanical vibrations on grain refinement of AZ91 Mg alloy V Chaturvedi, A Sharma, U Pandel, Materials Research Express 4 (4), 046501
- 6. Coarsening Kinetics in Al Alloy Cast Through Rapid Slurry Formation (RSF) Process R Gupta, A Sharma, U Pandel, L Ratke, ActaMetallurgicaSlovaca 23 (1), 12-21
- 7. Influence of Annealing of Al-5Ti-1B Master Alloy on Hot Tearing of Cast Al-7Si-3Cu Alloy, Sachin Kumar Rathi, Ashok Sharma, Marisa Di Sabatino, Key Engineering Materials, 737(2017), 27-31.
- 8. Effect of mould temperature, grain refinement and modification on hot tearing test in Al-7Si-3Cu alloy,Sachin Kumar Rathi,Ashok Sharma, Marisa Di Sabatino,Engineering Failure Analysis, 79, 2017 592-605
- 9. Solid particle erosion resistance of HVAF-sprayed WC-10Co-4Cr coating on CA6NMsteel A. Hamilton, A.Sharma, U.Pandel, Surface Review and Letters, 1850011
- 10. Effect of heat treatment on microstructures and mechanical properties of A356 alloy cast through rapid slurry formation (RSF) process R Gupta, A Sharma, U Pandel, L Ratke, International Journal of Cast Metals Research, 1-10
- 11. "Effect of Impingement Angle on Erosion Resistance of HVOF Sprayed WC-10Co-4Cr Coating on CA6NM Steel" Anurag Hamilton, Ashok Sharma, Upender Pandel, Key Engineering Materials Vol. 751, pp 79-83
- 12. Erosion behaviour of WC–10Co–4Cr coating on 23-8-N nitronic steel by HVOF thermal spraying, A Sharma, SK Goel, Applied Surface Science 370, 418-426
- Doping of nano-crystalline silicon powders by mechanical alloying: the process and characterization A Goyal, PR Soni, Journal of Materials Science: Materials in Electronics, 1-8
- 14. Synthesis of copper powder by mechanically activated cementation R Jhajharia, D Jain, ASengar, A Goyal, PR Soni, Powder Technology 301, 10-15
- 15. Effect of wafer thickness on characteristics of hetero-junction silicon solar cell A Goyal, PR Soni, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 10 (11-12), 855-857



- 16. Nanostructured 2024Al–SiCp composite coatings S Tailor, RM Mohanty, VK Sharma, PR Soni, AV Doub, Surface Engineering 32 (7), 526-534
- Comparison of ballistic performances of Al 2 O 3 and AlN ceramics MJ Pawar, A Patnaik, SK Biswas, U Pandel, IK Bhat, S Chatterjee, International Journal of Impact Engineering 98, 42-51
- 18. "Production of Iron –Multiwall Carbon Nanotubes (CNT) Composite by Mechanical Alloying, Akshay Kumar, U.pandel, M.K.Banerjee"International Journal of Engineering Technology Science and Research Vol.4 (2017) ISSN 2394–3386.
- "Effect on Mechanical Properties of Fe/MWCNTNanocomposites after Vary the Weight present of MWCNTs prepared by High Energy Ball Milling"Akshay Kumar, M.K.Banerjee, U.Pandel, International Journal of Engineering Technology, Management and Applied Sciences. Vol. 5(2017) ISSN 2349-4476
- 20. A comprehensive study of SHI irradiated fullerene C 60 thin films: Polymerization to amorphization P Sharma, R Singhal, R Vishnoi, MK Banerjee, DK Avasthi , Synthetic Metals 227, 93-99
- 21. Ion track in fullerene C70 thin film: Dependence of electronic energy loss P Sharma, R Singhal, R Vishnoi, MK Banerjee, AIP Conference Proceedings 1832 (1), 050158 2017
- 22. Observation of martensitic transformation in Ni50Mn41Cu4Sn5 Heusler alloy prepared by mechanical alloying D Saini, S Singh, MK Banerjee, K Sachdev AIP Conference Proceedings 1837 (1), 040068
- 23. Electronic excitation induced modifications of nanostructured Ni-Ti shape memory alloy thin films V Kumar, R Singhal, R Vishnoi, M Gupta, P Sharma, MK Banerjee
- 24. Effect of Ag ion implantation on SPR of Cu-C60 nanocomposite thin film P Sharma, R Singhal, R Vishnoi, DC Agarwal, MK Banerjee, S Chand, Plasmonics, 1-11
- Surface and structural studies of fullerene C70 under ion irradiation P Sharma, R Singhal, R Vishnoi, MK Banerjee, R Kaushik, KV Kamma, Surface Engineering 32 (11), 846-852 2016
- 26. "Measurement and Prediction of Thermal Conductivity of Nanofluids Containing TiO2 Nanoparticles" KamleshVerma, Ravi Agarwal, R.K. Duchaniya, Ramvir Singh ,, JOURNAL of NANOSCIENCE and NANOTECHNOLOGY Volume:16/001-008/2016
- 27. "Synthesis, characterization, thermal conductivity and sensitivity of CuOnanofluids", Ravi Agarwal, KamleshVerma, Narendra Kumar Agarwal, Rajendra Kumar Duchaniya, Journal of APPLIED THERMAL ENGINEERING, vol. 102, 1024-1036, 2016.
- 28. "Study of Corrosion Behavior of Ni-P-TiO 2 Nanocomposite Coating on Mild Steel Deposited by Electroless Deposition Process", Komal Yadav, Vibha Uttam, R. K. Duchaniya, journal of materials science and surface engineering, Volume 4, Issue 4: Page 410-414.2016
- 29. "Characterization Study of Ni-P-TiO2 Nanocomposite Coating on Mild Steel by Electroless Plating Method" VibhaUttam, ParulYadav, R. K. Duchaniya, ", journal of materials science and surface engineering, Volume 4, Issue 5: Page 432-435. 2016
- "Vibrational, Structural and Thermal studies of Debris of 30%CaO-70%B2O3 ", Shrikant, A.K. Nayak, U. Pandel, R. K. Duchaniya, journal of materials science and surface engineering, Volume 4, Issue 6: Page 444-447. 2016



- **MNIT JAIPUR**
- 31. "Synthesis and characterization of PVA/TiO2 nanocomposite", R.K. Duchaniya, Niresh Choudhary ,doi:10.4028/www.scientific.net/KEM.737.242 Volume :737 / 242-247 / 2017 ISBN: 1662-9795
- 32. "Polyaniline Carbon Nanotube Composites: Preparation Methods, Properties and Applications". Anil Kumar, Vinod Kumar, Kamlendra Awasthi, Polymer-Plastics Technology and Engineering (online published on March 13, 2017), DOI: 10.1080/03602559.2017.1300817.
- 33. "Local atomic structure investigation of AlFeCuCrMgx(0.5, 1, 1.7)High Entropy Alloys: Xray Absorption Spectroscopy study"OrnovMaulik, N. Patra, D.Bhattacharyya, S. N. Jha and Vinod Kumar; Solid State Communication, 252 (2017) 73-77. (I.F.: 1.458), DOI: 10.1016/j.ssc.2017.01.018.
- "Electrical behavior of dual morphology of polyaniline" Anil Kumar, L. K. Jagir, Y. Kumari, M. Kumar, Vinod Kumar, K. Awasthi;, Journal of Applied Polymer Science, 44091 (2016) 1 -9 (IF: 1.768). DOI: 10.1002/app.44091.
- 35. "Structure-Magnetic Properties Correlation in Mechanically Alloyed Nanocrystalline Fe-Co-Ni-(Mg-Si)x Alloy Powders (Accepted on 28-05-2016)"Nisheeth Kumar Prasad, Vinod Kumar,, Journal of Materials Science: Materials in Electronics, 27 (2016), 10136–10146 [IF: 1.798]. DOI: 10.1007/s10854-016-5090-4.
- 36. "Structural evolution of spark plasma sintered AlFeCuCrMgx (x=0, 0.5, 1, 1.7) high entropy alloys"OrnovMaulik, Devesh Kumar, Saurav Kumar, Daniel M. Fabijanic, and Vinod Kumar, Intermetallics, 77 (2016) 46-56. (I.F.: 2.542), DOI: 10.1016/j.intermet.2016.07.001.
- 37. "Microstructure and Characterization of Mechanically Alloyed EquiatomicAlCuCrFeMnW High Entropy Alloy"Devesh Kumar, OrnovMaulik, Atul Singh Bagri, Y.V.S.S. Prasad, VinodKumar,, Materials Today - Proceedings (Elsevier) 3 (2016), pp 2926–2933. DOI: 10.1016/j.matpr.2016.09.005.
- 38. "Oxidation study of Mg-Li-Al based alloy", Materials Today Proceedings (Elsevier) 3 Satya Prakash Saini, Saurav Kumar, Ritu Barman, Amrita Dixit, Vinod Kumar, (2016) pp 3035–3044. DOI: 10.1016/j.matpr.2016.09.018.

#### **Research Papers Published in National Journals**

- Performance of Al–5Ti–1B Master Alloy After Ball Milling on Minimizing Hot Tearing in Al–7Si–3Cu Alloy SK Rathi, A Sharma, M Sabatino, Transactions of the Indian Institute of Metals 3 (70), 827-831
- 1. Wear Behavior of Plasma Sprayed Nanostructured Al–SiCp Composite Coatings: A Comparative Study S Tailor, RM Mohanty, PR Soni, AV Doub, Transactions of the Indian Institute of Metals 6 (69), 1179-1191
- Energy-Efficient Melting Technologies in Foundry Industry, Indian Foundry Journal' Vol. 62, No.9, Kamlesh Rathod, Sonakshi Gupta, Ashok Sharma and Sharad Prakash, September 2016,39-46
- 3. Removal of Impurties from Molten Aluminimum to produce quality castings, Indian Foundry Journal, MahimaDewani, Vinod Nebhani and Ashok Sharma, Nov, 2016, Vol No-11, 49-58.



4. Melting of Aluminium Alloys (Problems & Solutions), Foundry, Jan/Feb 2017,pp 43-63. UjjwalGoyal, Ankit Gupta, Shakshi Bajpai, Ashok Sharma

#### List of Papers Presented at International Conferences:

- 1. Wear Behaviour of Indigenously Prepared Glass Particulate Filled Polycarbonate Matrix Composites, Ishita Agarwal, Akshobhya Abhigyan, Pooja Soni, Abhishek Gupta, Vijay Kumar, Santosh, Nakul R. Padalkar, and A. K. Bhargava,8th International Science, Social Science, Engineeringand Energy Conference, March 15-17, 2017, Pattaya, Thailand.
- 2. Bandgap Engineering in Nanocrystalline Silicon Powder by Mechanical Alloying, International conf. PM-17, Ankit Goyal and P. R. Soni, Feb 20-22, 2017, New Delhi.
- 3. Dynamic Re-Crystallization of Low Carbon Steel in Plain Strain Condition P Kumar, MK Banerjee, P Hodgson, AR Choudhury, International Journal of Mechanical Engineering and Robotics Research 5 (2), 160
- 4. Higly thermal conductive CuOnanpoparticlesynthesisusingaloe-vera leaf extract, Journal of nanomaterials and molecular nanotechnology,2017,6:4, Priyanka Meena, RC Prajapat, Ramvirsingh, I.P.Jain, V.K.Sharma,.
- 5. Chemical synthesis of ZnO/PVA nanocomposites and their characterization studies, International journal of Advanced Studies of Scientific Research, Priyanka Meena, V.K.Sharma (2016), ISSN 24694010.
- 6. Development of TiO2/PVA nanocomposites for applications in solar cells, in 7th International Conference on Materials Processing and Characterization (ICMPC-2017), at Hyderabad, India, VandanaKaler, R.K. Duchaniya, U. Pandel, 17th -19th March 2017.
- 7. Influence of Different Sintering Temperatures on Simulant Material for Experiment of Melt Coolability, in ISEEC-2017 at Pattaya, Thailand, S. K. Verma, P. P. Kulkarni, A. K. Nayak, U. Pandel, R. K. Duchaniya, March 15th -17th, 2017.
- 8. Synthesis and characterization of PVA/TiO2nanocomposite, in International conference on Materials Science and Engineering Technology (ICMSET-2016)"Phuket, Thailand, R.K. Duchaniya, Niresh Choudhary, Oct.14-16,2016
- 9. Influence of Different Temperatures on Simulant Material, Special Section on: Current Research Topics in Power, Nuclear and Fuel Energy, SP-CRTPNFE,Hydrabad, INDIA, Shrikant, A.K. Nayak, U. Pandel, R. K. Duchaniya, Oct. 2016
- 10. Potentiodynamic studies of Ni-P-TiO2nano-composited coating on the mild steel deposited by electroless plating method, Proceeding of International Conference on Condensed Matter and Applied Physics Vol.1728, 020270, Vibha Uttam, RK Duchaniya, 6 May 2016.
- 11. Quenching behavior of molten pool with different strategies–A review,Proceeding of International Conference on Condensed Matter and Applied Physics Vol. 1728, 020448, Shrikant, U Pandel, RK Duchaniya, AK Nayak, 6 May 2016.

#### List of Papers Presented at National Conferences

- "Synthesis and characterization of light weight high entropy alloy by mechanical alloying and spark plasma sintering"; Ornov Maulik, Devesh Kumar, Saurav Kumar, Daniel M. Fabijanic, Probal Das, and Vinod Kumar, NMD 2016
- 2. "Addressing materials education and challenges at MNIT Jaipur", Vinod Kumar, NMD 2016.



## **Books Chapter Published**

S. No.	Title	Author	Publisher
1.	Hardenability of Steel (Chapter ) [Comprehensive Metal Finishing, Vol.2,pp 50-70, Hashmi, M.S.J. (ed), 2017]	A. K. Bhargava Prof. M. K. Banerjee	Elsevier
2.	Heat-Treating Copper and Nickel Alloys (Chapter) [Comprehensive Metal Finishing, Vol.2,pp50-70, Hashmi, M.S.J. (ed), 2017]	A. K. Bhargava Prof. M. K. Banerjee	Elsevier
3.	Fundamentals of Heat Treating Metals and Alloys (Chapter) [Comprehensive Metal Finishing, Vol.2,pp 1-49, Hashmi, M.S.J. (ed), 2017]	Prof. M. K. Banerjee	Elsevier
4.	Heat Treatment of Commercial Steels (Chapter) [Comprehensive Metal Finishing, Vol.2,pp 180 213, Hashmi, M.S.J. (ed), 2017]	Prof. M. K. Banerjee	do
5.	Intermetallics: Titanium Aluminides <i>in</i> Reference Module in Materials Science and Materials Engineering.	F. Appel, R. Wagner, and Vinod Kumar	Oxford: Elsevier; 2017. pp. 1-20
6.	Refractory Metals and AlloysB C.L., MK BanerjeeReference Module in Materials Science and Materials Engineering	Prof. M. K. Banerjee	Oxford, 1-11
7.	Tool and Die Steels in Reference Module in Materials Science and Materials Engineering	Prof. PM Novotny, Prof. M K Banerjee	Oxford, 1-11
8.	Nuclear Applications: Zirconium Alloysin Reference Module in Materials Science and Materials Engineering	Prof. S Banerjee, Prof. M K Banerjee	Oxford, 1-11
9.	Nickel-Based Superalloys: Alloying in Reference Module in Materials Science and Materials Engineering	Prof. J H Weber, Prof. M K Banerjee	Oxford, 1-11
10.	Nickel and Nickel Alloys: An Overviewin Reference Module in Materials Science and Materials Engineering	Prof. J H Weber, Prof. M K Banerjee	Oxford, 1-11
11.	Martensitic Non-stainless Steels: High Strength and High Alloy in Reference Module in Materials Science and Materials Engineering	Prof. WM Garrison, Prof. MK Banerjee	Oxford, 1-11



## **MEMBERSHIP OF PROFESSIONAL BODIES**

S. No.	Name of Faculty	Membership
1.	Prof. A.K. Bhargava	Life Member of Indian Institute of Metals .
		Life Member of Indian Society for Technical Education.
		Member of Americal Society for Metals, USA
2.	Prof. Ashok Sharma	Member of Indian Institute of Metals .
		Member of Indian Institute of Indian Foundry men.
		Life Member of Indian Society for Technical Education.
3.	Prof. P. R. Soni	Life member of The Indian Institute of Metals.
		Life Member of Indian Society for Technical Education.
		Life member of powder metallurgy association of India.
		Member of American Powder Metallurgy Institute International
4.	Prof. Upender Pandel	Life member of ISTE, New Delhi
		Life Member of The Indian Institute of Metals.
		Life Member of Indian Institute of Indian Foundry men.
5.	Prof. M. K. Banerjee	Life member of The Indian Institute of Metals
		Life member of I.S.T.E.
		Life member of Computer Society of India
		Life member of Institution of Indian Foundry men
		Life member of Indian Thermal Analysis Society
		Life member of Institution of Engineers (India)
		Life member of Materials Research Society of India
		Life member of Indian Science Congress Association
		Life member of Indian Physical Society
		Life member of Structural Integrity Association of India



6.	Dr. N. C. Upadhyay	Member of Indian Institute of Metals .
		Life Member of powder metallurgy association of India.
		Life Member of Plasma Science Society of India .
7.	Dr. V. K. Sharma	Life Member of The Indian Institute of Metals.
		Life Member of Plasma Science Society of India .
		Life Member of Indian Society for Technical Education.
8.	Dr. Y.V.S.S. Prasad	Life Member of Indian Institute of Metals .
		Life member of All India Council for Technical Education (AICTE).
		Life member of Materials Research Society of India.
9.	Dr. S. K. Gupta	Life Member of Indian Institute of Metals
10.	Dr. R.K.Duchaniya	Institute of Engineers (India)
		Materials Research Society of India
		Indian Institute of Metals
11.	Dr. Vinod Kumar	Life Member of  Electron Microscope Society of India (EMSI).
		Member of The Indian Institute of Metals.
		Member of The Minerals, Metals and Materials Society (TMS).
12.	Krishna Kumar	Member of Indian Institute of Metals
13.	Dr. Vijay N. N.	Life Member of The Indian Institute of Metals.
		Life Member of powder metallurgy association of India.
		Member of Americal Society for Metals.
14.	Dr. A. K. Pradhan	Associate Member of IE (India).



## ANY OTHER DETAILS WORTH PUBLICATION IN ANNUAL REPORT2016-17

S. No.	Name of	Perticulars
	Faculty(s)	
1.	Prof. P R Soni	Acted as Gueat Reviewer for international journals (Elsevier): (a)
		Materials Letters(b) Powder Technology
2	Prof. A. K.	Member Scruitiny Committee Appointed by AICTE for verification of documents on March 2, 2017 at AICTE office, Kanpur
	Bhargava	
3	Prof. A. K.	Expert member of a committee for examining application of faculty for attending Int. Conf. abroad, SVNIT Surat on September 27, 2017
	Bhargava	
4	Prof. A. K.	Member Screening/Selection Committee for promotion under CAS at PEC University of Technology, Chandigarh
	Bhargava	
5	Prof. A. K.	Reviewer for the research paper "Microstrucutre and Mechanical
	Bhargava	Behaviour Characterisation of Al-Al <sub>2</sub> O <sub>3</sub> MMC Processed by DIMOX and Al-Al <sub>2</sub> O <sub>3</sub> -MnO <sub>2</sub> Hybrid MMC processed via Stir Casting rute"
6	Dr. Vinod Kumar	Reviewer of International Journal "Corrosion Science".
7	Dr. Vinod Kumar	Reviewer of International Journal "Journal of Materials and Metals".
8	Dr. Vijay N. N.	Reviewer of Transactions of the Indian Institute of Metals
9	Prof. A.K.	Coordinators of Industrial visits for IInd & IIIrd year B.Tech students
	Bhargava	to Gravita India Ltd., Phagi, Jaipur on August 20, 2016(ii) NBC,
	Prof. YVSS	Jaipur (iii) Khetri Copper Complex, Khetri(iv) CIPET, Jaipur
	Prasad	
	Dr. V. K. Sharma	
	Dr. R.K.	
	Duchaniya	
	Dr. Vijay N.N.	
10	Dr. V. K. Sharma	Coordinators of Industrial visits for Ist&IInd year M.Tech. students to
		NBC, Jaipur on Sept. 10, 2016
11.	Dr. V. K. Sharma	Coordinators of Industrial visits for IInd&IIIrd year B.Tech sudents to
		CIPET, Jaipur on April 5, 2017
12.	Dr. V. K. Sharma	Coordinators of Industrial visits for IInd&IIIrd year B.Tech students to
	Dr. R.K.	Khetri Copper Complex, Khetri on April 2, 2017
	Duchaniya	
	Krishna Kumar	
12	Dr. Vijay N.N.	
13.	Prof. U. Pandel	Coordinators of Industrial visits for IInd&IIIrd year B.Tech students to
		Hydro Power Plant, Manali



## Patents filed by the department /faculty

S. No.	Patent brief detail	Status (filed/accepted)	Year
1	Production of copper nano -powder by mechanically activated cementation.	Filed	2016
2	A Metal Matrix Nanocomposite (Conducting Magnet) and Process of Synthesis of Nanocomposite by High Energy Ball Milling	Filed	2017
3	Production of Fine grained Ultra high Hardness Steel by powder metallurgy	Filed	2017





### **DEPARTMENT OF PHYSICS**

Research Papers Published in International Journals:

- 1. A Study of Oxygen Gas Sensing in Zn-doped SnO2 Nanostructures, Parul Gupta, S.K. Sharma, Materials Research Express (2017) doi.org/10.1088/2053-1591/aa7080.
- 2. Synthesis and Characterization of Graphene Oxide (GO) and Reduced Graphene Oxide (rGO) for Gas Sensing Application. Neeru Sharma, Vikas Sharma, Yachana Jain, MitleshKumari, Ragini Gupta, S.K. Sharma, K.Sachdev Macromolecular symposia (2017)-Accepted.
- 3. Corrosion behavior of amorphous Zr59Nb3Al10Ni8Cu20 alloy in aqueous HNO3 media Poonam Sharma, Anil Dhawan and S. K. Sharma, Anti-Corrosion Method and Materials 63/2 (2016) 97-104.
- Post annealing treatment of ZnS thin film as a buffer layer, Indu V. Vashistha, M. C. Sharma, R. Sharma, and S. K. Sharma, Surface Engineering (2016) DOI: 10.1080/02670844.2016.1254978.
- 5. Effect of Temperature on Synthesis and Gas Sensing of Nanostructured SnO2, Parul Gupta, S.K. Sharma, Advanced Science Letters, 22:11 (2016) 3743-3746.
- 6. Electrochemical investigation of amorphous Zr60Pd5Cu15Ni10Al10 and Zr57Nb5Cu20Ni8Al10 alloys in oxidizing medium Poonam Sharma, Anil Dhawan and S. K. Sharma, Advanced Science Letters, 22 (2016) 56-59.
- 7. Preparation of Mixed Phase (Anatase/Rutile) TiO2Nanopowder by Simple Sol Gel Method, Shubhra Mathur, Rohit Jain, S.K. Sharma, International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS) Volume VI, (2017) 2278-2540.
- 8. Annealing effect on Cu2ZnSnS4 thin films deposited by chemical bath method for solar cell application, Indu V. Vashistha, M. C. Sharma, R. Sharma, and S. K. Sharma, Energy Environ. Focus 5 (2016) 174-180.
- 9. Satyavir Singh, Vikas Sharma, Surbhi, Dinesh Saini, K. Asokan, Kanupriya Sachdev, Fabrication of highly efficient TiO2/Ag/TiO2 multilayer transparent conducting electrode with N ion implantation for optoelectronic applications, Ceramics International (Accepted-2017).
- 10. Vikas Sharma, Parmod Kumar, Ashish Kumar, Surbhi, K. Asokan, K. Sachdev, Highperformance radiation stable ZnO/Ag/ZnO multilayer transparent conductive electrode, Solar Energy Materials and Solar Cells 169 (2017) 122–131.
- 11. Dinesh Saini, Satyavir Singh, M.K. Banerjee, K. Sachdev, Structural transformation and hysteresis behaviour of Ni46Cu4Mn45Sn5 alloy synthesized by ball milling method. (Accepted in Journal of macromolecular symposia-2017).
- 12. Dinesh Saini¬, Satyavir Singh, MK Banerjee, K. Sachdev, Study of structural evolution and magnetic behavior of Ni50Mn45Sn5 alloy, Journal of Nano- and Electronic Physics, Vol-9, No-3, 2017.
- 13. Parmod Kumar, Vikas Sharma, Ankita Sarwa, Ashish Kumar, Surbhi, Rajan Goyal, K. Sachdev, S. Annapoorni, K. Asokan and D. Kanjilal, Understanding the origin of ferromagnetism in ErdopedZnO system, RSC Advances, 6,89242-89249,2016.



14. Vikas Sharma, Satyavir Singh, K. Asokan, Kanupriya Sachdev, A study on 100 MeV O7+ irradiated SnO2/Ag/SnO2 multilayer as transparent electrode for flat panel display application, Nuclear Instruments and Methods in Physics Research B, xxx (2016) xxx–xxx (Article in press).

**MNIT JAIPUR** 

- 15. V.Sharma, R.Vyas. B.Paul, G.S. Chang, K. Asokan, K. Sachdev, Probing into Highly Transparent and Conducting SnOxAu/SnOxStructure for Futuristic TCO Applications, RSCAdvances 6,29135,2016.
- 16. V.DurgaPraveena, K.Vijaya Kumar, K.Venkataratnam : Phosphate Removal from aqueous solutions by A Nano-Structured Ag-Chitosan Film, Journal of Nano science and Technology 2(3) (2016) 134-137. july 2016.
- 17. Rahul Singhal , R. Vishnoi, H. Inani, P. Sharma, K. K. Venkataratnam and D. K. Avasthi, Investigations on the Thermal Stability of Fullerene-Based 5 (Ag-C70) Nanocomposite Thin Films , Plasmonics DOI: 10.1007/s11468-016-0436-6.
- 18. K.K.Venkataratnam, "Analytical study of two-mode thermal squeezed states and Black holes. International Journal of Theoretical Physics.Volume 56, Number2, 377-385 (2017), DOI 10.1007/s10773-016-3178-5.
- 19. Ion beam induced modification of structural and optical properties of MgTiO3nanocrystalline thin films, ArunVinod, Mahendra Singh Rathore, T. Santhosh Kumar, D. Pamu, A. P. Pathak, N SrinivasaRao, Radiation Effects & Defects in Solids, 172 (2017) 81-89.
- Structural and Optical Properties of GeO2 Thin Films Prepared by E-Beam Evaporation, Mahendra Singh Rathore, ArunVinod, N. SrinivasaRao, Advanced Science Letters, 22 (2016) 3798-3801
- 21. Synthesis and characterization of Genanocrystals embedded in high-k dielectric (HfO2) matrix , V. Saikiran, N. Manikanthababu, N. SrinivasaRao, S.V. S. NageswaraRao, A. P. Pathak, Advanced Materials Letters, 7 (2016) 957-963.
- 22. Thermally induced tuning of SPR of metal-fullerene Ag(26%)-C70 nanocomposite, Rahul Singhal, R. Vishnoi, P. Sharma, H. Inani, G.D. Sharma, J.C. Pivin, Surface & Coatings Technology DOI:10.1016/j.surfcoat.2017.05.088 (2017).
- 23. Synthesis, characterization and thermally induced structural transformation of Au-C70nanocomposite thin films Rahul Singhal, RituVishnoi, Pooja Sharma, G.D. Sharma, S. Chand, D. Kanjilal, J.C. Pivin, Vacuum 142 (2017) 146-153.
- 24. Synthesis and characterizations of Au-C60nanocomposite R. Singhal, P. Sharma, R Vishnoi, D. K. Avasthi Journal of Alloys and Compounds 9 (2017) 696.
- 25. Investigations on the Thermal Stability of Fullerene-Based (Ag-C70) Nanocomposite Thin Films Rahul Singhal, R. Vishnoi, H. Inani, P. Sharma, K. Venkataratnam, D. K. Avasthi,Plasmonics (2016)doi:10.1007/s11468-016-0436-6.
- 26. Ferrocene-diketopyrrolopyrrole based nonfullerene acceptors for bulk heterojunction polymer solar cellsY. Patil, R. Misra, Rahul Singhal and Ganesh D. Sharma J. Mater. Chem. A 5 (2017)13625.
- 27. Electronic excitation induced modifications of structural, electrical and optical properties of Cu-C60 nanocomposite thin films H. Inani, R. Singhal, P. Sharma, R. Vishnoi, S. Ojha, S.



Chand, G.D. Sharma Nuclear Instruments and Methods in Physics Research B 407 (2017) 73–79.

- 28. Effect of low fluence radiation on nanocomposite thin films of Cu nanoparticles embedded in fullerene C60HeenaInani, Rahul Singhal, Pooja Sharma, RituVishnoi, S. Aggarwal, G.D. Sharma Vacuum 142 (2017) 5e12.
- 29. A Comprehensive Study of SHI Irradiated Fullerene C60 Thin Films: Polymerization to AmorphizationP.Sharma, R.Singhal, R.Vishnoi, M.K. Banerjee, D.K. AvasthiSynthetic Metals 227 (2017) 93.
- 30. Effect of Ag ion implantation on SPR of Cu-C60 nanocomposite thin film, P.Sharma, R.Singhal, R.Vishnoi, D.C. Agarwal, M.K. Banerjee, S. Chnad, D.Kanjilal, D. K. Avasthi Plasmonics DOI 10.1007/s11468-017-0559-4 (2017).
- 31. Comparative study on the photovoltaic characteristics of A–D–A and D–A–D molecules based on Zn-porphyrin; a D–A–D molecule with over 8.0% efficiency" Virginia Cuesta, Maida Vartanian, Pilar de la Cruz, Rahul Singhal, Ganesh D. Sharma and Fernando Langa, Journal of Materials Chemistry A5 (2017)1057.
- 32. Influence of high energy ion irradiation on fullerene derivative (PCBM) thin films, Trupti Sharma, R. Singhal, S. Biswas, R.Vishnoi, G.B.V.S. Lakshmi, Nuclear Instruments and Methods in Physics Research B 396 (2017) 5-10.
- 33. Swift heavy ion induced optical and structural modifications in RF sputtered nanocrystallineZnO Thin Film S. Singh, R. Singhal, R. Vishnoi Indian Journal of Physics (2017)doi:10.1007/s12648-016-0950-6.
- 34. Study on swift heavy ions induced modifications of Ag-ZnOnanocomposite thin film, S. K. Singh, R. Singhal, V.V. Siva Kumar Superlattices and Microstructures103 (2017) 195-204.
- Electronic excitation induced modifications of nanostructured Ni-Ti shape memory alloy thin films V. Kumar, R. Singhal, R. Vishnoi, M. Gupta, M. K. Bannerjee, K. Asokan, H.Sharma, P. Sharma, A. Gupta, D. Kanjilal Advanced Material Letters, (2016)DOI: 10.5185/amlett.2016.6211
- 36. Ion irradiation induced modifications of P3HT: A donor material for organic photovoltaic devices", T. Sharma, R. Singhal, R. Vishnoi, G.B.V.S. Lakshmi, S. Chand, D.K. Avasthi, A. Kanjilal, S.K. Biswas Vacuum 135 (2017) 73.
- Electronic excitation induced modifications of optical and morphological properties of PCBM thin films T. Sharma, R. Singhal, R. Vishnoi, P. Sharma, A. Patra, S. Chand, G.B.V.S. Lakshmi, S.K. Biswas, Nuclear Instruments and Methods in Physical Research B 379 (2016) 176.
- 38. Ion track diameter in fullerene C70 thin film using Raman active vibrational modes of C70 molecule Pooja Sharma, R. Singhal, R. Vishnoi, R. Kaushika, M.K. Banerjee, D.K. Avasthi, V. Ganesan Vacuum 123 (2016) 35.
- 39. Surface and structural studies of fullerene C70 under ion irradiation P. Sharma, R. Singhal, R. Vishnoi, M. K. Banerjee, R. Kaushik, K. V. Kamma, G.B.V. S. Lakshmi, A. Tripathi and D. K. Avasthi Surface EngineeringISBN: DOI 10.1080/02670 (2016).
- 40. Electronic excitation induced modification in fullerene C70 thin films Pooja Sharma, R. Singhal, M.K. Banerjee, R. Vishnoi, R. Kaushik, F. Singh, D.K. Avasthi Nuclear



Instruments and Methods in Physical Research B379 (2016) 188.

- 41. Structural, optical and electronic properties of Ag–TiO2 nanocomposite thin film H. Sharma, R. Singhal, V. V. Siva Kumar, K. Asokan Applied Physics A 122 (2016) 1010.
- 42. Palladium nanoparticle binding in functionalized track etched PET membrane for hydrogen gas separation, Kamakshi, Rajesh Kumar, Vibhav K Saraswat, Manoj Kumar, Kamlendra Awasthi, International Journal of Hydrogen Energy, 42 (2017)16186.
- 43. Polyaniline-Carbon Nanotube Composites: Preparation Methods, Properties and Applications, Anil Kumar, Vinod Kumar, Kamlendra Awasthi, Polymer-Plastics Technology and Engineering xx (2017)xxx.
- 44. Investigation of luminescence and structural properties of ZnO nanoparticles, synthesized with different precursors, Lokesh Kumar Jangir, Yogita Kumari, Anil Kumar, Manoj Kumar, Kamlendra Awasthi, Materials Chemistry Frontiers 1 (2017) 1413.
- 45. Selective deposition of Pd nanoparticles in porous PET membrane for hydrogen separation, Rajesh Kumar, Kamakshi, Manoj Kumar, Kamlendra Awasthi, International Journal of Hydrogen Energy, 42 (2017) 15203-15210.
- 46. Synthesis and characterization of hybrid PANI/MWCNT nanocomposites for EMI applications, Anil Kumar, Vinod Kumar, Manoj Kumar, Kamlendra Awasthi, Polymer Composites xx (2017) xxx.
- 47. Functionalized Pd-decorated and aligned MWCNTs in polycarbonate as a selective membrane for hydrogen separation, Rajesh Kumar, Kamakshi, Manoj Kumar, Kamlendra Awasthi, International Journal of Hydrogen Energy 41 (2016) 23057-23066.
- 48. Electrical behavior of dual.morphology polyaniline, Anil Kumar, Lokesh Kumar Jangir, Yogita Kumari, Manoj Kumar, Vinod Kumar, Kamlendra Awasthi, Journal of Applied Polymer Science 133 (2016) 44091.
- 49. Electron beam induced THz emissions from nanotube array, A. Kumar and P. Kumar, Phys. Plasmas 23, (2016) 103302.
- 50. Smith–Purcell terahertz radiation from laser modulated electron beam over a metallic grating, P. Kumar, L. Bhasin, V. K. Tripathi, A. Kumar, and M. Kumar, Phys. Plasmas 23, (2016)093301.
- 51. Bernstein wave aided laser third harmonic generation in a plasma, Y. Tyagi, D. Tripathi, and A. Kumar, Phys. Plasmas 23, (2016) 093115.
- 52. Measurement of the  $\rightarrow \Pi + \Pi \Pi 0$  Dalitz plot distribution Phys.Lett. B770(2017) 418-425 ,doi:10.1016/j.physletb.2017.03.050.
- 53. Search for eta-mesic 4He in the dd->3He n pi0 and dd->3He p pi- reactions with the WASAat-COSY facility P.Adlarson,..K.Lalwani et al Nuclear Physics A, 959, (2017) 102–115.
- 54. Study the Radiation Damage Effects in Si microstrip Detectors for Future HEP experiments Kavita Lalwani, G. Jain, Ranjeet Dalal, Kirti Ranjan, Ashutosh Bhardwaj Nucl. Ins. & Methods in Physics Research B, 379, (2016) 262-264.
- 55. Design, Fabrication and Characterization of multi-guard-ring furnished p+n-n+ Silicon Strip Detectors for future HEP experiments Kavita Lalwani, G. Jain, R. Dalal, A. Bhardwaj, K. Ranjan Nuclear Inst. and Methods Physics Research A, 824, (2016) 428-431.



- Characterization of Silicon Detectors through TCT at Delhi UniversityG. Jain, K. Lalwani, R. Dalal, A. Bhardwaj, K. Ranjan Nuclear Inst. and Methods in Physics Research A, 824, (2016) 411-412.
- 57. Design Optimization of Pixel Sensors using Device Simulations for the Phase-II CMS Tracker Upgrade G. Jain. K. Lalwani et al. Nuclear Inst. and Methods in Physics Research A, 824, (2016) 413-416.
- 58. Measurements of branching ratios for η decays into charged particles P.Adlarson,..K.Lalwani et al, Phys. Rev. C 94, (2016) 65206.
- 59. Search for an Isospin I = 3 Dibaryonn P. Adlarson, K. Lalwani et al Phys.Lett. B, 762, (2016) 455-461.
- 60. Measurement of the n(pol)p  $\rightarrow d \pi 0\pi 0$  Reaction with Polarized Beam in the Region of the d\*(2380) Resonance P.Adlarson,..K.Lalwani et al Eur.Phys.J.A, 52, (2016) 5.

### **Research Papers Published in National Journals:**

1. Preparation and characterization of PAN–KI complexed gel polymer electrolytes for solidstate battery applications, N. Krishna Jyothi, K. K. Venkataratnam, P. Narayan Murty, K. Vijaya Kumar, Bulletin of Materials Science, 39, (2016)4, 1047-1055.

#### List of Papers Presented at International Conferences:

- 1. Chemical precursor impact on the properties of Cu2ZnSnS4 absorber layer Indu B. Vashistha, M. C. Sharma, R. Sharma, and S. K. Sharma AIP Conf. Proc. 1724 (2016) 020041, 1-5.
- Optimization studies on TiO2/Ag/TiO2 multilayer electrode for superior performance, Satyavir Singh, Vikas Sharma, Dinesh Saini, and Kanupriya Sachdev, DAE Solid State Physics Symposium 2016, AIP Conf. Proc. 1832, 080008-1–080008-3; doi: 10.1063/1.4980468. (2016).
- 3. Observation of Martensitic Transformation in Ni50Mn41Cu4Sn5Heusler Alloy Prepared by Mechanical Alloying, Dinesh Saini, Satyavir Singh, M.K. Banerjee and K. Sachdev. Conference name: Functional Oxides and Nanomaterials, AIP Conf. Proc. 1837, 040068-1–040068-3; doi: 10.1063/1.4982152, (2016).
- 4. An experimental investigation of growth and characterization of high dielectric constant thin film oxides for various applications, N. Srinivasa Rao, presented at National Symposium on Nano Science & Technology, CeNSE, IISc, Bangalore, during 29-30 June, 2016.
- 5. Growth and characterization of Au nanocrystals stacked between hafnia layers for nonvolatile memory applications, Arun Vinod, Mahendra Singh Rathore, N. Srinivasa Rao, presented at 2nd International Conference on Soft Materials, Jaipur, India during 12-16 December, 2016.
- 6. The effects of annealing temperature on formation of Genanocrystals in GeO2 matrix, Mahendra Singh Rathore, ArunVinod, N. Srinivasa Rao, presented at 2nd International Conference on Soft Materials, Jaipur, India during 12-16 December, 2016.
- 7. Tuning the Structural, Optical and Electrical Properties of TiO2 -GeO2 Nanocomposite



Thin films, Abey Thomas, Mahendra Singh Rathore, Arun Vinod, N.Srinivasa Rao, presented at, 2nd International Conference on Soft Materials, Jaipur, India during 12-16 December, 2016.

- Engineering the structural, optical and electrical properties of nanocrystalline dielectric thin films, N.SrinivasaRao, Mahendra Singh Rathore, ArunVinod, A. P. Pathak, D. K. Avasthi, F. Singh, T. Santhosh Kumar, D. Pamu, presented at Fourth International Conference on Nanostructured Materials and Nanocomposites, Kottayam, Kerala, India, during 10-12 February, 2017.
- 9. Effect of oxygen pressure on optical properties of GeOx thin films prepared by PLD, Mahendra Singh Rathore, ArunVinod, A. Rambabu, N. Srinivasa Rao, presented at International Conference on Nanomaterials and Nanotechnology, Allahabad, India, during 01-03 March, 2017.

### List of Papers Presented at National Conferences

1. N. Krishna Jyothi, K. K. VenkataRatnam, P. Narayana Murthy, K. Vijaya Kumar, Electrical Studies of Gel Polymer Electrolyte based on PAN for Electrochemical Cell Applications, Materials today: Proceedings 3 (2016) 21-30.

# FACULTY MEMBERS WHO COMPLETED PH. D. /M.TECH DURING THE YEAR2016-17: N.A.

#### **MEMBERSHIP OF PROFESSIONAL BODIES:**

S. No.	Name of Faculty	Membership
1.	Dr. K. Sachdev	Indian Association of Physics Teachers
		Plasma Science Society of India
		Thermo-Physical Society of India
		Ion Beam Society of India
2.	Dr. SrinivasaRaoNelamarri	Life Member, Nanoscience and Nanotechnology Society, India
		International Association of Advanced Materials (5 years)
		Life Member, Ion Beam Society of India



3.	Dr. KamlendraAwasthi	Member, American Chemical Society
		Life Member, Soft Materials Research Society
		Life Member, Material Research Society of India
		Life Member, Nuclear Track Society of India
		Life Member, Indian Association of Physics Teachers
		Member, European Deasilnation Society
		Life Member, Ion Beam Society of India
4.	Dr. Ashok Kumar	American Physical Society
		Optical Society of India
		Soft Materials Society
		Plasma Science Society of India
5.	Dr. KavitaLalwani	International experiments Belle and Belle II (KEK, Japan) membership
		Life member at IIT Bombay Alumni
6.	Dr. Manoj Kumar	American Physical Society, USA
		American Chemical Society, USA
		Life Member, Soft Materials Research Society
		Life Member, Material Research Society of India
		Life Member, Indian Association of Physics Teachers





## ANY OTHER DETAILS WORTH PUBLICATION IN ANNUAL REPORT2016-17

S. No.	Name of Faculty	Perticulars
1.	Dr. Kavita Lalwani	Reviewer on one paper in B-Physics
2.	Dr. K.Sachdev	Journal of Non-Crystalline Solids. Journal of Physical Chemistry Chemical Physics.

## 11.9 COURSES AND ADMISSIONS

# (a) Undergraduate Programmes (Technology/Architecture) Academic Programmes leading to B. Tech./B. Architecture Degree as noted below:

S. No.	Discipline/Duration	Year of starting
1.	Architecture (5 years)	1988
2.	Civil Engg. (4 years)	1963
3.	Chemical Engg. (4 years)	1988
4.	Computer Science & Engineering (4 years)	1994
5.	Electrical Engg. (4 years)	1963
6.	Electronics & Communication Engg. (4 years)	1984
7.	Mechanical Engg. (4 years)	1963
8.	Metallurgical & Materials Engg. (4 years)	1963

## (b) Postgraduate Programmes (Technology/Science/Management) Academic Programmes leading to M. Tech./M.Plan./M.B.A./M.Sc. Degree as noted below:

S. No.	Department	Programme	Year of starting
1.	Centre for Energy & Environment	Renewable Energy	2013
2.	Chemical Engineering	ChemicalEngineering	2006
3.	Civil Engineering	Environmental Engineering	1989
4.	Civil Engineering	Water Resources Engineering	1985



5.	Civil Engineering	CAD/Structural Engineering	1996/2006
6.	Civil Engineering	Transportation Engineering	1996
7.	Civil Engineering	Disaster Assessment and Mitigation	2010
8.	Computer Science & Engineering	Computer Engineering	2008
9.	Computer Science & Engineering	Computer Engineering & Information Security	2016
10.	Electrical Engineering	Power Systems	1987
11.	Materials Research Centre	Material Science & Engineering	2016
12.	Electrical Engineering	Power Electronics & Drives	2015
13.	Electronic & Communication Engg	VLSI Design	2006
14.	Electronic & Communication Engg	Wireless & Optical Communication	2014
15.	Electronic & Communication Engg	Embedded System	2014
16.	Electronics & Communication Engineering	Electronics & Communication Engineering	1992
17.	Mechanical Engineering	Manufacturing System Engg./ Industrial Engineering	1996/2013
18.	Mechanical Engineering	Energy/Thermal Engineering	2006/2013
19.	Mechanical Engineering	Production Engineering	2013
20.	Mechanical Engineering	Design Engineering	2013
21.	Metallurgical & Materials Engg.	Non Ferrous Met./Metallurgical & Materials Engg	1971/2006
22.	Metallurgical & Materials Engg.	Steel Technology	2013
23.	Architecture & Planning	Urban Planning	2008
24.	National Centre of Disaster Mitigation & Management	Earthquake Engineering	2015
25.	Chemistry	M.Sc. Applied Chemistry	2006
26.	Mathematics	M.Sc. Applied Mathematics	2006
27.	Physics	M.Sc. Applied Physics	2006
28.	Management Studies	MMS/M.B.A.	1996/2006





## **STUDENTS INTAKE**

## (a) Undergraduate Programmes

The allocation of 710 seats for students from Rajasthan & other than Rajasthan states for the session 2016-17 are as follows

Malaviya	National ]	Institute of Techno	ology .	Jaipur							
	Degree	Branch	OP	OPPH	SC	SCPH	ST	STPH	OBC	OBCPH	Total
	B.Arch.	Architecture	15	1	5	0	2	0	8	0	31
	B.Tech.	Civil Engg.	23	0	7	0	3	1	12	0	46
	B.Tech.	Chemical Engg.	23	0	6	1	4	0	12	0	46
	B.Tech.	Computer Science & Engg.	23	1	7	0	3	0	12	1	47
Other	B.Tech.	Electrical Engg.	22	1	7	0	4	0	13	0	47
than Rajasthan	B.Tech.	Electronics & Communication Engg.	23	0	7	0	3	0	12	1	46
	B.Tech.	Mechanical Engg.	22	1	6	1	4	0	12	0	46
	B.Tech.	Metallurgical & Materials Engg.	22	1	7	0	3	0	13	0	46
		TOTAL (A)	173	5	52	2	26	1	94	2	355
	B.Arch.	Architecture	15	0	4	0	2	1	9	0	31
	B.Tech.	Civil Engg.	22	1	7	0	3	0	12	1	46
	B.Tech.	Chemical Engg.	22	1	7	0	3	0	13	0	46
	B.Tech.	Computer Science & Engg.	22	1	7	0	4	0	12	0	46
	B.Tech.	Electrical Engg.	23	0	6	1	3	0	12	1	46
Rajasthan	B.Tech.	Electronics & Communication Engg.	23	1	7	0	4	0	12	0	47
	B.Tech.	Mechanical Engg.	23	0	7	0	3	0	13	1	47
	B.Tech.	Metallurgical & Materials Engg.	22	1	6	1	4	0	12	0	46
		TOTAL (B)	172	5	51	2	26	1	95	3	355
	GRAN	D TOTAL (A+B)	345	10	103	4	52	2	189	5	710



The allocation of 19 seats for students from Foreign Nationals through Indian Council for Cultural Relations (ICCR) & Ministry of External Affairs in UG programmes for the session 2016-17

Branch	MEA (Education)	MEA (Welfare)	ICCR	Total
Architecture (5 years)	1	-	1	2
Civil Engg. (4 years)	4	2	-	6
Chemical Engg. (4 years)	-	1	-	1
Computer Science & Engg. (4 years)	-	-	-	-
Electrical Engg. (4 years)	1	-	3	4
Electronics & Communication Engg. (4 years)	-	1	1	2
Information Technology (4 years)	-	-	-	-
Mechanical Engg. (4 years)	3	1	-	4
Metallurgical & Materials Engg. (4 years)	-	-	-	-
TOTAL	9	5	5	19

The allocation of 55 seats for students from DASA Scheme in UG programmes in 2016-17

Branch/Duration	Approved Annual Intake
Architecture (5 years)	04
Civil Engg. (4 years)	07
Chemical Engg. (4 years)	03
Computer Science and Engg. (4 years)	10
Electrical Engg. (4 years)	07
Electronics & Communication Engg. (4 years)	11
Mechanical Engg. (4 years)	10
Metallurgical & Materials Engg. (4 years)	03
TOTAL	55





## (b) Postgraduate Programmes

Statement showing the intake capacity (branch wise) for admission to Postgraduate programmes for the year 2016-17

S. No.	Programme	OC	OB	SC	ST	OC- PWD	OB- PWD	SC- PWD	ST- PWD	Sponsored	РТ	Total
1.	Urban Planning	10	5	3	2	0	0	0	0	5	6	31
2.	Renewable Energy	10	5	3	2	0	1	0	0	5	6	32
3.	Chemical Engg.	10	5	3	2	0	0	1	0	5	6	32
4.	Disaster Assessment and Mitigation	8	3	2	1	1	0	0	0	5	6	26
5.	Earthquake Engg.	8	4	2	1	0	0	0	0	0	0	15
6.	Environmental Engg.	8	3	2	1	1	0	0	0	5	6	26
7.	Structural Engg.	8	3	2	1	0	1	0	0	5	6	26
8.	Transportation Engg.	8	3	2	1	0	0	0	1	5	6	26
9.	Water Resources Engg.	8	3	2	1	0	0	0	0	5	6	25
10.	Computer Engg.	10	5	3	2	1	0	0	0	5	6	32
11.	Power Electronics & Drives	10	5	3	2	0	0	0	0	0	0	20
12.	Computer Engineering & Information Security	10	5	3	2	1	0	0	0	0	0	21
13.	Power Systems	10	5	3	2	0	0	0	0	5	6	31
14.	Electronics & Communication Engg.	10	5	3	2	0	0	1	0	5	6	32
15.	Embedded Systems	10	5	3	2	0	0	0	0	0	0	20
16.	VLSI Design	10	5	3	2	1	0	0	0	5	6	32
17.	Wireless & Optical Communication	10	5	3	2	0	0	0	0	0	0	20
18.	Design Engg.	8	3	2	1	1	0	0	0	0	0	15
19.	Industrial Engg.	10	5	3	2	0	1	0	0	5	6	32
20.	Production Engg.	8	3	2	1	0	0	0	0	0	0	14
21.	Thermal Engg.	8	4	2	1	0	0	0	0	0	0	15
22.	Metallurgical & Materials Engg.	10	5	3	2	0	0	0	0	5	6	31
23.	Steel Technology	8	3	2	1	0	0	0	0	5	6	25
24.	Materials Science & Engineering	10	5	3	2	0	0	0	0	0	0	20
	Total	220	102	62	38	6	3	2	1	75	90	599



S. No.	Programme	OC	OB	SC	ST	OC- PWD	OB- PWD	SC- PWD	ST-PWD	Total
1.	M.Sc. in Physics	16	8	5	2	1	0	0	0	32
2.	M.Sc. in Chemistry	16	8	5	2	0	0	1	0	32
3.	M.Sc. in Mathematics	16	8	5	2	0	0	0	1	32
	Total	48	24	15	6	1	0	1	1	96

S. No.	Programme	OC	OB	SC	ST	OC- PWD	OB- PWD	SC- PWD	ST-PWD	Total
1.	MBA#	31	17	09	05	0	0	0	0	62
	Total	31	17	9	5	0	0	0	0	62

#As per institute policy 3% of the total seats (2 nos.) are reserved for PH category in the programme over and above the sanction strength.

## Intake of Foreign Nationals under the DASA Scheme in PG programmes in 2016-17

S. No.	Programmes	Intake
1.	M. Planning in Urban Planning	2
2.	Chemical Engineering	2
3.	Computer Science & Engineering	2
4.	Electronics & Comm. Engg.	2
5.	Industrial Engg.	2
6.	Metallurgical & Materials Engg.	2
7.	Power Systems	2
8.	Structural Engg.	2
9.	Thermal Engineering	2
10.	Transportation Engg.	2
11.	VLSI Design	2
12.	M.B.A.	5
	TOTAL	27





## **COURSE WISE ADMISSION STATISTICS-UG/PG PROGRAMMES**

(a) Students admitted to Undergraduate B. Tech./B.Arch. programmes through CSAB (JoSAA) during the session 2016-17

S. No.	Branch	OP	OP PH	OBC	OBC PH	SC	SCPH	ST	STPH	Total
1.	Architecture	24	0	19	0	8	0	4	0	55
2.	Chemical Engg.	39	1	24	0	12	1	6	0	83
3.	Civil Engg.	40	0	26	2	13	0	6	1	88
4.	Computer Science & Engg.	42	1	27	2	14	0	7	0	93
5.	Electronics & Communication Engg.	39	1	25	1	14	0	7	0	87
6.	Electrical Engg.	44	1	25	1	13	1	7	0	92
7.	Mechanical Engg.	38	1	31	1	13	1	6	0	91
8.	Metallurgical & Materials Engg.	38	1	25	1	12	0	6	0	83
	TOTAL	304	6	202	8	99	3	49	1	672

# (b) Students admitted to Undergraduate B. Tech./B.Arch. programmes through DASA during the session 2016-17

S. No.	Branch		DASA	
		CIWG	NON-SAARC	SAARC
1.	Architecture	1	0	0
2.	Chemical Engg.	1	1	0
3.	Civil Engg.	2	0	3
4.	Computer Science & Engg.	3	6	1
5.	Electronics & Communication Engg.	4	4	2
6.	Electrical Engg.	2	0	0
7.	Mechanical Engg.	4	5	1
	TOTAL	17	16	7



(c) Students admitted to Undergraduate B. Tech./B.Arch. programmes through ICCR/MEA during the session 2016-17

S. No.	Branch	ICCR	MEA Welfare	MEA Education
1.	Architecture	0	0	1
2.	Chemical Engg.	1	1	0
3.	Civil Engg.	1	2	1
4.	Electronics & Comm. Engg.	1	1	0
5.	Electrical Engg.	0	0	1
6.	Mechanical Engg.	0	1	1
	TOTAL	3	5	4

# (d) Students admitted to Postgraduate Programmes during the session 2016-17 in M.Tech. / M.Plan./M.Sc./M.B.A. programmes

S. No.	Programmes	General	ST	SC	OBC	Sponsored	Part Time	Total
1.	Urban Planning	5	2	2	6	1	0	16
2.	Renewable Energy	6	2	4	4	1	0	17
3.	Chemical Engineering	6	1	1	0	0	0	8
4.	Disaster Assessment and Mitigation	7	1	2	3	0	0	13
5.	Earthquake Engineering	5	2	1	4	0	0	12
6.	Environmental Engineering	6	1	2	5	8	1	23
7.	Structural Engineering	5	0	2	6	2	2	17
8.	Transportation Engineering	6	1	2	4	1	3	17
9.	Water Resources Engineering	5	1	3	4	1	0	14
10.	Computer Engineering	6	1	3	5	2	3	20





11										
11.	Power Electronics & Dri	ives 5		2	2	8		0	0	17
12.	Power Systems	5		3	3	6		1	1	19
13.	Electronics & Communication Enginee	ring 5		1	2	7		1	1	17
14.	Embedded Systems	8		2	3	5		0	0	18
15.	VLSI Design	8		2	3	1		0	2	16
16.	Wireless & Optical Communication	1		2	5	7		0	0	15
17.	Design Engineering	6		1	2	3		0	0	12
18.	Industrial Engineering	g 8		2	3	5		1	3	22
19.	Production Engineerin	ig 7		1	2	3		0	0	13
20.	Thermal Engineering	; 4		1	2	3		0	0	10
21.	Metallurgical & Materia Engineering	als 4		2	3	3		1	2	15
22.	Computer Engineering Information Security			2	4	5		0	0	13
23.	Material Science & Engineering	3		1	1	3		0	0	08
24.	Steel Technology	0	· · · ·	0	2	1		0	0	3
	TOTAL	123	34	1 5	9	101	20		18	355
	I		<u> </u>			M. Sc.			I	
M. Sc	. Physics	12	1	1 2	2	8	0		0	23
M. Sc	. Chemistry	11	2	5	5	10	0		0	28
M. Sc	. Mathematics	11	3	5	5	10	0		0	29
	TOTAL		6	1	2	28	0		0	80
			I			M.B.A				
M.B.A	A.	24	0	4		5	0		0	33
	GRAND TOTAL		M	. Tech	/ <b>M.</b> P	lan/M.	Sc./ME	A		468



## (e) Students admitted to Ph.D. Programmes 2016-17 (July 2016)

S. No.	Department	Students	admitted
5.110.	Department	Full Time	Part Time
1.	Architecture & Planning	3	0
2.	Centre for Energy & Environment	3	0
3.	Chemical Engineering	4	1
4.	Chemistry	6	2
5.	Civil Engineering	5	2
6.	Computer Science & Engineering	4	3
7.	Electrical Engineering	3	1
8.	Electronics & Communication Engineering	3	2
9.	Mathematics	1	0
10.	Mechanical Engineering	4	3
11.	Metallurgical & Materials Engineering	1	0
12.	National Centre for Disaster Mitigation and Management	0	1
13.	Physics	3	1
14.	Management	3	0
15.	Humanities & Social Sciences	1	1
16.	Material Research Centre	1	1
	Total	45	18





S. No.	Department	Students a	admitted
5.110.	Department	Full Time	Part Time
1.	Centre for Energy & Environment	1	0
2.	Chemical Engineering	3	0
3.	Chemistry	5	0
4.	Civil Engineering	9	2
5.	Computer Science & Engineering	3	0
6.	Electrical Engineering	2	0
7.	Electronics & Communication Engineering	2	1
8.	Humanities & Social Sciences	1	1
9.	Management Studies	4	0
10.	Material Research Centre	1	0
11.	Mathematics	0	1
12.	Mechanical Engineering	5	2
13.	National Centre for Disaster Mitigation and Management	1	0
14.	Physics	3	0
	Total	40	7

## (f) Students admitted to Ph.D. Programmes 2016-17 (January 2017)



## **11.10 SCHOLARSHIPSANDAWARDS**

## For Postgraduate courses students

S.No.	Name of Scholarship	Address	Amount	Conditions
1.	Government of India (MHRD) New Delhi	MHRD New Delhi	Rs. 12400/- PM	For M. Tech./M.Plan (GATE Qualified Candidates)
2.	Scholarship to sponsored candidates QIP (Poly) Scheme scholarship from AICTE New Delhi	Advisor All Indian Council for Technical Education Sports Complex IP Estate New Delhi-110002	Rs. 9000/- PM + contingency Rs. 5000/- PA	For M. Tech.

### For Ph.D. Scholars

S.No.	Name of Scholarship	Address	Amount	Conditions
1.	CSIR-UGC Fellowship	CSIR Complex PUSA New Delhi	JRF/SRF/RA+HRA	For Ph.D.
2.	Institute Fellowship JRF/SRF	Institute	Rs. 25000/- for first two years and Rs. 28000/ for next three years	For Ph.D.
3.	Scholarship to Sponsored Candidates QIP (Poly) Scheme Scholarship from AICTE New Delhi	Advisor All India Council of Technical Education Ports Complex IP Estate New Delhi -110002	Rs. 15000/- PM + Contingency Rs. 15000/ PA	For Ph.D.

## Various State level Scholarships for Post Merit Students/SC/ST/OBC/SBC/PH ETC.

### For the Year 2016-17

S. No.	Respective State - Govt.	Board of Higher Education/Board of Higher Secondary/Technical Education/State Govt./Central Govt. Etc.	
1	Bihar	Post Metric Scholarship,	
2	Jharkhand	Post Metric Scholarship	
3	Orissa	Post Metric Scholarship	
4	Gujarat	Post Metric Scholarship, Chief Minister Scholarship, Gujarat	
5	Uttarakhand	Post Metric Scholarship	
6	Maharashtra	Post Metric Scholarship / National and State Merit Scholarship	



7	M. P.	Post Metric Scholarship, Bhopal, etc. / National Scholarship M.P.	
8	Goa	Post Metric Scholarship	
9	West Bengal	Post Metric Scholarship, Kolkata	
10	U. P.	Post Metric Scholarship Lucknow	
11	Manipur	Post Metric Scholarship Imphal	
12	Punjab	Post Metric Scholarship	
13	J & K	Post Metric Scholar ship	
14	Andman Nicobar	Post Metric Scholarship	
15	Kerala	Post Metric Scholarship Thiruvananthapuram	
16	Tripura	Post Metric Scholarship / State Merit Agartella	
17	Andhra Pradesh	Post Metric Scholarship Hyderabad	
18	Assam	Post Metric Scholarship/ Technical Engineering Merit Scholarship Khilapara, Guwhati	
19	Tamilnadu	Post Metric Scholarship / Adi Dravidar Tribal Welfare (Chennai)	
20	Haryana	Post Metric Scholarship	
21	Nagaland	Post Metric Scholarship Kohima	
22	Karnataka	Post Metric Scholarship Karnata ka	
23	Himachal Pradesh	Post Metric Scholarship /Brilliance Merit	
24	NCT Of New Delhi	Merit Scholarship, Dept. For the Welfare of SC/ST/OBC/MIN.	
25	Meghalaya	State Merit Scholarship /North Eastern Council plan Shillong	
26	Chattisgardh	Technical Educat ion Scholarship Raipur	
27	Govt. of Rajasthan	Post Metric Scholarship Dy. Director Social Welfare Dept. SC/ST/OBC/SBC	



28	Govt. of Rajasthan	Physical Handicapped scholarship Social Welfare Dept.	
29	Rajasthan Board	Board of Secondary Education, Rajasthan A jmer and CBSE	
30	CBSE Board	All CBSE Board Scholarship	
31	Telangana	Post Metric Scholarship	

## POSTGRADUATE SCHOLARSHIP AND AWARDS (2016-17)

## For Postgraduate courses students

S.No.	Name of Scholarship	Address	Amount	Conditions
1.	Government of Inlia (MHRD) New Delhi	MHRD New Delhi	Rs. 12400/- PM	For M. Tech./M.Plan (GATE Qualified Candidates)
2.	Scholarship to sponsored candidates QIP (Poly) Scheme scholarship from AICTE New Delhi	Advisor All Indian Council for Technical Education Sports Complex IP Estate New Delhi-110002	Rs. 9000/- PM + contingency Rs. 5000/- PA	For M. Tech.

## For Ph.D. Scholars

S.No.	Name of Scholarship	Address	Amount	Conditions
1.	CSIR-UGC Fellowship	CSIR Complex PUSA New Delhi	JRF/SRF/RA+HRA	For Ph.D.
2.	Institute Fellowship JRF/SRF	Institute	Rs. 25000/- for first two years and Rs. 28000/ for next three years	For Ph.D.
3.	Scholarship to Sponsored Candidates QIP (Poly) Scheme Scholarship from AICTE New Delhi	Advisor All India Council of Technical Education Ports Complex IP Estate New Delhi -110002	Rs. 15000/- PM + Contingency Rs. 15000/ PA	For Ph.D.





### **11.11** Training and Placement

#### Salient Features of Placement Session 2016-17 (Till .....)

- Highest Pay Package Rs. 29 LPA to 3 B.Tech. Students of Computer Engineering by DE Shaw
- Average Package of Placed Students (B.Tech) 6.95 LPA
   Number of Offers given to Students 489 (415 B. Tech, 74 PG Courses)
- Number of Students who have been given Pre Placement Offers (PPOs) 12
- Numbers of Companies Visited 120
- Overall Average package( UG + PG) 6.68 LPA
- More than 120 companies have visited for recruitment since 2016 July.

### **PROMINENT COMPANIES VISITED:**

Accolite, Adobe, Affine Analytics, Amazon, Analytics Quotient, Arcesium, Axis Bank, Bajaj Autos, BEL, Bosch, C Dot, Cairn India, Capgemini, Carwale, Chambal Fertilizers, Cvent, De Shaw, Deloitte, Deustche Bank, Edelweiss, Endurance, Essar Steel, EXL, Fidelity, Fractal, Futures First, GE, Goldman Sachs, Gram Power, HCL, Hero MOTO Corp, HPCL- MEL, HSBC, IGL, Infosys, Ittiam, KEC, L&T ECC, Mahindra, Maruti Morgan Stanley, Nokia, OPAL, Oracle-Gbu, Paytm, POwer2SME, Qualcomm, REIL, Salesforce, Samsung, Schaeffler, Shopclues, Smartprix, Subros, Tata Motors, Tata projects, Texas, Ujaas Energy, Vedanata, Vodafone, Wipro Analytics, Wooqer.

#### **TOTAL NUMBER OF OFFERS: 508**

- B.Tech 434

- PG 74

### **TOTAL STUDENTS PLACED: 451**

- B.Tech 383

- PG 68

#### **Internship statistics:**

Total number of Internships (Paid) offered to 3rd year students : 78

Highest pay package among Interns: 1 Lakh/Month. Offered to 5 students by D.E. Shaw & Arcesium.

### Major Companies visited campus for Internship are:

D.E.Shaw, Amazon, Arcesium, Fidelity, Salesforce, Deloitte, Cairn India, Wooqer, Texas instruments, JP Morgan, Hero Motocorp, Wipro.



## **Brach wise Placements:**

Branch Name	No. of Placed Students
CHEMICAL ENGINEERING	42
CIVIL ENGINEERING	39
COMPUTER ENGINEERING	72
ELECTRONICS & ELECTRICAL Engg.	68
ELECTRICAL ENGINEERING	50
MECHANICAL ENGINEERING	65
METALLURGICAL & MATERIALS Engg.	47
PG COURSES	68
TOTAL	451

## Package Details(in LPA):

Maximum	Average	Minimum
29	6.68	2.75

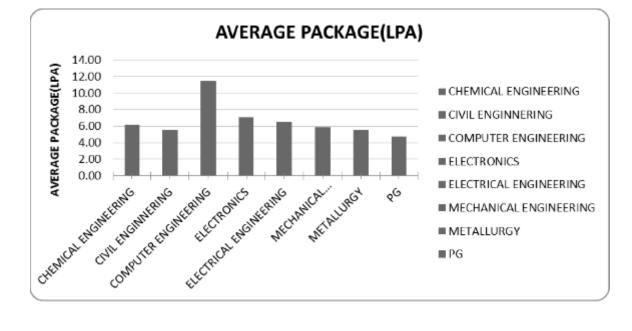
## **Branch Wise Placement Offers:**

S. No.	Branch Wise Placement Stats	No of Offers
01.	Chemical Engineering	48
02.	Computer Engineering	75
03.	Civil Engineering	46
04.	Electronics & Communication Engg.	77
05.	Electrical Engineering	59
06.	Mechanical Engineering	75
07.	Metallurgical & Materials Engineering	54
08.	PG Courses	74



S. No.	Branch	Maximum	Minimum	Average
01.	Chemical Engineering	7.95 (VEDANTA)	4.2	6.12
02.	Civil Engineering	10 (EDELWEISS)	3.25	5.59
03.	Computer Engineering	29 (D.E.Shaw)	3.25	11.4
04.	Electronics & Communication Engg.	14.5 (Qualcomm)	3	7.03
05.	Electrical Engineering	16 (Texas instruments)	3.25	6.51
06.	Mechanical Engineering	10 (Edelweiss)	3.25	5.84
07.	Metallurgical & Materials Engineering.	9.2 (Futures First)	3	5.57
08.	PG Courses	8.5 (GE)	2.75	4.77

**Branch Wise Average Package (IN LPA):** 





# INDUSTRIAL VISITS











Mohan Veena Recital by Pandit Vishwa Mohan Bhatt on 8 Nov. 2016 in Mini Auditorium organized by SPIC MACAY Society, MNIT Jaipur









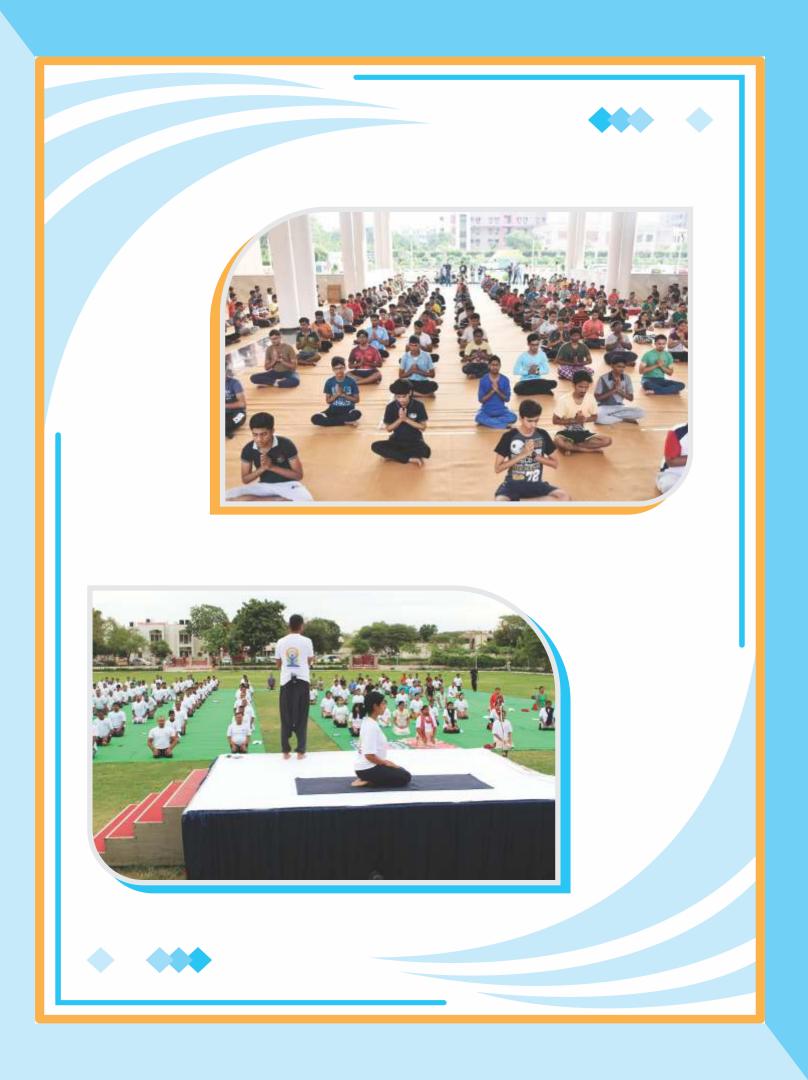






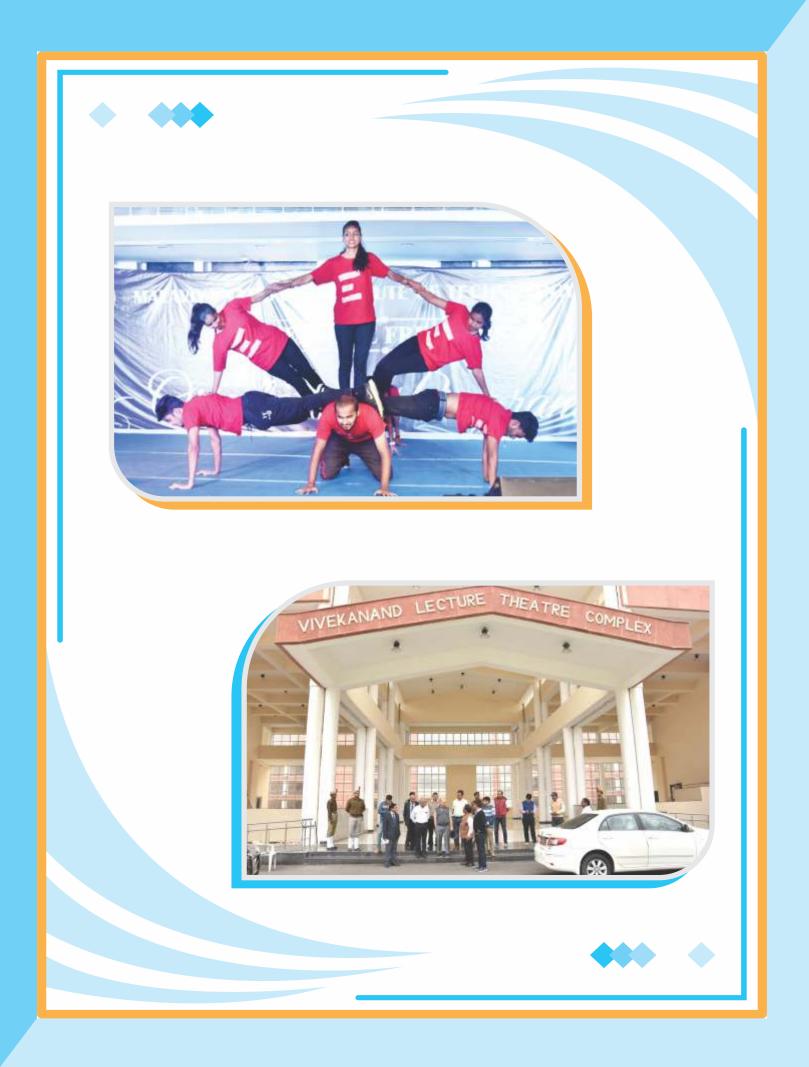
















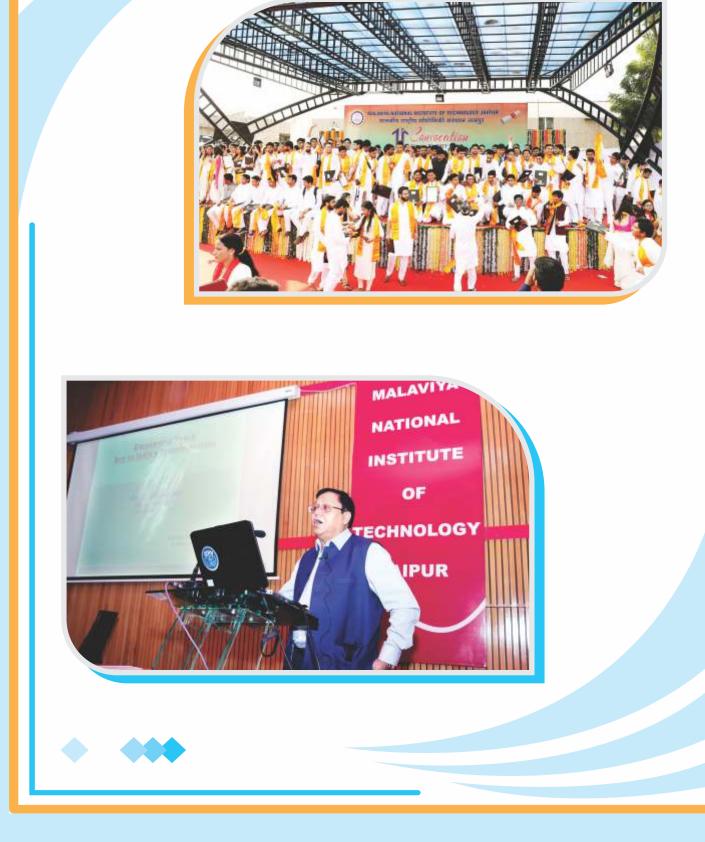
























# Part II Annual Accounts



संख्या / No.....

भारतीय लेखापरीक्षा और लेखा विभाग कार्यालय प्रधान निदेशक लेखापरीक्षा (केन्द्रीय),अहमदाबाद शाखा कार्यालय राजस्थान, जनपथ, जयपुर-302005

INDIAN AUDIT AND ACCOUNTS DEPARTMENT Office of the Principal Director of Audit(Central), Ahmedabad Branch office Rajasthan, Janpath, Jaipur-302 005

दिनांक / Date......20

To, The Secretary, GOI Ministry of Human Resources Development, Department of Secondary & Higher Education, Shastri Bhawan New Delhi-110001

> Sub.: Separate Audit Report on the accounts of Malviya National Institute of Technology, Jaipur for the year 2016-17.

Sir,

Please find enclosed the Separate Audit Report on the accounts of Malviya National Institute of Technology, Jaipur for the year 2016-17 along with copy of Annual Accounts.

2. The Audited accounts and Separate Audit Report required to be placed before the AGM of the Apex Governing Body of the Institute for consideration and adoption and resolutions passed thereon before these are sent by the Ministry for being placed before parliament.

3. The dates of presentation of Audited Accounts and Separate Audit Report before the Parliament may please be intimated. Five sets of printed documents (Audit Report, Annual Report & Audited Accounts) may also please be sent to this office.

4. Hindi version of the Separate Audit Report will be issued shortly.

Kindly acknowledge receipt of the documents.

Encl.: As above

Yours sincerely, Solf-Deputy Director/CRA-II

CRA-IL/ EAP. SAR/MNIT/16-17/22-45 25.1.18 Copy of the Separate Audit Report and Audited Accounts forwarded to The Director, Malviva

National Institute of Technology, JNL Marg, Jaipur-302017 with the remarks to ensure that Audited Accounts and Separate Audit Report is adopted/considered in the AGM of Institute's Apex Governing Body and resolution adopted/considered on the Audited Accounts and report thereon may be furnished to this office.

Encl : As above

Mahalekhakar Bhawan, Janpath, Jaipur-302005 Phone/कोन : 0141-2385431-39 E-mail : brpdacahmedabad@cag.gov.in

महालेखाकार भवन, जनपथ, जयपुर-302005 फैक्स/Fax : 0141-2385038, 2227686 Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of the Malaviya National Institute of Technology (MNIT), Jaipur for the year ended 31 March 2017

We have audited the attached Balance Sheet of the Malaviya National Institute of Technology (MNIT), Jaipur as at 31 March 2017, the Income and Expenditure Account and the Receipts and Payments Accounts for year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act 1971 read with Section 22(2) of the National Institute of Technology Act, 2007. These financial statements are the responsibility of MNIT's management. Our responsibility is to express an opinion on these financial statements based on our audit.

- 2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (C&AG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards, disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/C&AG's Audit Reports separately.
- 3. We have conducted our audit in accordance with the auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.
  - 4. Based on our audit, we report that:
  - We have obtained all the informations and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.
  - ii. The Balance Sheet, Income & Expenditure Account and Receipts & Payments Account, dealt with by this report have been drawn up in the format approved by Ministry of Human Resources Development, Government of India vide order No. 29-4/2012-FD dated 17 April 2015.

iii. In our opinion, proper books of accounts and other relevant records have been maintained by the Institute in so far as it appears from our examination of such books.

We further report that:

Comments on Accounts:

A Balance Sheet

A.1 Liabilities

A 1.1 Schedule-3: Current Liabilities & Provisions ₹ 37.11 crore.

A1.1.1 (A) Current Liabilities 6(d) unutilized grants ₹ (-) 45.01 crore

The institute has shown unutilized grants from UGC, Government of India and state Government under plan and non-plan head amounting to ₹ (-) 4501 lakh (schedule -3(A6(d)) under the head of Current Liabilities & Provision. It should have been shown as grant receivable under the head of Loans Advances & Deposits of Assets side instead of liabilities side.

This has resulted in understatement of Liabilities and Asset by ₹4501 lakh.

B Assets

B.1.1 Schedule-8: Loans Advance &Deposits ₹32.22 crore.

This includes prepaid expenses amounting to ₹18.04 lakh booked during 2015-16. The prepaid amount should have been credited during the financial year 2016-17.

This has resulted in overstatement of Asset as well as surplus by ₹18.04 lakh.

B.1.2Schedule-4: Fixed Assets- capital work-in progress ₹ 247.10 crore.

This includes construction of 1st and 1Ind floor of design centre and work of Automation solution, external development and additional work in design centre MNIT Jaipur amounting to ₹12.35 crore, which had been completed and handed over to the Institute by the executing agency during the months of May to August 2016.

Non-capitalizing the completed buildings resulted in overstatement of Capital Work in Progress by ₹ 1235 lakh, understatement of fixed assets by ₹1185.60 lakh (₹1235 lakh less Depreciation of ₹49.40 lakh) and overstatement of Surplus by ₹49.40 lakh.

C Income and Expenditure Account

C .1 Expenditure

#### C.1.1. : Repairs & Maintenance (Schedule-19) ₹182.21 lakh

#### C.1.1.1. Repairs/renewal of Furniture & Equipment amounting ₹48.25 lakh

This includes ₹6.26 lakh paid for annual maintenance contract and filling of Liquid Helium for the period 30.01.2017 to 29.01.2018. The expenditure amounting to ₹5.22 lakh pertain to next financial year 2017-18 and should have been booked under prepaid expenses.

This has resulted in understatements of current Assets as well as surplus by ₹5.22 lakh.

C.1.1.2. Schedule-15A: Employee Retirement and Terminal Benefits ₹ (-) 32.15 crore.

The Institute had not made provision for Pension liability of employees, existing pensioner and Family pensioner amounting to ₹9733 lakh, ₹3646 lakh and₹813 lakh respectively on the basis of actuarial valuation.

This has resulted in understatement of liabilities and overstatement of surplus by ₹141.92 crore.

#### D. General

(i) MNIT Jaipur revised its Depreciation Policy in the year 2014-15 by adopting Straight Line Method in place of Written-Down Method of depreciation. However, neither impact of depreciation has been ascertained nor balances of Fixed Assets have been adjusted in accordance with Accounting Standard-6 on Depreciation. Hence depreciation as well as amount of depreciable Fixed Assets could not be verified by Audit. Despite commenting in last year Separate Audit Report the matter is still unresolved.

#### E. Grant-in- Aid

In the beginning of year 2016-17 ₹ (-) 10202.25 lakh was receivable from Government of India. During the year 2016-17 the MNIT received grant-in-aid of ₹ 13530 lakh (Plan ₹ 8500 lakh and Non-Plan ₹ 5030 lakh) and ₹ 189.98 lakh as other grant from Government of India (plan ₹ 790 lakh and Non Plan ₹ 1110 lakh received in March 2017). The institute could utilize a sum of₹11339.64 lakh (Plan ₹6623.68 lakh and Non-Plan ₹ 4715.96 lakh). It earned income (IRG) ₹ 3320.41 lakh during the year. Balance of ₹ -4501.50 lakh was receivable as on 31<sup>st</sup> March 2017.

#### F. Net Impact of Comments on Accounts

The net impact of comments given in the preceding paras is that as on 31<sup>st</sup> March, 2017, the assets were understated by ₹ 4438.78 lakh, liabilities were understated by ₹ 18693lakh and surplus was overstated by ₹ 14254.22 lakh.

- Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report are in agreement with the books of accounts.
- vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters, stated above and other matters mentioned in Annexure to this Separate Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.

a. In so far as it relates to the Balance Sheet, of the state of affairs of the Malaviya National Institute of Technology, Jaipur as at 31 March 2017, and b. In so far as it relates to Income & Expenditure Account of the Surplus for the year ended on that date.

For and on behalf of the C &A G of India

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Principal Director of Audit (Central) Ahmedabad

Place: Date:



प्रधान निदेशक लेखा परीक्षा (केन्द्रीय) अहमदाबाद Principal Director of Audit (Central) Ahmedabad

अर्चना गुर्जर, आई.ए.ए.एस. Archana Gurjar, IAAS

D.O.No. CRA-II (Exp.)/SAR/MNIT/2016-17

Dear Rig Yaeagatlip,

The <sup>V</sup>Annual Accounts of the Malaviya National Institute of Technology, Jaipur for the year 2016-17 were audited by this office for which a Separate Audit Report has been issued vide letter No. CRA II (Exp.)/SAR/MNIT/2016-17 2243-45 dated  $25\cdot1\cdot18$  .During the course of audit, certain minor deficiencies were also noticed which have not been included in the Separate Audit Report. These are annexed herewith for corrective and remedial action.

Best wisher.

Yours Sincerely,

Achana Cinjan

Prof. Uday Kumar Yaragatti Director, MNIT, Jaipur MNIT Jaipur, JLN Marg, Jaipur – 302017

#### Annexure

(a) MNIT Jaipur did not account for consultancy charges of Rs 1.24 lakh in the year 2015-16. It had resulted in understatement of Current Liabilities as well as Current Assets by Rs 1.24 lakh. Despite commenting in last year's Separate Audit Report, the matter is still unresolved.

(b) Bank Reconciliation Statement (BRS) of SB A/c No. 676801139624 with ICICI Bank contained an item –clerical error by the bank amounting to Rs 21959.00 which has been deducted from the cash book balance. However, no such entry has been traced in the bank statement for the period 01-04-2015 to 31-03-2016 given by the bank hence the BRS was not complete to that extent. Despite of commenting in last year Separate Audit Report the matter is still unresolved.

# Annexure to draft Separate Audit Report on the Accounts of MNIT, Jaipur for the year 2016-17

#### 1. Adequacy of Internal Audit System

Internal Audit was not conducted by the personnel of the Institute during the year

2016-17

Internal audit pre check on all the bills & Vouchers.

- Internal audit reports to Registrar.
- However, there was no internal audit manual.
   As such, on an average, the internal audit system was adequate.
- 2 Adequacy of Internal Control
- There was well defined organizational structure and organizational chart.
- Quarterly and annual expenditure reports were submitted to MHRD
- Accounts heads were as per New Format of Accounts of MHRD.
- Physical verification of fixed Assets in 15 Departments was completed during the year.
- Ordinarily 4 meetings of BOG, Finance Committee (FC), Senate and Building & Works Committee (B&WC) are to be held in a year as per provisions of Statute. However, only three meetings (06.04.2016, 25.10.2016 and 22.03.2017) of B.O.G, F.C., Senate, and B&WC were held during the year.
- · As such, on an average, the internal control system was adequate.
- 3 Physical Verification of Assets

Out of 41 Department, Physical verification of fixed Assets in 15 Departments was completed during the year.

#### 4 Physical Verification of Inventory

Out of 41 Department, Physical verification of inventory in 15 Departments was completed during the year.

#### 5 Regularity in payment of Statutory Dues

MNIT was regular in payment of Statutory dues

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Sr. Audit Officer/CRA-II

#### Statement of Net effect of Audit of

#### Malaviya National Institute of Technology, Jaipur for the year 2016-17.

(₹ in lakh)

S. No	Comments	Liab	ilities	Assets		Surplus		
		Overstated	Understated	Overstated	Understated	Overstated	Understated	
1	A.1.1.1		4501		4501	-	-	
2	B.1.1		-	18.04		18.04		
3	B.1.2			1235	1185.60	49.40		
4	C1.1.1				5.22		5.22 .	
5	C.1.1.2		14192			14192		
	Total		18693	1253.04	5691.82	14259.44	5.22	

Understated Liabilities ₹ 18693 lakh understated Assets ₹ 4438.78 lakh Surplus overstated ₹ 14254.22 lakh

Surplus Overstated	=	₹14254.22 lakh
Assets Understated	=	₹ 4438.78 lakh <sup>*</sup>
Liabilities Understated	=	₹18693 lakh

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Sr. Audit Officer/CRA-II



# **Annual Accounts** 2016 – 17



Malaviya National Institute of Technology Jaipur J.L.N. Marg, Jaipur – 302017





## MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

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### **Balance Sheet as on 31st March 2017**

			Amount in Lakh
Sources of Funds	Schedule	Current Year	Previous Year
CORPUS/CAPITAL FUND	1	43,006.20	36,247.52
DESIGNATED / EARMARKED / ENDOWMENT FUNDS	2	7,558.28	6,294.52
CURRENT LIABILITIES AND PROVISIONS	3	3,711.56	6,668.41
TOTAL		54,276.04	49,210.45
ASSETS			
FIXED ASSETS	4	41,956.86	38,641.07
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5	1,099.99	2,763.40
INVESTMENTS - OTHERS	6	-	-
CURRENT ASSETS	7	7,997.03	5,141.65
LOANS ADVANCES AND DEPOSITS	8	3,222.16	2,664.33
TOTAL		54,276.04	49,210.45

Significant Accounting Policies

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Contingent Liablities and Notes to Accounts

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Director



			Amount in Lakh
Particulars	Schedule	Current Year	<b>Previous Year</b>
INCOME			
ACADEMIC RECEIPTS	9	2,537.57	2,378.41
GRANTS / SUBSIDIES	10	6,264.69	5,672.68
INCOME FROM INVESTMENTS	11	0.00	0.00
INTEREST EARNED	12	162.30	427.61
OTHER INCOME	13	620.24	556.53
PRIOR PERIOD INCOME	14	1.54	9.25
PROVISION OF GRATUITY WRITTEN BACK		1,844.77	0.00
PROVISION OF ENCASHMENT OF LEAVE ON		1,370.19	0.00
RETIREMENT WRITTEN BACK		,	
TOTAL(A)		12,801.31	9,044.47
EXPENDITURE	1.5	<pre></pre>	
STAFF PAYMENTS AND BENEFITS	15	6,892.09	7,641.36
(ESTABLISHMENT EXPENSES)			
ACADEMIC EXPENSES	16	1,567.75	1,548.89
ADMINISTRATIVE AND GENERAL EXPENSES	17	966.25	1,046.94
TRANSPORTATION EXPENSES	18	8.81	2.12
<b>REPAIRS AND MAINTENANCE</b>	19	182.21	168.00
FINANCE COSTS	20	0.00	2.54
OTHER EXPENSES	21	0.00	0.00
PRIOR PERIOD EXPENSES	22	-9.92	75.93
DEPRECIATION	4	987.09	995.15
TOTAL(B)		10,594.27	11,480.93
Balance being excess of Income over Expenditure (A-B)		2,207.04	-2,436.46

## Income & Expenditure Account for the period ended on 31st March 2017

Significant Accounting Policies

23

24

Contingent Liablities and Notes to Accounts

Thayba

Deputy Register

Registrar

Director



### **SCHEDULE-1 CORPUS FUND/CAPITAL FUND**

		Amount in ₹
Particulars	Current Year	Previous Year
Balance at the Beginning of the Year	3,624,751,938.41	2,866,113,178.18
Add: Contributions towards Corpus/Capital Fund	25,913,170.65	18,608,957.57
Add: Grants from Government of India and State Government to the extent utilized for capital expenditure	510,982,762.29	983677903.62
Add: Assets Purchased out of Earmarked Funds	-	-
Add: Assets Purchased out of Sponsored Projects, where ownership		
vests in the institution	-	-
Add: Assets Donated/Gifts Received	-	-
Add: Other Additions	-	-
Add: Excess of Income over expenditure trasferred from the Income	220,704,881.51	
& Expenditure Account	220,704,881.31	
Less: Fixed assets of other projects	81,732,234.24	-
Total	4,300,620,518.62	3868400039.37
(Deduct) Deficit transferred from the Income & expenditure Account	0.00	243,648,101
Balance at the year end	4,300,620,518.62	3624751938.41

Thay bal Deputy Register

Registrar



Amount in₹	Previous Year	534,655,779.16	15,420,272.49	100,174,382.74		186,560.00	6,881,920.00	657,318,914.39			27,866,633.52	27,866,633.52	629,452,280.87
	Current Year Prev	630,652,280.87	17,262,218.01	130,240,833.77		110,805.00	6,111,897.88	784,378,035.53 65'			28,550,368.54 2'	28,550,368.54 2'	755,827,666.99 62
		630,6		130,2		1	6,1						
	PROFESSIONAL DEVELOPMENT FUND		3,134,020.25			-	•	3,134,020.25		-	19,282.00	19,282.00	3,114,738.25
	GUEST HOUSE	8,052,132.61		17,167.00	•	110,805.00	6,111,897.88	14,292,002.49			2,292,584.00	2,292,584.00	11,999,418.49
	ENDOWMENT FUNDS	-					•	•			•	•	-
	OTHER EARMARKED FUND	-432,346.39		6,540,051.08	•	-	•	6,107,704.69			2,310,242.00	2,310,242.00	3,797,462.69
	INSTITUTE INFRASTRUCT URE FUND	119,048.89					•	119,048.89			•	•	119,048.89
	DEPRE- CIATION FUND	18,861,974.30	4,709,399.25	,				23,571,373.55			-	•	23,571,373.55
	MAINTENANCE FUND	18,861,974.27	4,709,399.25	90,374.99				23,661,748.51					23,661,748.51
	STAFF DEVELOPMENT FUND	95,508,437.98	4,709,399.25	7,552,432.00		,		107,770,269.23			130,109.00	130,109.00	107,640,160.23
	STUDENT FUND ENDOWMENT / EARMARKED FUND	464,128,275.25		110,766,333.70		,		574,894,608.95			23,578,161.54	23,578,161.54	551,316,447.41
	SPECIAL TRAINING PROGRAMME FOR SC/ST STUDENTS	2,993,319.00		1	•			2,993,319.00					2,993,319.00
	NEW PG COURSE FRIDGED BALANCE	205,297.25	-	1	-		•	205,297.25			-	•	205,297.25
	RESEARCH DEVELOPMENT FUND	22,343,085.71		5,272,544.00		-	-	27,615,629.71			219,990.00	219,990.00	27,395,639.71
	PENSION DEPOSIT	11,082.00	,	1,931.00				13,013.00				•	13,013.00
	Particulars	a) Opening Balance	b) Additions during the year	c) Income from investments made of the funds	d) Accrued Interest on investments / Advances	e) Interest on Savings Bank A/C	f) Other Income	Total (A)	Utilisation/Expenditure towards objectives of funds	a) Capital Expenditure	b) Revenue Expenditure	Total (B)	Closing Balance (A-B)



Registrar

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## **SCHEDULE-3 CURRENT LIABILITIES & PROVISIONS**

SCHEDULE-3 CURRENT LIABILITIES & PROVISIONS Amou				
Particulars	Current Year	Previous Year		
A. CURRENT LIABILITIES				
1. DEPOSITS FROM STAFF	55,895.00	53,225.00		
2. DEPOSITS FROM STUDENTS	65,589,708.00	56,766,908.00		
3. SUNDRY CREDITORS				
a) FOR GOODS AND SERVICES	103,002,985.04	118,925,374.67		
b) OTHERS	171.00	1,503,704.00		
4. DEPOSIT OTHERS(EMD AND SECURITY DEPOSIT)	54,788,664.54	61,462,186.42		
5. STATUTORY LIABILITIES(GPF/TDS/WC TAX/CPF/				
a) OVERDUE	-	-		
b) OTHERS	8,830,597.29	7,950,938.48		
6. OTHER CURRENT LIABILITIES				
a) SALARIES	38,241,343.01	35,305,646.15		
b) RECEIPTS AGAINST SPONSORED PROJECTS	213,314,234.01	274514723.9		
c) RECEIPTS AGAINST SPONSORED FELLOWSHIPS	534,143.50	478,827.50		
d) UNUTILISED GRANTS	-450,120,631.26	-672,129,336.09		
e) GRANTS IN ADVANCE	-	-		
f) OTHER FUNDS	-	-		
g) OTHER LIABILITIES	173,824,581.86	282,164,233.12		
Total	208,061,691.99	166,996,431.13		
B. PROVISIONS				
GRATUITY ACTUARIAL LIABILITIES	95,398,490.00	288,400,095.00		
LEAVE ENCASHMENT ACTUARIAL LIABILITIES	66,709,300.00	209,964,824.00		
PROVISION FOR PENSION	-	-		
PROVISION FOR AUDIT FEES	588,470.00	1,019,130.00		
LEAVE SALARY CONTRIBUTION PROVISION	147,116.00	152,287.00		
PROVISION FOR PENSION CONTRIBUTION	251,144.00	307,776.00		
Total	163,094,520.00	499,844,112.00		
Grand Total	371,156,211.99	666,840,543.13		

Chang bal Deputy Register

Registrar



# SCHEDULE-3(A1) DEPOSIT FROM STAFF

		Amount in ₹
Particulars	<b>Current Year</b>	Previous Year
SECURITY DEPOSIT BY STAFF	40,000.00	38,000.00
STAFF CLUB (TECHING) (DEPOSIT HEAD)	-	-670.00
STAFF CLUB N.T.S.A. (DEPOSIT HEAD)	895.00	895.00
DEPOSIT FROM STAFF (CONSULTANCY)	15,000.00	15,000.00
Total	55,895.00	53,225.00

May bal Deputy Register

Registrar



## **SCHEDULE-3(A2) DEPOSIT FROM STUDENT**

		Amount in ₹
Particulars	Current Year	Previous Year
CAUTION MONEY	63,333,092.00	54,806,192.00
SECURITY DEPOSIT BY STUDENTS	1,930,916.00	1,930,916.00
STUDENT FEE REFUNDABLE	325,700.00	29,800.00
Total	65,589,708.00	56,766,908.00

Anan bal Deputy Register

Registrar

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## SCHEDULE-3(A3(a)) SUNDRY CREDITORS - FOR GOODS AND SERVICES

SCHEDULE-5(A5(a)) SUNDRI CREDITORS - FOR GOODS AND	221111022	Amount in ₹
Particulars	Current Year	Previous Year
ABHINAV ENTERPRISES	57,804.00	1,779,509.00
ADB PUBLICATION DIVISION	-	25.00
AMDISA HYDERABAD	-	1,125.00
AMIT SALES CORPORATION	-	13,282.00
ASIA PACIFIC CENTRE FOR ENERGY CHENNAI	-	313.00
BIOMOLE INDIA	5,850.00	21,782.00
BIPL AC INSIDE OUTSIDE MUMBAI	-	138.00
BIRLA INSTITUTE OF TECH MESRA RANCHI	-	250.00
BLOCKDALE MUMBAI	-	338.00
CALCUTTA MATHEMATICAL SOCIETY KOLKATA	-	688.00
CENTRAL MANUFACTURING TECH INSTITUTE BANGALORE	-	286.00
COUNCIL OF ARCHITECTURE NEW DELHI	-	75.00
CPWD	16,602,321.00	7,892,878.00
DEPOSIT OF M/S ABHINAV ENTERPRISES	1,707,621.00	1,707,621.00
DEPOSIT OF MBA MANAGEMENT TECHNOLOGY	2,299,458.00	2,299,458.00
DIRECTOR INDIAN INSTI OF PUBLIC ADM NEW DELHI	_,, ,	75.00
DR S C HAJELA LUCKNOW	_	250.00
DR. M K BANARJEE -	16,838.00	20000
DRONAH GURGAON		125.00
ECONOMIC AND POLITICAL WEEKLY MUMBAI	_	1,050.00
EDITOR INDIAN JOURNAL OF POLITICAL SCIENCE	_	600.00
EDITOR LITTERIT THIRUVANANTHAPURAM	-	175.00
EFY ENTERPRISES PVT LTD NEW DELHI	_	150.00
EXPOSURE MEDIA MARKETING GURGAON	_	420.00
FINANCE OFFICER JNU NEW DELHI	_	75.00
GREEN EARTH FOUNDATION JAIPUR	_	200.00
IAAPC DELHI CHAPTER DELHI	_	250.00
IASLIC BULLETIN KOLKATA	_	500.00
IETE NEW DELHI	_	1,069.00
INDIAN ACADEMY OF SCIENCE BANGALORE	_	1,400.00
INDIAN CHEMICAL SOCIETY KOLKATA	_	1,375.00
INDIAN INSTITUTE OF INDUSTRIAL ENGINEERING MUMBAI	-	125.00
INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY LUCHNOW	-	500.00
INDIAN NATIONAL SCIENCE ACADEMY NEW DELHI	-	475.00
INDIAN WATER WORKS ASSOCIATION MUMBAI	-	50.00
INSTITUTE OF CONSTITUTIONAL AND PARLIAMENTARY STUD	-	143.00
INSTITUTE OF TOWN PLANNER NEW DELHI	-	250.00
JASUBHAI MEDIA PVT LTD MUMBAI	-	825.00
KRISHTAL EMAGING SOLUTION PVT LTD CHENNAI	-	1,000.00
LA JOURNAL OF LANDSCAPE ARCHITECTURE NEW DELHI	-	250.00
LIBRARY PLAN	-	-600,000.00
LIVING MEDIA INDIA LTD NOIDA	-	600.00
M/S A.O BSNL PGMTD	-	76,151.00
M/S A.S. INFOWAYS -	110,274.00	70,101.00
M/S ACCELRYS K K JAPAN		2,600,000.00
M/S ACE CHEMICALS JAIPUR	_	4,622.00
M/S ADARSH SPORTS JAIPUR	_	55,221.00
M/S ADITYA ENTERPRISES	_	18,790.00
M/S ADVANCE RIKO INCORPORATION JAIPUR	1,560,000.00	10,790.00
	1,200,000.00	_



		Amount in ₹
Particulars	Current Year	Previous Year
M/S ADVANCE SCIENTIFIC INTERNATIONAL, HOWRAH	-	3,680.00
M/S AIMIL LTD.	-	829,013.00
M/S AIR CONDITIONING SYSTEM PVT LTD NEW DELHI	8,467,597.00	3,776,123.00
M/S ALLIED INFORMATICS	5,021.00	5,021.00
M/S ALLIED PUBLISHERS SUBSRIPTION AGENCY NEW DELHI	2,262,641.00	-
M/S AMAFHH ELECTRONICS JAIPUR	-	41,298.00
M/S ANAND HOMEO STORE	-	6,717.00
M/S ANSH TRADING CO.	35,700.00	150,287.00
M/S APICAL O PRINT STATIONERS JAIPUR	-	38,859.00
M/S ARYA OMNI TALK WIRELESS SOLUTION	-	44,940.00
M/S ATLANTIC PUBLISHER AND DISTRIBUTER	-	675.00
M/S AYUSH ELECTRICALS	337,118.00	337,118.00
M/S BHAYA 200,000.00 M/S BRIDGE PEOPLE CONSULTANCY SERVICES PVT. LTD.	200,000.00	
M/S CENTRAL BOARD OF IRRIGATION POWER NEW DELHI	749,944.00	1,500.00
M/S CHOPRA ALLUMINIUM	750,001.00	750,001.00
M/S DEEPAK ELECTRICALS JAIPUR	750,001.00	14,248.00
M/S DEEFAR ELECTRICALS JAIFOR M/S DYNATECH ENGINEERS	-	27,080.00
M/S ECOSENCE SOLUTION PVT LTD	-	108,938.00
M/S ELTRONICS JAIPUR	69,127.00	100,950.00
M/S ELECTRONIC INSTRUMENT AND MACHINERY CORP		48,670.00
M/S ELOVA ENTERPRISES	2,830.00	250,210.00
M/S FRANCIS KLEIN AND CO.PVT.LTD		304,026.00
M/S GARIMA MEDICAL AGENCY JAIPUR	27,528.00	-
M/S GAUTTAM ELECTRICALS JAIPUR		44,569.00
M/S GLOBAL PRESENTATION, JAIPUR	-	4,139,648.00
M/S GLOBAL STORE 63,840.00	63,840.00	, ,
M/S GOLDENRAY SERVICES	184,788.00	145,542.00
M/S GOLDY COMPU CARE	-	12,600.00
M/S HEMANTIC ASSOCIATES JAIPUR	183,000.00	11,900.00
M/S HEWLETT PACKRD INDIA SALES PVT LTD JAIPUR	-	532,265.79
M/S ICON ANALYTICAL EQUIPMENT PVT. LTD.	757,640.00	757,640.00
M/S INDIA BOOK HOUSE	7,146.00	7,146.00
M/S ITP TELECOM SERVICES JAIPUR	52,999.00	52,999.00
M/S JAI NIRMAN JAIPUR	184,337.00	184,337.00
M/S JAIN GLASS AND FURNITURE HOUSE JAIPUR	-	8,643.00
M/S JOHNSON LIFTS	-	1,000,000.00
M/S KANHAIYA MEDICAL HALL JAIPUR	14,883.93	226,721.93
M/S KANISHK STEEL	300,000.00	300,000.00
M/S KMV PROJECT	3,770,911.00	3,770,911.00
M/S LIBERTY SPORTS JAIPUR	-	369,004.00
M/S LIBSYS LTD NEW DELHI	-	110,377.00
M/S MADHU ART AND CRAFTS JAIPUR M/S MAHENDRA CONSTRUCTION JAIPUR	-	5,520.00 327,800.00
	2 004 00	
M/S MICRO TOOLS PIE LTD SINGAPORE M/S MVS ENGINEERING LIMITED NEW DELHI	3,904.00 238,750.00	3,904.00 238,750.00
M/S MIVS ENGINEERING LIMITED NEW DELHI M/S NETWEB TECHNOLOGIES	230,730.00	653,835.00
M/S NIRMALA ENTERPRISES	- 86,380.00	055,855.00
M/S OPTOCHEM INTERNATIONAL	258,770.00	258,770.00
M/S OSAW INDUSTRIAL PRODUCTS PVT LTD AMBALLA CANT		632,040.00
		0.02,070.00



Amount in ₹			
Particulars	Current Year	Previous Year	
M/S PAPER PLUS JAIPUR	300.00	77,580.00	
M/S PARI ENTERPRISES	9,550.00	10,400.00	
M/S PERFEX AUTOMATION PVT.LTD	790,322.00	790,322.00	
M/S PLUMSOFT SOLUTION PVT LTD	875,326.00	126,000.00	
M/S POOJA ENTERPRISES	19,800.00	19,800.00	
M/S PRADHAN ENTERPRISES	-	235,255.00	
M/S PRIME ASSOCIATES	-	50,716.00	
M/S PROFESSIONAL HR SERVICES PVT LTD	959,691.00	959,691.00	
M/S R K FRIGHT SYSTEM	1,668,570.00	1,675,074.00	
M/S RAJPUTANA ELECTRIC TRADING CO.	278,957.00	278,957.00	
M/S RAMKY INFRASTRUTURE LTD	6,346.00	6,346.00	
M/S RANK INFOTECH PVT. LTD	37,180.00	37,180.00	
M/S REET TRADERS -	74,798.00		
M/S ROHIT TRADERS JAIPUR	-	36,520.00	
M/S S S ENGINEERS CORPORATION	-	224,000.00	
M/S SAMYAK ARTHIECTS	50,000.00	50,000.00	
M/S SANVARIYA	400,000.00	400,000.00	
M/S SARTHAK SALES JAIPUR	-	48,413.00	
M/S SARVODAYA	1,500,000.00	1,500,000.00	
M/S SAVITA SCIENTIFIC AND PLASTIC PRODUCTS	21,944.00	21,944.00	
M/S SCEINTIFIC GREEN AGENCIES	-	39,998.00	
M/S SHREE BALAJI TRADING CO.	-	19,973.00	
M/S SHREE MARKETING AND AGENCIES JAIPUR	-	42,079.00	
M/S SHREE SHIVKHORI CONSTRUCTION COMPANY JAIPUR	106,280.00	106,280.00	
M/S SHREE SHYAM ENTERPRISES	-	61,100.00	
M/S SHREEJI ENTERPRISE	95,025.00	118,602.00	
M/S SHRI RADHA GOVIND ASSOCIATES	38,490.00	38,490.00	
M/S SIDDHARTH TECHOCRAT JAIPUR	-	13,650.00	
M/S SKY CONSTRUCTION JAIPUR	6,901.00	57,556.00	
M/S STEEL HOME 1,800.00	1,800.00		
M/S SURESH GOEL AND ASSOCIATES NEW DELHI	1,307,463.00	2,762,853.00	
M/S SWEAT IT SPORTS JAIPUR	-	6,200.00	
M/S SYNCOTTS INTERNATIONAL DELHI	-	127,382.00	
M/S SYNERGY SYSTEM UDAIPUR	-	9,975.00	
M/S TEAM COMPUTER PVT LTD	1,842,750.00	114,762.00	
M/S TECHNO SERVICES	238,350.00	238,350.00	
M/S TECHNOS INSTRUMENTS	-	254,190.00	
M/S TECHNOSYS SYSTEM JAIPUR	57,963.00	-	
M/S THE NATIONAL SMALL INDUSTRIES CORP LTD.	-	2,926,350.00	
M/S THE SCIENTIFIC AND GENERAL AGENCIES	-	164,632.00	
M/S THYSSEN KRUPP ELEVATOR PVT LTD	206,130.00	539,130.00	
M/S TIRUMALA PHOLONIC	294,000.00	294,000.00	
M/S TOOTTECH INDIA PVT LTD NEW DELHI	-	101,237.00	
M/S TOTAL IT SOLUTION PVT LTD	378,969.00	372,522.00	
M/S TRADE SCIENCE INC RAJKOT	-	2,100.00	
M/S UNISYSTEM NEW DELHI	-	2,052,386.00	
M/S UNITECH WORKS		3,894,853.00	
M/S VARALIKA COMPU POWER SYSTEM JAIPUR	5,600.00	5,600.00	
M/S VARDHMAN FAB TECH	516,543.00	641,160.00	
M/S VATIKA INTERNATIONAL JAIPUR	-	34,465.00	



		Amount in ₹
Particulars	Current Year	Previous Year
M/S VEERAJ BUILDER AND CONTRACTOR	99,575.00	-
M/S VINAYAK ELECTRICAL JAIPUR	-	306,620.00
M/S VISION TECHNOLOGY	546,665.00	61,604.00
MIS HITACHI HOME AND LIFE SOLUTION	226,846.00	226,846.00
NATIONAL INSTITUTE OF URBAN AFFAIRS NEW DELHI	-	125.00
NICMAR PUNE -	500.00	
NISCAIR NEW DELHI	-	3,100.00
NITIE MUMBAI -	125.00	
OSWAL ENERPRISES	10,190.00	10,190.00
RAJASTHAN ACADEMY OF PHYSICAL SCIENCE JAIPUR	-	175.00
RAMANUJAN MATHEMATICAL SOCIETY MYSORE	-	350.00
RE MARKETING AGRA	-	225.00
SAGE PUBLICATION IND PVT LTD NEW DELHI	-	3,020.00
SANWARIYA ENTERPRISES, JAIPUR.	83,120.00	83,120.00
SARDAR PATEL INST OF ECONOMICS AND SOCIAL RESEARCH	-	50.00
SECRETARY GENERAL INDIAN ROADS CONGRESS NEW DELHI	-	200.00
SENIOR ACCOUNTS OFFICER CPRI BANGALORE	-	500.00
SERIAL PUBLICATION PVT LTD NEW DELHI	-	750.00
SHRI RAM CENTRE FOR IR HR	-	450.00
SPRINGER PVT LTD NEW DELHI	-	5,598.00
SUNDRY CREDITORS	-	-0.57
TDS PAYABLE -	7,760,075.15	
TECHNOSCIENCE PUBLICATION KARAD MAHARASHTRA	-	875.00
TERI NEW DELHI -	135.00	
THE AEN D-III JVVNL LTD JAIPUR	-	2,391,447.00
THE INDIAN INSTITUTE OF METALS KOLKATA	-	2,500.00
THE INSTITUTE OF INDIAN FOUNDRYMEN KOLKATA	-	525.00
THE SECRETARY SAHITYA ACADEMY NEW DELHI	-	63.00
M/S. M RAGHUNATH AND CO. (TEQIP)	14,950.00	15,000.00
SUNDRY CREDITORS (CONSULTANCY)	44,004,017.62	49,416,170.12
SUNDRY CREDITORS (U K INDIA)	4,664.25	4,664.25
SUNDRY CREDITORS (TEQIP)	851,812.24	156,939.00
SUNDRY CREDITORS (R & C)	4,198,985.00	-
Total	103,002,985.04	118,925,374.67

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# **SCHEDULE-3(A3(b)) SUNDRY CREDITORS - OTHERS**

	-	Amount in ₹
Particulars	Current Year	Previous Year
CCDDR 2015	171.00	303,704.00
PAYABLE TO SWAMI SIVANANDA (SCHOLARSHIP)	-	1,200,000.00
Total	171.00	1,503,704.00

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		Amount in ₹
Particulars	Current Year	Previous Year
ADVANCE TO FIRM THROUGH AR (STORE)	376,280.92	376,280.92
CANTEEN CONTRACTOR DEPOSIT	0.00	2,550.00
DCRGS DEPOSIT	0.00	485,768.00
DEPOSIT FROM CPWD	0.00	8,859,525.00
DEPOSIT FROM R and C	19,021.00	19,021.00
DEPOSIT OF AUTOMETIC PHOTOCOPIES	0.00	2,686.00
DEPOSIT OF FIRMS	0.00	-36,889.00
DEPOSIT OUT OF TESTING	0.00	90,850.50
EARNEST MONEY (DEPOSIT HEAD)	6,956,135.62	6,704,216.00
FINISHING SCHOOL COURSE DEPOSIT	0.00	11,250.00
LIBRARY SECURITY DEPOSIT	0.00	5,450.00
MESS DEPOSIT	1,724,500.00	1,724,500.00
MREC T.A. (DEPOSIT HEAD)	491	491
SECURITY DEPOSIT OF FIRM / CONTRACTORS (DEPOSIT HEAD)	43,567,067.00	41,455,594.00
SPINFED DEPOSIT	0.00	1,720.00
TEQIP FUND DEPOSIT	814,666.00	814,666.00
SECURITY DEPOSIT (TEQIP) PHASE-I	105,740.00	105,740.00
SECURITY DEPOSIT (R AND C)	951,766.00	616,008.00
SECURITY DEPOSIT (CBERD)	272,997.00	222,759.00
Total	54,788,664.54	61,462,186.42

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## **SCHEDULE-3 A5 (b) DEPOSIT OTHERS (EMD, SECURITY DEPOSIT)**

## Amount in ₹

Particulars	Current Year	Previous Year
GSLIS ( DEPOSIT HEAD)	51,519.31	49,920.87
LABOUR CESS	0.00	8,317.00
PAYABLE FOR PENSION	8,245,186.00	7,676,988.00
PENSION (EMPLOYER) CONTRIBUTION	11,140.00	38,090.00
PENSION (OWN) CONTRIBUTION	11,140.00	29,347.00
PF DEPOSITS (DEPOSIT HEAD)	0.00	-212,923.39
PF LOAN (OWN)	66,876.61	276,800.00
PF OWN SHARE	1,500.00	58,500.00
ROYALTY DEPOSIT	0.00	28,725.00
TDS PAYABLE	412,059.37	-
VAT / RAJ. SALES TAX. (DEPOSIT HEAD)	31,176.00	-2,826.00
Total	8,830,597.29	7,950,938.48

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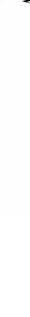


## **SCHEDULE-3 A6(a) OTHER CURRENT LIABILITIES - SALARIES**

		Amount in ₹
Particulars	Current Year	Previous Year
SALARY PAYABLE	36,861,295.56	34,130,762.20
UNDISBURSED SALARY (DEPOSIT HEAD)	1,380,047.45	1,174,883.95
Total	38,241,343.01	35,305,646.15

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Š	SCHEDULE-3 A6(b) SPONSORED PROJECTS	ORED PRO	OJEC	LS					Amo	Amount in ₹
Ś	Name of the Proisot	Opening Balance		Receipts/Recoveries during the Year	veries during ear	Total	Expenditure during the year	during the ar	Closing Balance	ance
N0.		Credit	Debit	Receipt	Income	10141	Revenue	Capital	Credit	Debit
1	BIKANER ENGINEERING COLLEGE	100,000.00			-	100,000.00			100,000.00	
7	PROJECTS GRANT (INSTITUTE FUND)	1,469,082.00	•	3,900,000.00	16,838.00	5,385,920.00	4,501,091.00	•	884,829.00	
3	3 TRAVEL SEMINAR AND OTHER GRANTS	1,479,765.40	•	•	54,943.00	1,534,708.40	54,974.40	ľ	1,479,734.00	
4	STUDENT FUND	583,656.90	•	•		583,656.90	11,528.00	ľ	572,128.90	
5	5 EARMARKED FUND (R AND C)	184,479,279.70		92,149,456.00	11,841,678.22	288,470,413.92	68,607,496.86	26,679,915.60	193,183,001.46	
9	UK INDIA	2,616,846.05	•	•	•	2,616,846.05		•	2,616,846.05	
7	PROJECT CBERD - MNIT	27,557,476.17	•	•	1,306,848.41	28,864,324.58	6,386,409.22	14,212,604.00	8,265,311.36	
	TEQIP PHASE I	383,188.00	•	r		383,188.00		I	383,188.00	
8	TEQIP	56,135,640.16		2,500,000.00	2,753,958.42	61,389,598.58	12,746,832.34	42,813,571.00	5,829,195.24	
	TOTAL	274,804,934.38		98,549,456.00	15,974,266.05	389,328,656.43	92,308,331.82	83,706,090.60	213,314,234.01	·

## Note

The Projects may be listed agency-wise, with sub-totals for each agency.
 The total of Col. 8 (Credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 3).
 The total of Col. 9 (Debit) will appear as Receivables in Schedule 8, Loans, Advances and Deposits, on the Assets side of the Balance Sheet.

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## **MNIT JAIPUR**

SCHEDULE-3(A6(c)) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS	D FELLO	<b>dihswo</b>	S AND SC	CHOLAR	SHIPS		Amount in ₹
Name of the Sponsor	Opening Balance As On 01.04.2016	lance As On 2016	Transactions during the year	during the 1r	Transfer to	Closing Bal 31.03	Closing Balance As On 31.03.2017
	Credit	Debit	Credit	Debit	Absest sluc	Credit	Debit
<b>1. UNIVERSITY GRANTS COMMISSION</b>							
2. MINISTRY (GOVERNMENT OF INDIA)							
a) EMERITUS FELLOWSHIP							
EMERITUS FELLOSHIP TO DR. S K BHATNAGAR	25,812.00	I	I	·	ľ	25,812.00	
b) CAREER AWARDS SCHEME TO YOUNG TEACHERS						•	
CAREER AWARD TO DR. ROHIT GOYAL	224,065.50	1	·			224,065.50	·
CAREER AWARD TO DR. VIJAY JANYANI	284,266.00	I	ı	·	·	284,266.00	I
CAREER AWARD TO SHRI MANOJ FOZDAR	I	36,384.00	I	•	36,384.00	•	·
CAREER AWARD TO SHRI RAJESH KUMAR		18,932.00	ľ		18,932.00	•	I
3. OTHERS	•	•	•	•	•	-	•
TOTAL	534,143.50	55,316.00	-	-	55,316.00	534,143.50	
GRAND TOTAL	478,827.50		•	1	1	534,143.50	I

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2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).

Notes





### SCHEDULE-3(A6(d)) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

			Amount in ₹
Particulars		Current Year	Previous Year
A. PLAN GRANTS GOVT. OF INDIA			
Balance B/F		-589,149,780.90	-214,473,933.44
Add: Receipts during the Year		850,000,000.00	720,000,000.00
Add: Income		-	-
	Total (a)	260,850,219.10	505,526,066.56
Less: Refunds		-	-
Less: Utilized for Revenue Expenditure		151,386,110.00	145,764,837.07
Less: Utilized for Capital Expenditure		510,982,762.29	948,911,010.39
	Total (b)	662,368,872.29	1,094,675,847.46
Unutilized carried forward (a-b)		-401,518,653.19	-589,149,780.90
B. MHRD GRANTS NON PLAN			
Balance B/F		-73,533,215.54	4,869,098.30
Add: Receipts during the Year		503,000,000.00	340,000,000.00
Add: Income			-
	Total (c)	429,466,784.46	344,869,098.30
Less: Refunds		-	-
Less: Utilized for Revenue Expenditure		471,596,072.88	418,402,313.84
Less: Utilized for Capital Expenditure			-
	Total (d)	471,596,072.88	418,402,313.84
Unutilized carried forward (c-d)		-42,129,288.42	-73,533,215.54
C. PHE GRANTS			
Balance B/F		-12,294,015.51	-10,687,129.51
Add: Receipts during the Year			676,000.00
Add: Income			-
	Total (e)	-12,294,015.51	-10,011,129.51
Less: Refunds		-	-
Less: Utilized for Revenue Expenditure		2,657,862.00	2,282,886.00
Less: Utilized for Capital Expenditure		-	-
	Total (f)	2,657,862.00	2,282,886.00
Unutilized carried forward (e-f)		-14,951,877.51	-12,294,015.51
D. QIP POLY GRANT			
Balance B/F		-4,842,102.00	-4,788,973.00
Add: Receipts during the Year		6,460,803.00	-
Add: Income		-	-
	Total (g)	1,618,701.00	-4,788,973.00
Less: Refunds	\C2/	-	-
Less: Utilized for Revenue Expenditure		-	53,129.00
Less: Utilized for Capital Expenditure		-	-
	Total (h)	-	53,129.00
Unutilized carried forward (g-h)		1,618,701.00	-4,842,102.00



E. NON PLAN RECURRING GRANTS GOVT. OF RAJASTHAN		
Balance B/F	-4,726,421.10	-4,726,421.10
Add: Receipts during the Year	-	-
Add: Income	-	
Total (i)	-4,726,421.10	-4,726,421.10
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	
Less: Utilized for Capital Expenditure		
Total (j)		-
Unutilized carried forward (i-j)	-4,726,421.10	-4,726,421.10
F. PLAN RECURRING GRANTS GOVT. OF RAJASTHAN	, ,	
Balance B/F	-12,680.78	-12,680.78
Add: Receipts during the Year	-	-
Add: Income	-	-
Total (k)	-12,680.78	-12,680.78
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
Total (I)	-	-
Unutilized carried forward (k-l)	-12,680.78	-12,680.78
G. GRANT NATIONAL MANPOWER INFORMATION SYSTEM(NODEL CENTRE)		
Balance B/F	-4,601,978.26	-3,836,762.26
Add: Receipts during the Year	-	-
Add: Income	-	-
Total (m)	-4,601,978.26	-3,836,762.26
Less: Refunds		-
Less: Utilized for Revenue Expenditure	829,291.00	765,216.00
Less: Utilized for Capital Expenditure	-	-
Total (n)	829,291.00	765,216.00
Unutilized carried forward (m-n)	-5,431,269.26	-4,601,978.26
H. PLAN GRANT GOV. OF RAJASTHAN		
Balance B/F	-350,000.00	-350,000.00
Add: Receipts during the Year	-	-
Add: Income		-
Total (0)	-350,000.00	-350,000.00
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
Total (p)	-	-
Unutilized carried forward (o-p)	-350,000.00	-350,000.00

I. PLAN GRANT FOR BARRIER FREE ENV SIPDA		
Balance B/F	17,380,858.00	
Add: Receipts during the Year	-	17,380,858.00
Add: Income	-	
Total (q)	17,380,858.00	17,380,858.00
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
Total (r)	-	-
Unutilized carried forward (q-r)	17,380,858.00	17,380,858.00
Grand Total (A+B+C+D+E+F+G+H+I)	-450,120,631.26	-672,129,336.09

#### Notes

Unutilized grants includes advances on Capital Account.
 Unutilized grants include grants received in advance for the next year.
 Unutilized grants are represented on the Assets side by Bank balances, Short term Deposits with Banks and Advances on Capital Account.

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### SCHEDULE-3(A6(g)) OTHER LIABILITIES

SCHEDULE-3(A0(g)) OTHER LIABILIT		Amount in ₹
Particulars	Current Year	Previous Year
OTHER LIABILITIES ADVANCE DIGITAL AND DEVICE SYSTEM	8,597.00	8,597.00
ADVANCE TO RSBCC	1,021,002.00	1,021,002.00
AOT 2015	899.00	899.00
BANK LOAN (DEPOSIT HEAD)	35,157.00	4,191.00
CAMINOVA 2014	-	111.00
CCMT HELPING CENTRE	-	67,185.00
CENTER FOR INDUSTRIAL COLLABORATION	15,419.00	15,419.00
COMPENSATION FROM JDA	650,337.00	650,337.00
CORPORATE TRAINING PROGRAMME	-	100,887.00
CSAB HELPING CENTRE 2014	-	-225,164.00
DASA ADMISSION SUPPORT ACTIVITIES	94,498.00	94,498.00
DASA HELPING CENTRE	552,602.00	152,602.00
DEVELOPMENT OF CANTEEN	-	9,400.00
EPIP	-	20,000.00
FEE FOR OTHER RECS	-	83,278.00
FINANCIAL SUPPORT FROM CSIR NEW DELHI	50,000.00	50,000.00
JEN EXAM WATER RESOURCE DEPTT	2,674,302.00	3,573,173.00
LAB. CHARGES FROM MLV TEXTILES	-	20,125.00
LIC.(DEPOSIT HEAD)	1.50	1,543.50
LOAN FROM CCMT	70,000,000.18	70,000,000.18
LOAN FROM CSAB	76,500,000.00	80,000,000.00
LOAN FROM R AND C (SPONSER RESEARCH)	33,749.10	98,364,558.18
MATERIAL RESEARCH CENTRE	5,964,895.00	2,530,551.00
MISC. FUNDS ACCOUNT	53,725.00	53,053.00
MST 2011	131,700.00	131,700.00
NCMAC 2015	1,897.00	1,897.00
NICA-2015	73,500.00	73,500.00
NIMCET2014	-	6,437.00



STALL CHEQUE ACCOUNT DEPOSIT	567,896.00	567,896.00
REQUIRMENT OF ASSISTANT MANAGER	-	341,233.00
SCHOLARSHIP DEPOSIT	3,669,951.01	3,392,274.80
STALL CHEQUE ACCOUNT DEPOSIT	567,896.00	567,896.00
TESTING CHARGES	-	163,079.00
UNIVERSITY EXAMINATION FEE	-	450,952.89
UNNAT BHARAT ABHIYAN	111,734.00	-
WORK SHOP ON DATA ANALYTICS	-	79.00
RECOVERABLE FROM CCMT-2014	20,000.00	-
RECOVERABLE FROM CCMN	443,800.00	-
RECOVERABLE FROM CCMT	500,200.00	-
RECOVERABLE FROM ICCR	276,350.05	-
OTHER LIABILITIES OF R AND C	2,301,815.15	15,607,372.65
ME PART TIME RESERVE AND SURPLUS	95,075.00	95,075.00
OTHER LIABILITIES OF ME PART TIME	20,860.00	20,860.00
OTHER LIABILITIES OF CONSULTANCY	1,392,676.00	1,641,184.00
OTHER LIABILITIES OF TEQIP	101,030.00	767,424.00
OTHER LIABILITIES (CBERD)	600,000.00	-
OTHER LIABILITIES (GUEST HOUSE)	1,521,159.87	-
TOTAL	173,824,581.86	282,164,233.12

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# **SCHEDULE- 4 A PLAN**

n	SCHEDULE- 4 A PLAN	LAN								ł	Amount in ₹
C			Gross Block	llock			Depreciation for the year 2016-17	ie year 2016-17		Net Block	lock
No N	Assets Heads	Opening Balance 01.04.2016	Additions	Deductions	Closing Balance	Depreciation Opening Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31.03.2017	31-03-2016
	l LAND	42,920,612.26	•	•	42,920,612.26	•	•	-	-	42,920,612.26	42,920,612.26
	2 SITE DEVELOPMENT	-	•	•	-	•	•	-	-	-	
	3 BUILDINGS	1,066,325,377.22	2,348,129.00	•	1,068,673,506.22	309,560,257.90	15,639,917.00	12,960.00	325,187,214.90	743,486,291.32	756,765,119.32
	4 ROADS AND BRIDGES	-	•	•	•	•	•	•	•	'	'
	5 TUBEWELLS AND WATER SUPPLY	3,199,845.00	427,311.00		3,627,156.00	1,323,920.68	47,274.18		1,371,194.86	2,255,961.14	1,875,924.32
	6 SEWERAGE AND DRAINAGE	1,001,632.00	1,622,446.00	•	2,624,078.00	80,132.00	52,481.92	20,033.00	112,580.92	2,511,497.08	921,500.00
	$\gamma$ ELECTRICAL INSTALLATION	29,266,942.00	13,224,849.00	-	42,491,791.00	5,114,879.31	1,581,038.34	49,448.00	6,646,469.65	35,845,321.35	24,152,062.69
	8 PLANT AND MACHINERY	837,198,106.64	8,850,881.44	4,078,518.00	841,970,470.08	259,223,444.12	31,922,431.76	54,570.10	291,091,305.78	550,879,164.31	577,974,662.52
- '	9 SCIENTIFIC AND LABORATORY EQUIPMENT	-	5,070,764.00	-	5,070,764.00	-	405,661.12	-	405,661.12	4,665,102.88	1
1	10 OFFICE EQUIPMENT	109,997,899.00	2,657,938.00	25,748,499.00	86,907,338.00	6,203,200.92	2,769,921.40	29,380.00	8,943,742.32	77,963,595.68	103,794,698.08
Ι.	I AUDIO VISUAL EQUIPMENT	-	2,029,658.00		2,029,658.00		152,224.35		152,224.35	1,877,433.65	
1.	12 COMPUTERS AND PERIPHERALS	133,209,327.27	20,147,166.00	'	153,356,493.27	117,249,528.20	9,343,119.70	19,520.00	126,573,127.90	26,783,365.37	15,959,799.07
1.	13 FURNITURE, FIXTURES AND FITTINGS	252,570,060.11	5,134,529.00	'	257,704,589.11	60,041,947.48	17,126,085.12	-	77,168,032.60	180,536,556.51	192,528,112.63
Ť.	4 VEHICLES	8,127,746.71	'	'	8,127,746.71	4,005,824.44	515,240.29	•	4,521,064.73	3,606,681.99	4,121,922.27
1:	15 JUB BOOKS AND SCIENTIFIC JOURNALS	73,024,472.63	9,371,661.00	7,684,252.00	74,711,881.63	29,232,730.53	3,916,148.70	1,646,090.20	31,502,789.03	43,209,092.60	43,791,742.10
1	16 SMALL VALUE ASSETS	788,005.00	4,860.00		792,865.00	788,004.99	4,859.01		792,864.00	1.00	0.01
	Total (A)	2,557,630,025.84	70,890,192.44	37,511,269.00	2,591,008,949.28	792,823,870.57	83,476,402.88	1,832,001.30	874,468,272.15	1,716,540,677.13	1,764,806,155.27
1	17 CAPITAL WORK IN PROGRESS	2,033,759,322.00	437,338,451.00	•	2,471,097,773.00	•		•	•	2,471,097,773.00	2,033,759,322.00
	Total (B)	2,033,759,322.00	437,338,451.00	•	2,471,097,773.00	•	•		•	2,471,097,773.00	2,033,759,322.00
1	18 COMPUTER SOFTWARE	79,831,788.47	11,216,821.85	•	91,048,610.32	75,243,422.22	9,067,196.38	-2,596,619.94	86,907,238.54	4,141,371.78	4,588,366.25
1	19 E-JOURNALS	19,588,767.00	4,866,897.00	7,311,118.00	17,144,546.00	8,875,014.80	6,164,813.00	1,801,959.60	13,237,868.20	3,906,677.80	10,713,752.20
5	20 PATENTS AND COPYRIGHTS	'	'	'		'	1	•	•	•	•
	Total (C)	99,420,555.47	16,083,718.85	7,311,118.00	108,193,156.32	84,118,437.02	15,232,009.38	-794,660.34	100,145,106.74	8,048,049.58	15,302,118.45
	Grand Total (A+B+C)	4,690,809,903.31	524,312,362.29	44,822,387.00	5,170,299,878.60	876,942,307.59	98,708,412.26	1,037,340.96	974,613,378.89	4,195,686,499.71	3,813,867,595.72





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S	SCHEDULE- 4 A PLAN - MNI	AN - MN	III								Amount in ₹
U			Gross I	bross Block			Depreciation for the year 2016-17	ie year 2016-17		Net Block	lock
N0	Assets Heads	Opening Balance 01.04.2016	Additions	Deductions	Closing Balance	Depreciation Opening Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31.03.2017	31.03.2016
-	LAND	42,920,612.26			42,920,612.26		•	•		42,920,612.26	42,920,612.26
2	2 SITE DEVELOPMENT							•			
3	3 BUIL DINGS	1,058,347,594.22	2,348,129.00		1,060,695,723.22	309,560,257.90	15,639,917.00	12,960.00	325,187,214.90	735,508,508.32	748,787,336.32
4	4 ROADS AND BRIDGES										
5	5 TUBEWELLS AND WATER SUPPLY	3,199,845.00	427,311.00		3,627,156.00	1,323,920.68	47,274.18		1,371,194.86	2,255,961.14	1,875,924.32
9	6 SEWERAGE AND DRAINAGE	1,001,632.00	1,622,446.00		2,624,078.00	80,132.00	52,481.92	20,033.00	112,580.92	2,511,497.08	921,500.00
7	7 ELECTRICAL INSTALLATION AND EQUIPMENT	29,266,942.00	13,224,849.00		42,491,791.00	5,114,879.31	1,581,038.34	49,448.00	6,646,469.65	35,845,321.35	24,152,062.69
8	8 PLANT AND MACHINERY	837,198,106.64	8,850,881.44	4,078,518.00	841,970,470.08	259,223,444.12	31,922,431.76	54,570.10	291,091,305.78	550,879,164.31	577,974,662.52
6	9 SCIENTIFIC AND LABORATORY EQUIPMENT		5,070,764.00		5,070,764.00	'	405,661.12	•	405,661.12	4,665,102.88	•
10	10 OFFICE EQUIPMENT	35,507,784.00	2,657,938.00	-	38,165,722.00	6,203,200.92	2,769,921.40	29,380.00	8,943,742.32	29,221,979.68	29,304,583.08
11	11 AUDIO VISUAL EQUIPMENT	•	2,029,658.00	'	2,029,658.00		152,224.35	'	152,224.35	1,877,433.65	-
12	12 COMPUTERS AND PERIPHERALS	133,120,311.27	20,147,166.00		153,267,477.27	117,160,843.20	9,343,053.70	19,520.00	126,484,376.90	26,783,100.37	15,959,468.07
13	13 FURNITURE, FIXTURES AND FITTINGS	252,017,434.11	5,134,529.00		257,151,963.11	60,041,947.48	17,126,085.12		77,168,032.60	179,983,930.51	191,975,486.63
14	14 VEHICLES	8,127,746.71			8,127,746.71	4,005,824.44	515,240.29		4,521,064.73	3,606,681.99	4,121,922.27
15	15 LIB BOOKS AND SCIENTIFIC JOURNALS	51,857,217.63	9,371,661.00	1,939,964.00	59,288,914.63	29,232,730.53	3,916,148.70	1,646,090.20	31,502,789.03	27,786,125.60	22,624,487.10
16	16 SMALL VALUE ASSETS	788,005.00	4,860.00		792,865.00	788,004.99	4,859.01		792,864.00	1.00	0.01
	Total (A)	2,453,353,230.84	70,890,192.44	6,018,482.00	2,518,224,941.28	792,735,185.57	83,476,336.88	1,832,001.30	874,379,521.15	1,643,845,420.13	1,660,618,045.27
17	17 CAPITAL WORK IN PROGRESS	2,033,759,322.00	437,338,451.00	•	2,471,097,773.00		'			2,471,097,773.00	2,033,759,322.00
	Total (B)	2,033,759,322.00	437,338,451.00		2,471,097,773.00	•	•	•	•	2,471,097,773.00	2,033,759,322.00
18	18 COMPUTER SOFTWARE	79,831,788.47	11,216,821.85	'	91,048,610.32	75,243,422.22	9,067,196.38	-2,596,619.94	86,907,238.54	4,141,371.78	4,588,366.25
19	19 E-JOURNALS	19,588,767.00	4,866,897.00	7,311,118.00	17,144,546.00	8,875,014.80	6,164,813.00	1,801,959.60	13,237,868.20	3,906,677.80	10,713,752.20
20	20 PATENTS AND COPYRIGHTS			•			1			T	ı
	Total (C)	99,420,555.47	16,083,718.85	7,311,118.00	108,193,156.32	84,118,437.02	15,232,009.38	-794,660.34	100,145,106.74	8,048,049.58	15,302,118.45
	Grand Total (A+B+C)	4,586,533,108.31	524,312,362.29	13,329,600.00	5,097,515,870.60	876,853,622.59	98,708,346.26	1,037,340.96	974,524,627.89	4,122,991,242.71	3,709,679,485.72

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SC	SCHEDULE- 4 A PLAN - TEQIP	TEQIP									Amount in ₹
			Gros	Gross Block		De	Depreciation for the year 2016-17	he year 2016-	17	Net F	Net Block
S. No	0 Assets Heads	Opening Balance 01.04.2016	Additions	Deductions	Closing Balance	Depreciation Opening Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31.03.2017	31.03.2016
	1 LAND		'	'	'	•	•		'	'	
	2 SITE DEVELOPMENT	•	•	•	•	-	'		'		
	3 BUILDINGS	7,977,783.00	'	•	7,977,783.00	•	•		•	7,977,783.00	7,977,783.00
	4 ROADS AND BRIDGES	1	•	1	1		•	•	•		•
	5 TUBEWELLS AND WATER SUPPLY		'	•		-	'		'	•	
	6 SEWERAGE AND DRAINAGE	•			•	-	'		'	•	•
	<sup>2</sup> ELECTRICAL INSTALLATION AND										
	/ EQUIPMENT	•	•	•	•		•	•	•	•	•
	8 PLANT AND MACHINERY	•	'	•	'	•	•		•		•
	SCIENTIFIC AND LABORATORY										
	EQUIPMENT	•	'	•	•		•	•	'	•	•
1	10 OFFICE EQUIPMENT	74,490,115.00	-	25,748,499.00	48,741,616.00	-	-	-	•	48,741,616.00	74,490,115.00
1	1 AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	•	•	•
	12 COMPUTERS AND PERIPHERALS	•	-		-	-	-	•	•	•	
1	13 FURNITURE, FIXTURES AND FITTINGS	552,626.00	-	-	552,626.00	-	•		•	552,626.00	552,626.00
1	14 VEHICLES	-	-	•	•	-	•	•	-	•	•
	15 LIB BOOKS AND SCIENTIFIC JOURNALS	21,167,255.00	'	5,744,288.00	15,422,967.00	-				15,422,967.00	21,167,255.00
	16 SMALL VALUE ASSETS	•	'		'	-	'	'	'		•
	Total (A)	104, 187, 779.00	-	31,492,787.00	72,694,992.00	•	•		-	72,694,992.00	104,187,779.00
1	7 CAPITAL WORK IN PROGRESS	-	-	•	-	-	-	-	-	•	-
	Total (B)	-	•	•	-	-	•	•	•	•	•
1	18 COMPUTER SOFTWARE	-	-	-	-	-	-	-	•	-	•
1	19 E-JOURNALS	-	-	-	-	-	•	•	•	-	-
2	20 PATENTS AND COPYRIGHTS	-	-	-	-	-	•		•	-	-
	Total (C)		'	'	-	-	•	'	•	-	•
	Grand Total (A+B+C)	104,187,779.00	•	31,492,787.00	72,694,992.00	-	•	•	•	72,694,992.00	104,187,779.00



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5	SCHEDULE- 4 A PLAN - INDUSTRIAL CONSULTANCY CELL	<b>NDUSTRIA</b>	L CON	ISULTA	NCY C	ELL				Ar	Amount in ₹
			Gross Block	ock		De	Depreciation for the year 2016-17	the year 2016-	-17	Net I	Net Block
S. No	. Assets Heads	Opening Balance 01.04.2016	Additions	Additions Deductions	Closing Balance	Depreciation Opening Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31.03.2017	31.03.2016
	1 LAND	-				-		-	-	-	-
	2 SITE DEVELOPMENT	•	•	•			•		•		I
	3 BUILDINGS	•	•			•	•	-	•		I
Ĺ	4 ROADS AND BRIDGES	•					•	-	•		I
	5 TUBEWELLS AND WATER SUPPLY	•					•	-	•	-	I
	6 SEWERAGE AND DRAINAGE	-		•	•	-	•	-	-	-	•
	T ELECTRICAL INSTALLATION AND	-	-			-		-	-	-	-
	EQUIPMENT		T								
	8 PLANT AND MACHINERY	•		ı			'		ı		I
	9 SCIENTIFIC AND LABORATORY	ľ	·		•	I	I	I	I	•	I
-	EVOLIMENT										
-	U UFFICE EQUIFIMENT	•	'	1		•	'	-	1		'
	I AUDIO VISUAL EQUIPMENT		•	•				•			
	12 COMPUTERS AND PERIPHERALS	89,016.00	'		89,016.00	88,685.00	66.00		88,751.00	265.00	331.00
1	3 FURNITURE, FIXTURES AND FITTINGS	I	'	'	'			-	•		1
Ļ	14 VEHICLES		-	-	-	•	•	-	-	-	•
1	LIB BOOKS AND SCIENTIFIC	•	1	•	•	•	ľ	•	-	•	•
	JOURNALS										
	16 SMALL VALUE ASSETS	•		'		1	•	-		-	1
	Total (A)	89,016.00	'	'	89,016.00	88,685.00	66.00		88,751.00	265.00	331.00
1	17 CAPITAL WORK IN PROGRESS		-	'		-	•	-	I	-	ı
	Total (B)	-	-	•	•	-	•	-	-	-	•
1	18 COMPUTER SOFTWARE	-	•	•	•	•	•	-	•	-	•
1	19 E-JOURNALS		-	•	•	•	•	-	•	-	•
0	20 PATENTS AND COPYRIGHTS		-	-	•	•	-	-	•	-	'
	Total (C)	•		•	•	•	•	-	•	-	•
	Grand Total (A+B+C)	89,016.00	I	'	89,016.00	88,685.00	66.00	•	88,751.00	265.00	331.00



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#### **SHEDULE-5 INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS**

		Amount in ₹
Particulars	Current Year	Previous Year
IN CENTRAL GOVERNMENT SECURITIES	-	-
DEBENTURES AND BONDS	-	-
IN STATE GOVERNMENT SECURITIES	-	-
OTHER APPROVED SECURITIES	-	-
SHARES	-	-
TERM DEPOSIT WITH BANKS	109,998,840.10	276,339,743.00
OTHER TO BE SPECIFY	-	-
Total	109,998,840.10	276,339,743.00

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#### **SHEDULE-5(A) INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS**

#### Amount in ₹

Particulars	Current Year	Previous Year
Term Deposit With Banks		
FDR CANARA BANK STUDENT FUND	-	-
FDR CORPUS FUND CANARA BANK	-	-
FDR CORPUS FUND WITH ICICI BANK	-	161,838,274.00
FDR OF REGISTRAR CORPUS FUND WITH SBI BANK	41,234,107.00	38,305,689.00
FDR OF REGISTRAR STAFF DEVELOPMENT FUND WITH SBI	27,205,649.00	25,284,899.00
FDR R AND D FUND WITH ICICI BANK	-	-
FDR STUDENT FUND WITH YES BANK	41,546,071.10	-
FDR SWF WITH ICICI BANK	-	-
DEPOSIT WITH PD ACCOUNT NO.15 (PENSION)	13,013.00	11,082.00
FDR (TEQIP)	-	50,899,799.00
Total	109,998,840.10	276,339,743.00

Note 1. The Total in this sub schedule will agree with the total in Schedule 5.

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### **SCHEDULE-6 INVESTMENTS - OTHERS**

	Amount in ₹			
Particulars	Current Year	Previous Year		
IN CENTRAL GOVERNMENT SECURITIES	-	-		
IN STATE GOVERNMENT SECURITIES	-	-		
OTHER APPROVED SECURITIES	-	-		
SHARES	-	-		
DEBENTURES AND BONDS	-	-		
OTHERS	_	-		
Total	-	-		

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#### **SCHEDULE-7 CURRENT ASSETS**

Amount in ₹

Particulars	Income	<b>Previous Year</b>
1. STOCK		
a) STORES AND SPARES	-	-
b) LOOSE TOOLS	-	-
c) PUBLICATIONS	-	-
d) LABORATORY CHEMICALS CONSUMABLES AND GLASS WARE	-	-
e) BUILDING MATERIAL	-	-
f) ELECTRICAL MATERIAL	-	-
g) STATIONERY	-	-
h) WATER SUPPLY MATERIAL	-	-
2. SUNDRY DEBTORS		
a) DEBTS OUTSTANDING FOR A PERIOD EXCEEDING SIX MONTHS	-	-
b) OTHERS	-	-
LOAN TO IIIT KOTA	-	
3. CASH AND BANK BALANCES		
CASH ACCOUNT	240,562.00	455,769.00
POSTAGE	3,632.00	3,632.00
UNESCO COUPONS	558.03	558.03
UNIVERSITY FORMS(STOCK)	13,125.00	13,125.00
a) WITH SCHEDULED BANKS		
IN CURRENT ACCOUNTS	171,001,872.15	38,787,441.93
IN TERM DEPOSIT ACCOUNTS	399,116,283.10	209,986,895.05
IN SAVINGS ACCOUNTS	229,326,820.68	264,917,181.79
b) WITH NON - SCHEDULED BANKS		
IN TERM DEPOSIT ACCOUNTS	-	-
IN SAVINGS ACCOUNTS	-	-
4. POST OFFICE-SAVING ACCOUNTS	-	-
Total	799,702,852.96	514,164,602.80

<u>Note</u>1.

Annexure A shows the details of Bank Accounts.

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#### **ANNEXURE A**

		Amount in ₹
Particulars	Current Year	Previous Year
CASH ACCOUNT		
CASHACCOUNT	83,555.00	247,573.00
CASH BALANCE GUEST HOUSE	157,007.00	208,196.00
CASH BALANCE CBERD	-	-
Tota	1 240,562.00	455,769.00
POSTAGE		
POSTAGE	3,632.00	3,632.00
Tota	1 3,632.00	3,632.00
UNESCO COUPONS		
UNESCO COUPONS	558.03	558.03
Tota	1 558.03	558.03
UNIVERSITY FORMS(STOCK)		
UNIVERSITY FORMS ( STOCK)	13,125.00	13,125.00
Tota	1 13,125.00	13,125.00
IN CURRENT ACCOUNTS		
ICICI CA-0011	171,001,872.15	38,787,441.93
Tota	l 171,001,872.15	38,787,441.93
IN TERM DEPOSIT ACCOUNTS		
FDR INSTITUTE FUND WITH YES BANK	13,485,780.29	-
FDR SCHOLARSHIP WITH YES BANK S.K. GUPTA AWARD	150,000.00	150,000.00
FDR WITH ICICI	147,400,000.00	-
FDR WITH INDUSIND BANK	100,663,828.77	-
FDR WITH SBBJ RKS SANKUL JAIPUR SWAMI SHIVANAAM MEMORIAL SCHOLARSHIP	1,210,500.00	1,209,450.00
FDR WITH YES BANK OF RAJ SARLA BHARGAV	172,634.57	(
FDR WITH YES BANK OF RAM AND SHANTI BHARGAV	254,355.91	(
FIXED DEPOSIT RECEIPTS FROM FIRMS	35,000.00	35,000.00
ICC WITH YES BANK	-	53,258,756.85
CMSIC WITH YES BANK	6,077,179.88	5,600,272.69
FDR R AND C WITH YES BANK	111,126,506.68	133,348,354.92
FDR GUEST HOUSE	9,428,945.00	-
FDR CBERD WITH SBI	9,111,552.00	16,385,060.59
Tota	l 399,116,283.10	209,986,895.05
IN SAVINGS ACCOUNTS		
ICICI SB-105615	26,717,224.22	53,331,032.31
ICICI-20586	10,320,536.59	9,858,985.59
OBC SB-22670	221,307.00	1,476,229.00



		Amount in ₹
Particulars	<b>Current Year</b>	<b>Previous Year</b>
SBBJ - PD15	84,507.00	78,211.00
SBI 10125472413	293,010.94	278,823.94
SBI-CORPUS FUND SB-36164	436,061.00	231,715.00
SBI-MNIT SB-81946	10,838,759.58	12,851,510.09
SBI-STAFF DEVALOPMENT SB-67320	290,708.00	154,477.00
YES BANK SB-355	6,002,183.12	90,314,092.29
OBC 12351	-	29.30
ME PART TIME		
SAVING BANK ACCOUNT ME PART TIME	266,003.00	250,889.00
CMSIC		
CMSIC SAVING BANK ACCOUNT	11,708.68	11,249.68
TEQIP		
SAVING BANK ACCOUNT WITH SBBJ	64,566.00	271,326.00
SAVING BANK ACCOUNT WITH ICICI	7,248,287.32	5,631,278.32
R AND C	-	
SAVING BANK ACCOUNT WITH ICICI	63,806,135.93	67,087,801.43
GUEST HOUSE		
SAVING BANK ACCOUNT	1,074,318.00	6,063,643.00
CONSULTANCY		
SAVING BANK ACCOUNT	101,308,317.09	5,223,451.93
U K INDIA		
SAVING BANK ACCOUNT	333,606.35	320,555.35
IMPACT COMPUTER SSS STREAM PROJECT		
SAVING BANK ACCOUNT	-	69,381.00
IMPACT ELECTRONIC SSS STREAM PROJECT		
SAVING BANK ACCOUNT	-	30,501.48
CBERD		
SAVING BANK ACCOUNT	9,580.86	11,381,999.08
То	tal 229,326,820.68	264,917,181.79
Grand To	tal 799,702,852.96	514,164,602.80

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Particulars	Current Year	<b>Previous Year</b>
1. ADVANCES TO EMPLOYEES (NON INTEREST BEARING)		
SALARY	5,000.00	5,000.00
DEPARTMENTAL ADVANCE	5,270,482.00	6,200,104.00
IMPACT COMPUTER STAFF ADVANCE	116,687.00	-
IMPACT ELECTRONICS STAFF ADVANCE	61,333.00	-
LTC ADVANCE	1,414,512.00	2,158,638.00
PERMANENT ADVANCE	378,046.00	416,425.00
TEQIP	15,000.00	614,600.00
R AND C	1,002,925.00	266,504.00
GUEST HOUSE	2,877,143.75	1,814,296.00
ME PART TIME	12,895.00	12,895.00
CONSULTANCY	130,000.00	209,589.00
CBERD	19,000.00	15,000.00
2. LONG TERM ADVANCES TO EMPLOYEES (INTEREST BEARING)		
FOOD GRAIN LOAN BANK	24,478.00	9,543.00
VEHICLE LOAN	-	-
HOME LOAN	-	-
3. ADVANCES AND OTHER AMOUNTS RECOVERABLE IN CASH OR IN KIND OR FOR VALUE TO BE RECEIVED		
(a) ON CAPITAL ACCOUNT		
ADVANCE TO AVAS VIKAS LTD.	18,650,367.00	18,650,367.00
ADVANCE TO AVAS VIKAS SANSTHAN	1,162,448.00	1,162,448.00
ADVANCE TO CPWD	59,831,805.00	33,573,147.00
ADVANCE TO M/S KMV PROJECT LTD., HYDERABAD	13,824,139.00	15,570,840.00
ADVANCE TO PHED	75,200,000.00	75,200,000.00
EX. ENGG. PWD	1,467,467.68	1,467,467.68
(b) TO SUPPLIERS		
ADVANCE TO M/S GLOBAL PRESENTATION, JAIPUR	-	4,045,148.00
ADVANCE TO CEG TEST HOUSE AND RESEARCH CENTRE PVT	50,000.00	50,000.00
ADVANCE TO FIRM	3,038,165.00	3,038,165.00
ADVANCE TO INTERNAL INDUSTRIAL GASES LTD HAWRAH	73,853.00	73,853.00
ADVANCE TO M/S FRANCIS KLEIN AND CO.PVT.LTD	-	304,026.00
ADVANCE TO M/S KAMLESH OVERSEAR PVT LTD	-	-
ADVANCE TO M/S NATURAL INFORMATICS CENTRE SERVICE.	-	-
ADVANCE TO M/S R K FRIGHT SYSTEM	929,098.00	806,079.00
ADVANCE TO M/S S S ENGINEERS CORPORATION	-	-
ADVANCE TO M/S SYNCOTTS INTERNATIONAL NEW DELHI	-	-
ADVANCE TO MRF	6,280.00	6,280.00
ADVANCE TO RENEWABLE ENERGY CHAIR	154,800.00	154,800.00
ADVANCE TO VARDHMAN FAB TECH JAIPUR		-8,679.00





Particulars	Current Year	<b>Previous Year</b>
(c) OTHERS		i i conous i cui
ADVANCE FOR LAB. WORK	34,000.00	34,000.00
ADVANCE FOR EAD. WORK ADVANCE TO GROUND WATER BOARD	79,858.00	79,858.00
ADVANCE TO GROUND WATER BOARD	79,838.00	/9,858.00
ADVANCE TO MIT ROTA ADVANCE TO M/S RAJASTHAN ELECTRONIC AND INSTRUMENT	-	-
	8,740.00	-
ADVANCE TO M/S INDUCTOTHERM INDIA PVT LTD AHMEDABAD	8,740.00	-
ADVANCE TO M/S PROFESSIONAL HR SERVICES PVT LTD ADVANCE TO R and C	40,000.00	102,000.00
ADVANCE TO SHRI O.P. SINGHAL, ADVOCATE	10,000.00	102,000.00
ADVANCE TO STORES OFFICER	755,647.17	755,647.17
ADVANCE TO STOKES OF HEEK	156,259.00	138,731.00
AIEEE COUNSELLING EXPENCESS	12,130.00	12,130.00
ASI (DEPOSIT HEAD)	5,083.50	4,796.00
CENTRE OF ENERGY AND ENVIRONMENT	302,119.00	302,119.00
GRANT IN AID IIIT PLAN	502,119.00	
ITTC	500.00	500.00
LOAN TO PF TRUST	-	
MBA COURSE	17,296.00	17,296.00
MNIT PENSION FUND	30,811.00	30,811.00
PAYABLE TO CBERD	-	
RECEIVABLE FROM MESS COUNCIL		25,797,500.00
RECOVERABLE FROM CCMT-2014		-20,000.00
RECOVERABLE FROM MBA DEPARTMENT		
TDS / INCOME TAX (SAL) DEPOSIT HEAD)		7,422,837.78
TEQIP		188,866.00
R AND C	24,700,000.00	
CONSULTANCY (RECEIVABLE FROM MNIT)	,,,	50,000,000.00
CONSULTANCY	8,127.70	8,127.25
UK INDIA	1,078,615.00	1,078,615.00
IMPACT COMPUTER SSS STREAM	-	116,687.00
IMPACT ELECTRONIC SSS STREAM	-	61,333.00
4. PREPAID EXPENSES		· · · · · ·
(A) INSURANCE	-	-
(B) OTHER EXPENSES		
PREPAID EXPENSES	4,754,036.00	1,980,452.00
5. DEPOSITS		, ,
AJIT SERIVCE STATION ( PETROL PUMP)	15,000.00	15,000.00
CHANDRA INDUSTRIES	150.00	150.00
INDIAN OXYGEN LTD.	4,000.00	4,000.00
JAIPUR GAS SERVICE	6,700.00	6,700.00
JAIPUR ROTTING COMPANY	10,000.00	10,000.00
JVVN LIMITED, JAIPUR	4,110,963.00	868,731.00
KRISHANA AND COMPANY	200.00	200.00



		Amount in ₹
Particulars	<b>Current Year</b>	<b>Previous Year</b>
M/S SANGHI OXYGEN COMPANY	1,800.00	1,800.00
MAHALAXMI GAS SERVICE	25,200.00	25,200.00
NIT DELHI DEPOSIT	528,309.00	528,309.00
OM GAS AGENCY	6,750.00	6,750.00
RSEB	1,139,697.00	1,139,697.00
SECURITY DEPOSIT TO BSNL	100,680.00	100,680.00
TELEPHONE DEPARTMENT	17,500.00	17,500.00
STAFF CLUB (TECHING) (DEPOSIT HEAD)	670.00	-
6. INCOME ACCRUED		
RECOVERABLE FROM CCMN	-	-79,600.00
RECOVERABLE FROM CCMT	-	-500,200.00
RECOVERABLE FROM CSAB	2,173,000.00	2,173,000.00
RECOVERABLE FROM DASA	6,313,504.44	289,715.42
RECOVERABLE FROM ICCR	-	121,423.95
ON INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	-	-
ON INVESTMENTS OTHERS	-	-
ON LOANS AND ADVANCES	-	-
ACCRUED INTEREST CMSIC	223,388.14	253,519.05
ACCRUED INTEREST (ICC)	2,465,881.00	-
OTHERS	-	-
7. OTHER CURRENT ASSETS RECEIVABLE FROM UGC / SPONSORED PROJECTS		
DEBIT BALANCES IN SPONSORED PROJECTS(STAFF DEVELOPMENT PROGRAMME) DR. VINEET SAHULA	35,440.00	35,440.00
DEBIT BALANCES IN SPONSORED PROJECTS(UK INDIA REC PROJECT)	-	-
DEBIT BALANCES IN SPONSORED FELLOWSHIPS AND SCHOLARSHIPS	-	-
DEBIT BALANCES IN SPONSORED PROJECTS IN CAREER AWARD TO DR. MANOJ FOZDAR	36,384.00	-
DEBIT BALANCES IN SPONSORED PROJECTS IN CAREER AWARD TO DR. RAJESH KUMAR	18,932.00	-
ADVANCE APPLICATION BALANCE ON POWER ELECTRONIC	281,877.00	281,877.00
ALTERNATE AUTOMOBILE FUELS	207,760.00	207,760.00
APPLIED ECONOMICS AND QUANTITAVE TECH	235,190.00	235,190.00
DEVELOPING TEACHING SKILLS IN MANAGEMENT COURSE	382,809.00	382,809.00
EMERGING TOOLS AND TRENDS IN OPEN SOURCE COMPUTING	242,856.00	242,856.00
MANAGEMENT AND MITIGAATION OF NATURAL DISATATERS	382,246.00	382,246.00
OPERATION CONTROL OF MORDEN POWER SYSTEM	294,506.00	294,506.00
RECENT ADVANCE IN MICROWAVE AND WIRELESS COMMUN.	409,340.00	409,340.00
WINTER SCHOOL SOFT COMPUTER SKILL IN ENG	333,103.00	333,103.00
INDACON 2013	2,400.00	2,400.00
AASP 2013	-	2,000.00
KVPY PROJECT	172.00	172.00
NSS	44.00	44.00
CSAB 2014	86,027.00	86,027.00
DST FELLOWSHIP (PARUL GUPTA)	-	11,528.00
BLITZSCHLAG-14	95,279.00	145,279.00





		Amount in ₹
Particulars	Current Year	Previous Year
GRANT RECEVIABLE FROM GOVT. OF INDIA	80,000,000.00	
GRANT RECEIVABLE FROM MINISTRY OF STEEL	-	600,000.00
UK INDIA	3,859,378.95	3,859,378.95
PROJECT GRANT		
INVESTIGATION OF HEAT TRANSFER BOILING WATER	15,000.00	-
LAB ENHANCEMENT UNDER NPEEE	91,200.00	-
TOPTEC PROJECT FLEXIBLE	21,458.50	-
VIRTUAL CLASSROOM	53,231.00	-
TRAVEL, SEMINAR AND OTHER GRANT		
WATER DESALINATION TREATMENT	75,888.00	-
WATER QUALITY MANAGEMENT NON NABL	33,433.00	-
OTHERS		
CCMT HELPING CENTRE	37,507.00	
CSAB HELPING CENTRE 2014	77,202.00	
PWD REQUIREMENT EXAMINATION	55,002.00	
08. CLAIMS RECEIVABLE		
Grand Total	322,216,204.83	266,433,373.25

#### <u>Note</u>

If revolving funds have been created for House Building, Computer and Vehicle advances to employees, the advances will appear as part of Earmarked/ endowment Funds. The balance against these interest-bearing advances will not appear in this schedule.

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#### **SCHEDULE-9 ACADEMIC RECEIPTS**

	-	Amount in ₹
Particulars	Current Year	Previous Year
ACADEMIC		
ADMISSION PROCESSING FEE	9,875,700.00	13,144,570.49
FEE RECEIVED	59,700.00	-
INSTITUTE FEE (INCOME)	242,361,752.50	224,696,352.25
Tota	1 252,297,152.50	237,840,922.74
09.02 EXAMINATIONS		
Tota	1 -	-
09.03 OTHER FEES		
Tota		-
09.04 SALE OF PUBLICATIONS		
SALE OF APPLICATION FORMS FOR ADMISSION TO M.TECH./MBA	1,460,000.00	-
Tota	1,460,000.00	-
09.05 OTHER ACADEMIC RECEIPTS		
Tota	1 -	-
Grand Tota	1 253,757,152.50	237,840,922.74

#### <u>Note</u>

In case fees like entrance fee, subscriptions etc are material and are in the nature of capital receipts, such amount should be recognized to the Capital Fund. Otherwise such fees will be appropriately incorporated in this schedule.

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Amount in ₹	Previous Year	-234,006,801.79	1,078,056,858.00	,	844,050,056.21		844,050,056.21	948,911,010.39	-104,860,954.18	567,268,381.91	-672,129,336.09
	Current Year	-672,129,336.09	1,359,460,803.00	·	687,331,466.91	-	687,331,466.91	510,982,762.29	176,348,704.62	626,469,335.88	-450,120,631.26
	PLAN GRANT FOR BARRIER FREE ENV SIPDA	17,380,858.00	ı	ı	17,380,858.00	-	17,380,858.00	-	17,380,858.00		17,380,858.00
()	NODAL CENTER GRANT	-4,601,978.26	ı	·	-4,601,978.26	-	-4,601,978.26	-	-4,601,978.26	829,291.00	-5,431,269.26
	PLAN GRANT GOVT. OF RAJASTHAN	-350,000.00	'		-350,000.00		-350,000.00		-350,000.00		-350,000.00
	PLAN RECURRING GRANT GOVT. OF RAJASTHAN	-12,680.78	ı	ľ	-12,680.78	-	-12,680.78		-12,680.78	1	-12,680.78
	NON PLAN RECURRING GRANT GOVT. OF RAJASTHAN	4,726,421.10	·	·	-4,726,421.10		-4,726,421.10		-4,726,421.10		-4,726,421.10
	QIP POLY GRANT	-4,842,102.00	6,460,803.00		1,618,701.00		1,618,701.00		1,618,701.00		1,618,701.00
	PHE GRANT	-12,294,015.51	ı	ľ	-12,294,015.51	-	-12,294,015.51	1	-12,294,015.51	2,657,862.00	-14,951,877.51
	NON PLAN GRANT	-73,533,215.54	503,000,000.00	r	429,466,784.46	-	429,466,784.46		429,466,784.46	471,596,072.88	-42,129,288.42
	PLAN GOVT. OF INDIA	-589,149,780.90	850,000,000.00		260,850,219.10	-	260,850,219.10	510,982,762.29	-250,132,543.19	151,386,110.00	-401,518,653.19
	Particulars	Balance B/F	Add: Receipts during the Year	Add: Income	Total	Less: Refund	Balance	Utilized for Capital Expenditure (A)	Balance	Utilized for Revenue Expenditure (B)	Balance C/F

A - Appears as addition to Capital Fund as well as additions to Fixed Assets during the year.

B - Appears as income in the Income & Expenditure Account.

C - (I) Appears under Current Liabilities in the Balance Sheet and will become the opening balance next year. (II) Represented by Bank balances, Investments and Advances on the assets side.

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**SCHEDULE 11 - INCOME FROM INVESTMENTS** 

		,		Amount in ₹
	Earmarked / Endowment Funds	lowment Funds	Other Investments	estments
Particulars	Current Year	Previous Year	Current Year	Previous Year
1. INTEREST				
a. ON GOVERNMENT SECURITIES				
b. OTHER BONDS/DEBENTURES			I	•
2. INTEREST ON TERM DEPOSITS	•	•		•
3. INCOME ACCRUED BUT NOT DUE ON TERM DEPOSITS	•	•	•	•
/ INTEREST BEARING ADVANCES TO EMPLOYEES				
4. INTEREST ON SAVINGS BANK ACCOUNTS	•	•	•	•
5. OTHERS (SPECIFY)	•	•		•
TOTAL				-
TRANSFERRED TO EARMARKED/ENDOWMENT FUNDS		•		•
BALANCE				-
Interest accrued but not due on Term Deposits from HBA fund, conveyance advance fund and Computer Advance fund and on interest bearing	veyance advance fund and	and Computer Adv	ance fund and on in	terest bearing

advances to employees will be included here (Item 3), only where Revolving funds (EMF) for such advances have been set up.

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#### **SCHEDULE 12 - INTEREST EARNED**

SCHEDULE IZ - INTEREST EARNED		Amount in ₹
Particulars	Current Year	Previous Year
1. ON SAVING ACCOUNTS WITH SCHEDULED BANKS		
MNIT INTEREST A/C (INCOME)	14,654,393.91	29,438,018.82
CMSIC	447,235.28	478,628.21
STUDENT FUND	-	-
ICC	1,099,849.26	12,796,729.06
ME PART TIME	15,114.00	30,508.00
UK INDIA REC PROJECT	13,051.00	15,456.00
IMPACT COMPUTER	-	1,349.00
IMPACT ELECTRONIC	-	-
2. ON LOANS		
(a) EMPLOYEES / STAFF	-	-
(b) OTHERS	-	-
3. ON DEBTORS AND OTHER RECEIVABLES	-	-
Total	16,229,643.45	42,760,689.09

#### Note

- 1. The amount against item 1, in respect of Bank Accounts of Earmarked / Endowment Funds is dealt with in Schedule 11 (First Part) and Schedule 2.
- 2. Item 2(a) is applicable only if Revolving Funds have not been constituted for such advances.

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#### **SCHEDULE 13 -Other Income**

Items of material amounts included in Miscellaneous Income should be separately disclosed.

		Amount in ₹
Particulars	Current Year	<b>Previous Year</b>
A. INCOME FROM LAND AND BUILDINGS		
GUEST HOUSE A/C	-	-
HOSTEL ROOM RENT (INCOME)	22,404,400.00	21,248,500.00
LIGHT AND WATER CHARGES (INCOME)	33,735,260.00	30,603,438.00
QUARTER RENT(INCOME)	931,766.00	1,236,343.00
RENT OF BUILDING (INCOME)	28,455.00	52,910.00
WATER CHARGES (INCOME)	134,160.00	204,951.00
Total	57,234,041.00	53,346,142.00
B. SALE OF INSTITUTES PUBLICATIONS		
Total	-	-
C. INCOME FROM HOLDING EVENTS		
Total	-	_
D. OTHERS		
APPLICATION FEE AGAINST ADVERTISEMENT OF POST	1,888,575.00	-
FINE FOR LATE FEES	-	118,000.00
INTEREST ON MOBILIZATION ADVANCE	-	1,218,277.00
LEAVE SALARY	243,842.00	0
MISC. INCOME (INCOME)	2,338,506.52	970,278.71
PENSION CONTRIBUTION	318,827.00	0
SALE OF PENSION SET	220.00	220.00
ICC	222.00	-
Total	4,790,192.52	2,306,775.71
Grand Total	62,024,233.52	55,652,917.71

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### **SCHEDULE-14 PRIOR PERIOD INCOME**

		Amount in <i>&lt;</i>
Particular	Current Year	Previous Year
ACADEMIC RECEIPTS	-	-
INCOME FROM INVESTMENTS	-	-
INTEREST EARNED	-	-
OTHER INCOME	153,982.00	924,562.00
TOTAL	153,982.00	924,562.00

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#### **SCHEDULE-15 STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)**

These shall be classified separately for teaching and non-teaching staff; adhoc staff, Arrears of DA, Salary arrears due to increment shall be shown separately. Amount in ₹

		Current Year			Previous Ye	ar
Particular	Plan	Non Plan	Total	Plan	Non Plan	Total
BONUS (NON TEACHING STAFF)	-	2,660,827.00	2,660,827.00	-	877,120.00	877,120.00
CHILDREN EDUCATION ALLOWANCE	-	4,504,483.00	4,504,483.00	-	5,081,314.00	5,081,314.00
COMMUTATION OF PENSION	-	5,270,975.00	5,270,975.00	-	3,189,150.00	3,189,150.00
CPDA (CONTINGENCY)	-	15,103,015.31	15,103,015.31	-	5,307,259.35	5,307,259.35
DEARNESS ALLOWANCE (M. TECH. PHE/ENVIO.ENGG.)	-	1,213,596.00	1,213,596.00	-	1,064,643.00	1,064,643.00
DEARNESS ALLOWANCE (NODAL CENTRE)	-	410,719.00	410,719.00	-	355,632.00	355,632.00
DEARNESS ALLOWANCE (NON TEACHING STAFF)	-	65,250,397.00	65,250,397.00	-	56,998,709.00	56,998,709.00
DEARNESS ALLOWANCE (TEACHING STAFF)	-	149,229,518.00	149,229,518.00	-	130,125,050.00	130,125,050.00
DEPUTATION ALLOWANCE	-	27,570.00	27,570.00	-	51,678.00	51,678.00
EARNED LEAVE ENCASHMENT FOR LTC	-	1,944,316.00	1,944,316.00	-	695,879.00	695,879.00
ENCASHMENT OF LEAVE ON RETIREMENT	-	-	-	-	35,761,067.00	35,761,067.00
FWA	-	69,600.00	69,600.00	-	69,600.00	69,600.00
FWA (NT)	-	5,400.00	5,400.00	-	5,400.00	5,400.00
GRADE PAY (M. TECH. PHE/ENVIO.	-	120,000.00	120,000.00	-	120,000.00	120,000.00
GRADE PAY (NODAL CENTRE)	-	55,200.00	55,200.00	-	55,200.00	55,200.00
GRADE PAY (NON-TEACHING)	-	10,805,970.00	10,805,970.00	-	10,623,554.00	10,623,554.00
GRADE PAY (TEACHING)	-	19,044,986.00	19,044,986.00	-	18,618,795.00	18,618,795.00
GRATUITY	-	-	-	-	109,011,721.00	109,011,721.00
GUEST FACULTY	-	18,118,204.00	18,118,204.00	-	16,351,172.00	16,351,172.00
HONORARIUM TO STAFF	-	7,700.00	7,700.00	-	-	-
HOUSE RENT ALLOWANCE (NODAL CENTRE)	-	62,346.00	62,346.00	-	60,516.00	60,516.00
HOUSE RENT ALLOWANCE (NON TEACHING STAFF)	-	6,241,872.00	6,241,872.00	-	6,215,887.00	6,215,887.00
HOUSE RENT ALLOWANCE (TEACHING STAFF)	-	10,494,148.00	10,494,148.00	-	9,644,054.00	9,644,054.00
LEAVE SALARY CONTRIBUTION	-	247,102.00	247,102.00	-	243,970.00	243,970.00
LTC	-	8,587,507.00	8,587,507.00	-	4,342,113.00	4,342,113.00
MEDICAL ALLOWANCE TO PENSIONERS	-	2,150,635.00	2,150,635.00	-	2,419,488.00	2,419,488.00
MEDICAL REIMBURSEMENT	-	8,114,595.00	8,114,595.00	-	6,952,494.00	6,952,494.00
NON PRACTICE ALLOWANCE	-	185,496.00	185,496.00	-	216,785.00	216,785.00



		Current Year			Previous Yes	ar
Particular	Plan	Non Plan	Total	Plan	Non Plan	Total
NURSING ALLOWANCE	-	47,680.00	47,680.00		-	
OTHER ALLOWANCE (NON TEACHING STAFF)	-	43,239.00	43,239.00	-	45,720.00	45,720.00
OVERTIME ALLOWANCE (NON- TEACHING)	-	25,456.00	25,456.00	-	21,797.00	21,797.00
PAY OF ESTABLISHMENT (CONTRACTUAL)	400,000.00	79,297,772.00	79,697,772.00	-	74,475,546.00	74,475,546.00
PAY OF ESTABLISHMENT (NON TEACHING STAFF)	-	33,884,925.00	33,884,925.00	-	34,158,785.00	34,158,785.00
PAY OF ESTT. (NODAL CENTRE)	-	256,530.00	256,530.00	-	247,380.00	247,380.00
PAY OF OFFICERS (M. TECH. PHE/ENVIO.ENGG.)	-	801,120.00	801,120.00	-	785,820.00	785,820.00
PAY OF OFFICERS (NON TEACHING STAFF)	-	8,949,365.00	8,949,365.00	-	7,768,438.00	7,768,438.00
PAY OF OFFICERS (TEACHING STAFF)	-	95,740,780.00	95,740,780.00	-	94,266,179.00	94,266,179.00
PENSION (DEPUTATION) CONTRIBUTION	-	399,535.00	399,535.00	-	223,649.00	223,649.00
PENSION (EXPENDITURE)	-	97,027,814.00	97,027,814.00	-	90,856,265.00	90,856,265.00
PROVISION FOR PENSION	-	-	-	-	-	-
EXPENDITURE PENSION (NON-TEACHING) CONTRIBUTION	-	4,856,626.00	4,856,626.00	-	4,277,228.00	4,277,228.00
PENSION (TEACHING) CONTRIBUTION	-	6,204,937.00	6,204,937.00	-	5,017,035.00	5,017,035.00
SPECIAL ALLOWANCE (TEACHING)	-	15,000.00	15,000.00	-	60,000.00	60,000.00
SPECIAL PAY (TEACHING STAFF)	-	27,903.00	27,903.00	-	2,600.00	2,600.00
T.A. (NODAL CENTRE)	-	44,496.00	44,496.00	-	41,760.00	41,760.00
TRANSPORTATION ALLOWANCE (NON- TEACHING)	-	11,295,887.00	11,295,887.00	-	10,555,895.00	10,555,895.00
TRANSPORTATION ALLOWANCE (PHE)	-	88,992.00	88,992.00	-	83,520.00	83,520.00
TRANSPORTATION ALLOWANCE (TEACHING)	-	17,201,084.00	17,201,084.00	-	15,475,958.00	15,475,958.00
TRAVELLING ALLOWANCE /DA	-	1,239,625.00	1,239,625.00		-	-
UNIFORM ALLOWANCE	-	7,450.00	7,450.00		-	-
WARDEN ALLOWANCE (TEACHING	-	1,154,793.00	1,154,793.00	-	1,154,775.00	1,154,775.00
STAFF) WASHING ALLOWANCE (NON TEACHING STAFF)	-	271,712.00	271,712.00	_	159,535.00	159,535.00
TOTAL	400,000	688,808,898.31	689,208,898.31	-	764,136,135.35	764,136,135.35

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SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS	D TERMINAL I	BENEFITS		Amount in ₹
Particular	PENSION	Gratuity	Leave Encashment	Total
OPENING BALANCE 01.04.2016	I	288,400,095.00	209,964,824.00	498,364,919.00
ADDITIONAL: CAPITALIZED VALUE OF CONTRIBUTIONS RECEIVED FROM OTHER ORGANIZATION	ı	I	I	I
TOTAL (A)	-	288,400,095.00	209,964,824.00	498,364,919.00
LESS: ACTUAL PAYMENT DURING THE YEAR (B)	ı	8,524,445.00	6,236,290.06	14,760,735.06
BALANCE C =(A-B)	•	279,875,650.00	203,728,533.94	483,604,183.94
PROVISION REQUIRED AS PER ACTUARIAL VALUATION (D)	1	95,398,490.00	66,709,300.00	162,107,790.00
A. PROVISION TO BE MADE IN THE CURRENT YEAR (D-C)	I	-184,477,160.00	-137,019,233.94	-321,496,393.94
B. CONTRIBUTION TO NEW PENSION SCHEME		I	I	I
C. MEDICAL REIMBURSEMENT TO RETIRED EMPLOYEES		I	I	I
D. TRAVEL TO HOMETOWN ON RETIREMENT		I	I	I
E. DEPOSIT LINKED INSURANCE PAYMENT		I	I	I
Total (A+B+C+D+E)	•	-184,477,160.00	-137,019,233.94	-321,496,393.94
Note	E			

1. The total (A+B+C+D+E) in this sub schedule will be the figure against Retirement and Terminal Benefits in Schedule 15.

2. Items B,C,D & E will be accounted on accrual basis and will include bills preferred but outstanding for payment on 31/3.

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#### **SCHEDULE-16 ACADEMIC EXPENSES**

SCHEDULE-16 ACADEMIC EXI	ENSES					Amount in ₹
Particular		Current Year				
	Plan	Non Plan	Total	Plan	Non Plan	Total
AFFILIATION AND COURSE REGISTRATION FEE	-	59,016.00	59,016.00	-	743,600.00	743,600.00
BOOKS AND PERIODICALS	-	419,386.00	419,386.00	-	2,261,826.00	2,261,826.00
CHEMICALS CONSUMABLE AND OTHER MATERIALS		5,298,891.00	5,298,891.00	-	3,804,554.00	3,804,554.00
CONTINGENT EXPENDITURE PHE		14,800.00	14,800.00	-	-	-
CONVOCATION EXP.	-	2,111,659.00	2,111,659.00	-	1,891,661.00	1,891,661.00
EXAMINATION FEES PHE		6,000.00	6,000.00	-	-	-
GOLDEN JUBILEE CELEBRATION	-		-	-	87,516.00	87,516.00
INVITED LECTURES	-	601,234.00	601,234.00	-	1,270,283.00	1,270,283.00
LEVEARAGE	-	427,681.00	427,681.00	-	134,684.00	134,684.00
M TECH SCHOLARSHIP EXPENDITURE	68,584,092.00	-	68,584,092.00	66,468,997.00	-	66,468,997.00
NATIONAL AND INTERNATIONAL CONFERENCE / SEMINAR / SYMPOSIUM		1,268,189.00	1,268,189.00	-	2,641,235.00	2,641,235.00
PHE SCHOLARSHIP EXPENDITURE	-	10,452.00	10,452.00	-	228,903.00	228,903.00
PROJECT WORK OF FINAL YEAR STUDENTS	-	649,363.00	649,363.00	-	168,205.00	168,205.00
RESEARCH SCHOLARSHIPS EXPNDITURE	76,342,170.00	-	76,342,170.00	74,980,861.00	-	74,980,861.00
STIPEND PHE		192,902.00	192,902.00		-	-
STUDENT ACTIVITY	-	578,748.00	578,748.00	-	206,181.00	206,181.00
TUTION FEES PHE		210,000.00	210,000.00	-	-	-
Total	144,926,262.00	11,848,321.00	156,774,583.00	141,449,858.00	13,438,648.00	154,888,506.00

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A. INFRASTRUCTURE

PARTICULAR

#### **SCHEDULE-17 ADMINISTRATIVE AND GENERAL EXPENSES**

Plan

**Current Year** 

Total

Non Plan

ELECTRICITY CHARGES	-	45,101,096.00	45,101,096.00	-	43,422,122.00	43,422,122.00
ERP (AMC)	-	3,461,364.00	3,461,364.00	-	2,590,332.00	2,590,332.00
INSURANCE OF INSTITUTE PROPERTY	-	-	-	-	165,063.00	165,063.00
INTERNET LEASE LINE	-	8,875,794.00	8,875,794.00	-	12,157,013.00	12,157,013.00
Total	-	57,438,254.00	57,438,254.00	-	58,334,530.00	58,334,530.00
B. COMMUNICATION						
POSTAGE TELEPHONE AND TELEGRAM	-	3,284,859.00	3,284,859.00	-800.00	2,952,304.23	2,951,504.23
Total	-	3,284,859.00	3,284,859.00	-800.00	2,952,304.23	2,951,504.23
C. OTHERS						
ADVERTISEMENT	-	1,090,088.00	1,090,088.00	-	3,277,784.00	3,277,784.00
AUDIT FEES	-	-	-	-	430,660.00	430,660.00
BANK CHARGES	-	508,003.11	508,003.11	-	-	-
BOARDING AND LODGING	-	179,738.00	179,738.00	-	685,571.00	685,571.00
CAMPUS WIDE NETWORK - RECURRING	2,217,144.00	-	2,217,144.00	181,607.00	659,459.00	841,066.00
CONTINGENT EXPENSES	-	2,635,165.81	2,635,165.81	-	4,264,687.00	4,264,687.00
FIRST AID AND MEDICINES	-	644,506.00	644,506.00	-	591,691.93	591,691.93
FOREIGN CURRENCY FLUCTUATION LOSS	-	1,203,791.24	1,203,791.24	-	239,924.71	239,924.71
FUEL CHARGES	-	-	-	-	123,912.00	123,912.00
GUEST HOUSE MAINTENANCE	-	-	-	-	11,400.00	11,400.00
HONORARIUM	-	-	-	-	172,340.00	172,340.00
HONORARIUM TO OUTSIDE EXPERT	-	348,260.00	348,260.00	-	-	-
LEGAL EXPENSES	-	689,803.00	689,803.00	-	608,470.00	608,470.00
MAINT. OF VEHICLES AND POL	-	282,693.00	282,693.00	-	931,662.00	931,662.00
NIT TRANSIT HOUSE, NEW DELHI OLD TRAVELLING ALLOWANCES	250,000.00	-	250,000.00	250,000.00	- 3,461,165.00	250,000.00 3,461,165.00
PATENT APPLICATION FEES	175,000.00	-	175,000.00	-	-	-
PRINTING AND STATIONERY	-	3,008,147.00	3,008,147.00	-	5,154,858.00	5,154,858.00
PUBLICITY EXPENSES	1,872,076.00	-	1,872,076.00	-	-	-
REFRESHMENT AND ENTERTAINMENT	-	1,073,556.00	1,073,556.00	-	1,488,492.00	1,488,492.00
REGISTRATION FEES	396,750.00	227,500.00	624,250.00	-	-	-
SUBSRIPTION TO ACADEMIC INSTITUTIONS	-	20,000.00	20,000.00	-	-	-
TRAVELLING & CONVEYANCE	-	14,654.00	14,654.00	-	-	-
OTHER ADMINSTRATIVE EXPENSES (ICC)		227,010.00	227,010.00	-	313,641.00	313,641.00
Total	4,910,970.00	12,152,915.16	17,063,885.16	431,607.00	22,415,717.64	22,847,324.64
Total	4,910,970.00	72,876,028.16	77,786,998.16	430,807.00	83,702,551.87	84,133,358.87
Transfer to Corpus, Staff						

324.64 358.87 Transfer to Corpus, Staff Development & Maintenance Fund 3,027,722.20 15,809,874.81 18,837,597.01 20,560,363.29 20,560,363.29 @2% of Administrative & Establishment Expenses **Grand Total** 7,938,692.20 88,685,902.97 96,624,595.17 430,807.00 104,262,915.16 104,693,722.16

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Amount in ₹

Total

**Previous Year** 

Non Plan

Plan



#### **SCHEDULE-18 TRANSPORTATION EXPENSES**

SCHEDULE-16 I KANSFUR		N EAFEINSE	20			Amount in ₹	
Particular		Current Yea	r	Previous Year			
rarucular	Plan	Non Plan	Total	Plan	Non Plan	Total	
FUEL CHARGES (VEHICLE)	-	295,929.00	295,929.00	-	-	-	
INSURANCE OF VEHICLES	-	11,028.00	11,028.00	-	-	-	
TRANSPORT ARRANGEMENT	-	574,025.00	574,025.00		212,303.00	212,303.00	
Total	-	880,982.00	880,982.00	-	212,303.00	212,303.00	

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#### **SCHEDULE-19 REPAIRS & MAINTENANCE**

Particulars —	Current Year				Previous Year			
r articulars —	Plan	Non Plan	Total	Plan	Non Plan	Total		
ESTATE MAINTENANCE	-	9,375,140.00	9,375,140.00	-	11,678,349.00	11,678,349.00		
GARDEN MAINTENANCE	-	295,925.00	295,925.00	-	513,879.00	513,879.00		
MAINT. OF AIR CONDITIONING / COOLERS	-	779,275.00	779,275.00	-	683,809.00	683,809.00		
MAINT. OF COMPUTERS	-	816,426.00	816,426.00	-	652,117.00	652,117.00		
MAINT. OF HOSTEL BUILDING (HOSTEL)	705,277.00	341,751.00	1,047,028.00	-	947,040.00	947,040.00		
MAINT. OF STAFF QUARTERS	-	844,305.00	844,305.00	-	250,964.00	250,964.00		
REPAIRS/RENEWAL OF FURNITURE AND EQUIPMENT	389,500.00	4,436,104.00	4,825,604.00	-	2,074,153.79	2,074,153.79		
SOFTWARE MAINTENANCE	54,101.00	-	54,101.00	-	-	-		
STP MAINTENANCE	-	183,000.00	183,000.00	-	-	-		
Total	1,148,878.00	17,071,926.00	18,220,804.00	-	16,800,311.79	16,800,311.79		

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#### **SCHEDULE-20 FINANCE COSTS**

SCHEDULE-20 FI	INANCE	COSTS				Amount in ₹		
Particulars		<b>Current Year</b>		Previous Year				
T at ticular 5	Plan	Non Plan	Total	Plan	Non Plan	Total		
BANK CHARGES	-	-	-	-	254,211.01	254,211.01		
Total	-	-	-	-	254,211.01	254,211.01		

#### <u>Note</u>

If the amount is not material, the head Bank charges could be omitted and these could be accounted as Administrative expenses in Schedule 17.

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### **SCHEDULE 21 - OTHER EXPENSES**



Amount in ₹

Particulars		Current Yes	ar		Previous Yea	ır
raruculars	Plan	Non Plan	Total	Plan	Non Plan	Total
BANK CHARGES	_	-	-	-	-	-
IRRECOVERABLE BALANCES WRITTEN - OFF	-	-	-	-	-	-
GRANTS/SUBSIDIES TO OTHER INSTITUTIONS / ORGANIZATIONS	-	-	-	-	-	-
OTHERS (SPECIFY)	-	-	-	-	-	-
Total	-	-	-	-	-	-

### Note:

Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss on sale of investments, loss of fixed assets and loss on sale of fixed assets etc and disclosed accordingly.

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### **SCHEDULE-22 PRIOR PERIOD EXPENSES**

						Amount in ₹
Deutioulous		Current Yea	r		<b>Previous Year</b>	
Particulars	Plan	Non Plan	Total	Plan	Non Plan	Total
Establishment expenses	-	-	-	-	-	-
Academic expenses	-	-	-	-	-	-
Administrative expenses		44,926.00	44,926.00	3,884,172.07	3,709,166.27	7,593,338.34
Transportation expenses	-	-	-	-	-	-
Repairs & Maintenance	-	-	-	-		-
Others expenses (Depreciation)	-	-1,037,340.96	-1,037,340.96	-	-	-
Total	-	-992,414.96	-992,414.96	3,884,172.07	3,709,166.27	7,593,338.34

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### **SCHEDULE: 23**

### SIGNIFICANT ACCOUNTING POLICIES

### 1. BASIS FOR PREPARATION OF ACCOUNTS

The accounts are prepared under the Historical Cost Convention unless otherwise stated and generally on the Accrual method of accounting.

### 2. REVENUE RECOGNITION

- **2.1** Fees from Students, Sale of Admission Forms, Royalty and Interest on Savings Bank account are accounted on cash basis.
- 2.2 Income from Land, Buildings and Other Property are accounted on cash basis.

### 3. FIXED ASSETS AND DEPRECIATION

- **3.1** Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning.
- **3.2** Gifted / Donated assets are valued at the declared value where available; if not available, the value is estimated based on the present market value adjusted with reference to the physical condition of the asset. They are set-up by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets.
- **3.3** Books received as gifts, are valued at selling prices printed on the books. Where they are not printed, the value is based on assessment.
- **3.4** Fixed assets are valued at cost less accumulated depreciation. Depreciation on fixed assets is provided on Straight line method, at the following rates:

### **Tangible Assets**:

1.	Land	0%
2.	Site Development	0%
3.	Buildings	2%
4.	Roads & Bridges	2%
5.	Tube wells & Water Supply	2%
6.	Sewerage & Drainage	2%
7.	Electrical Installation and equipment	5%
8.	Plant & Machinery	5%
9.	Scientific & Laboratory Equipment	8%
10.	Office Equipment	7.5%
11.	Audio Visual Equipment	7.5%
12.	Computers & Peripherals	20%
13.	Furniture, Fixtures & Fittings	7.5%
14.	Vehicles	10%
15.	Lib. Books & Scientific Journals	10%





### Intangible Assets (amortization):

1.	E-Journals	40%
2.	Computer Software	40%
3.	Patents and Copyrights	9 years

- **3.5** Depreciation is provided for the whole year on additions during the year.
- **3.6** Where an asset is fully depreciated, it will be carried at a residual value of Re. 1 in the Balance Sheet and will not be further depreciated. Thereafter, depreciation is calculated on the additions of each year separately at the rate of depreciation applicable for that asset head.
- **3.7** Assets created out of Earmarked Funds and funds of Sponsored Projects, where the ownership of such assets vests in the Institution, are setup by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets. Assets created out of Sponsored Project funds, where the ownership is retained by the sponsors but held and used by the Institution arc separately disclosed in the Notes on Accounts.
- **3.8** Assets, the individual value of each of which is Rs. 2000 or less (except Library Books) are treated as Small Value Assets, 100% depreciation is provided in respect of such assets at the time of their acquisition. However physical accounting and control are continued by the holders of such assets.
- **3.9** The TEQIP Project account is maintained on cash basis and no depreciation is charged on assets created out of project fund as per the World Bank Norms.
- **4. Intangible Assets**: Patents and copy rights, E Journals and Computer Software are grouped under Intangible Assets.
  - **4.1 PATENTS:** The expenditure incurred from time-to-time (application fees, legal expenses etc.) for obtaining Patents is temporarily capitalized and shown as part of Intangible Assets in the Balance Sheet. If applications for patents are rejected, the cumulative expenditure incurred on the particular patent is written off to the Income & Expenditure Account in the year the application is rejected.

The expenditure on Patents granted is written off over a life of 9 years on a conservative basis.

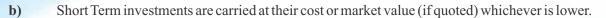
- **4.2** Electronic Journals (E-Journals) are separated from Library Books in view of the limited benefit that could be derived from the on-line access provided. E-journals are not in a tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefit derived in terms of perpetual knowledge acquired by the Academic and Research Staff; Depreciation is provided in respect of E-journals at a higher rate of 40% as against depreciation of 10% provided in respect of Library Books.
- **4.3** Expenditure on acquisition of software has been separated from computers and peripherals, as apart from being intangible assets, the rate of obsolescence in respect of these is very high. Depreciation is provided in respect of software at a higher rate of 40% as against depreciation of 20% provided in respect of Computers & Peripherals.

### 5. <u>RETIREMENT BENEFITS</u>

Provision for liability towards accumulated leave encashment of employees and gratuity payable on death/retirement of employees as on 31st March, 2017 has been done on actuarial basis.

### 6. <u>INVESTMENTS</u>

a) Long term investments are carried at their cost or face value whichever is lower. However any permanent diminution in their value as on the date of the Balance Sheet is provided for.



- c) Investments are to be valued at Cost, except in fixed deposit receipts are to be valued at cost plus interest accrued thereon.
- d) Cost shall include acquisition expenses like brokerage, transfer stamps etc.

### 7. <u>GOVERNMENT GRANTS/ SUBSIDIES</u> :

- 7.1 Government grants of the nature of contribution towards capital cost of setting up projects are treated as capital reserve.
- **7.2** Grants in respect of specific fixed assets acquired are made part of the capital reserve on utilization of the grant.
- **7.3** Receipt of fees are classified as per nature capital and revenue as per Accounting Standard 6 issued by the Institute of Chartered Accountants.
- 7.4 Government grant are accounted on Grant sanction/accrual basis.

### 8. FOREIGN CURRENCY TRANSACTIONS:

Receipt in foreign currency is recorded at the exchange prevailing on the date of transaction.

Exchange differences arising on the settlement of monetary items is recognized as income or as expenses in the period in which they arise.

9. Income/Surplus of Institute is exempted from Income Tax as per Section 10(23C) (iiiab) of Income Tax Act 1961.

### 10. ACCRUED INCOME

Accrued rent, electricity and water charges from various contractors are account for on actual realization basis due to conservative approach as per AS-1 (Prudence) issued by the Institute of Charted Accountant of India.

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### SCHEDULE: 24 CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

### 1. CONTINGENT LIABILITIUES:

- 1.1 As on 31.03.2017, the claim against the institution not acknowledged as debits Rs. Nil
- 1.2 Bank Guarantees given on behalf of the institution Rs. Nil
- 1.3 In respect of claims from parties for non execution of orders, but contested by the institution Rs. Nil
- **1.4** Estimated value of contracts remaining to be executed on capital account and not provided for (net of advances) Rs. Nil.
- 2. Nature of the fixed assets has been determined on provisional basis as the value of each class of fixed assets shown needs to be arrived at accurately, on the basis of examination of vouches of past years as well and this involve tremendous efforts and time. The depreciation charged thereon, therefore is subject to change on such recategorization of the fixed assets.
- **3.** In the opinion of the management, the value of the current assets, Loans and advances have the revisable value stated.
- 4. So far the cash system of accounting was being followed, but due to the inference drawn from the new format of accounts the system has been changed to the mercantile. Expenses paid for the earlier years.
- 5. Figures are exhibiting rounding them off in the Balance Sheet, Income Expenditure Account and Receipt and Payment Account.
- 6. All Grant received by Institute are refundable.
- 7. Schedules 1 to 24 are annexed to and form an integral part of the Balance Sheet as at 31.03.2017 and the Income and Expenditure Account for the year ended on that date.
- **8.** As per Accounting Principles approved by MHRD, figures in Balance Sheet and Income & Expenditure have been shown in lakh.
- 9. Previous Year Figures have been regrouped & rearranged wherever found necessary.

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Amount in Kupees Previous Year	520,823,849.96	146,513,146.00 121,491,200.66	212,303.00	13,547,907.00	2,186,277.00				13,616,949.20				222,598,989.62 207 662 614 00	00.410,200,772		I	I			664,639,716.92	53,081,924.33	I		1,423,710,599.80	53,682,338.02	
Current Year	160,852,631.65	316,161,350.75		I	I				18,200,973.54				135,521,025.89 02 400 015 00	00.016,004,76		5,918,261.74	I			800,207,934.46	58,405,546.00	I		744,772,907.00	23,929,661.44	19,414,550.98
PAYMENTS	I. Expenses a) Establishment Expenses	<ul><li>b) Academic Expenses</li><li>c) Administration Expenses</li></ul>	-	e) Repairs & Maintenance	II. Payments against Earmarked / Endowment Funds	III. Payments against Sponsored Projects/Schemes	IV. Payments against Sponsored Fellowships / Scholarships	V. Investments and Deposits made	a) Out of Earmarked/Endowments funds	<b>b)</b> Out of own funds (Investments – others)	VI. Term Deposits with Scheduled Banks	VII. Expenditure on Fixed Assets and Canital Works- in –Progress	a) Fixed Assets b) Canital Works-in Droutess	U) Capital WOLKS-III-FIOGUESS	VIII. Other Payments including statutory nayments	•	X. Deposits and Advances a) Farmarked funds	b) Secured Loans	c) Unsecured Loans	<b>d)</b> Other Liabilities and Provisions	e) Other Liabilities and Provisions(Units)	f) Provident/Endowment Funds Investments	g) Investment Others	h) Current Assets, Loans and Advances	i) Current Assets, Loans and Advances (Units)	37,509,852.44 XI. Other Payments (units) 22,075,673.73 XII. Closing Balances a) Cash in hand
<b>Previous Year</b>		104,853.00 184.129.00	558.03	3,632.00 $13,125.00$			$34,203,082.88 \Big  \frac{1}{1}$	<u> </u>	255,090,477.87	55,446,710.08	37,570,320.31	1	- 2123 377 67	20.21 0,021,0			8,967,964.59	-374,180.00	71,951.00	267,996.94	12,983,064.52	75,788,795.48	35,122,200.00	23,414,800.00		37,509,852.44 22,075,673.73
Current Year		247,573.00 208,196.00	558.03	3,632.00 13,125.00		I	38,787,441.93		226,823,312.00	46,492,890.80	129,818,281.23	50,000,000.00		0,000,212.02		53,331,032.31	9,858,985.59 29.30	1,476,229.00	78,211.00	278,823.94	12,851,510.09	90,314,092.29	231,715.00	154,477.00		5,223,451.93 67,087,801.43 -
RECEIPTS	I. Opening Balances a) <u>Cash Balances:-</u>	Institute Guest House	UNESCO Coupons	Postage University forms (stock)	b) <u>Bank Balance</u>	i) In Current Accounts	ICICI CA-0011	ii) In Deposit Accounts	Institute	Consultancy	R&C	TEQIP	CBERD	iii) Savings Accounts	Institute:-	ICICI SB-105615	ICICI-20586 OBC 12351	OBC SB-22670	P.D Account No. 15 ( Interest Bearing)	SBI 10125472413	SBI-MNIT SB-81946	YES BANK SB-355	SBI-Corpus Fund SB-36164	SBI-Staff Development SB- 67320	Institute Units:-	Consultancy R & C Research





Impact Computer SSS Stream	1	68,032.00	Institute	83 555 DD	247,573.00
Impact Electronic SSS		20 501 18			00 201 800
Stream	I	30,201.48	Guest House	100./00,/61	208,196.00
UK India ME Part Time	320,555.35	305,099.35	UNESCO Coupons Doctore	558.03 3 637 00	558.03 3 637 00
CBERD	11,381,999.08	13,704,043.50	University forms(stock)	13,125.00	13,125.00
CMSIC	11,249.68	10,707.68	b) Bank Balances		
Guest House TEOID	6,063,643.00 5 002 604 32	2,489,067.00	In Current accounts	21 003 100 121	38 787 111 03
II. Grants Received	20,2002,00	44,004,104.04	ii) In Deposit Accounts	1/1,001,0/2.10	CC.1++,101,0C
a) From Government of India				373,357,926.64	226,823,312.00
Plan Grant	790,000,000.00	720,000,000.00	2) Units (deposit)		16 103 800 80
PHE Grant	-	676,000.00	Consultancy R & C	-109,987,980.28	129,818,281.23
Nodal Centre Grant	I	I	TEQIP	I	50,000,000.00
QIP Grant TEOID Crant	6,460,803.00 2 500 000 00	-	CBERD	- 6 077 179 88	1,056,287.59 5 600 272 69
CBERD	-	9,529,500.00	GUEST HOUSE	9,428,945.00	0.7/7,000,0
CREATION OF BARRIER	I	17,380,858.00	iii) Savings accounts		
			Institute		
	I	1			
c) From other sources (details)	I	1	ICICI SB-105615	26,717,224.22	53,331,032.31
III. Academic Receipts	280,392,337.48	262,170,383.37	ICICI-20586 OBC 12351	10,320,536.59 -	9,858,985.59 29.30
IV. Receipts against Earmarked/ Endowmont Funds	I		OBC SB-22670	221,307.00	1,476,229.00
V. Receipts against Sponsored			P.D Account No. 15	84 507 00	78 211 00
Projects/Schemes			(Interest Bearging)		
Institute	I	4,289,090.00	SBI 10125472413	293,010.94	278,823.94
Units	I	I	SBI-MNIT SB-81946	10,838,759.58	12,851,510.09
R&C	92,149,456.00	174,708,063.96	YES BANK SB-355	6,002,183.12	90,314,092.29
VI. Receipts against sponsored Followshine and Scholowshine	1	I	SBI-Corpus Fund SB- 26164	436,061.00	231,715.00
VII. Income on Investments from			SBI-Staff Development	290,708.00	154,477.00
a) Earmarked/Endowment	105 266 341 60	05 757 271 18	515-0/520		
funds	C0:1+C'007'C01	00.+0+,+0+,10	01110		
<b>b</b> ) Other investments <b>VIII. Interest received on</b>	I	I	Consultancy Guest House	101,308,317.09 1,074,318.00	5,223,451.93 $6,063,643.00$
a1) Bank Deposit (Institute)	14,306,190.91	29,475,221.82	Research	63,806,135.93	67,087,801.43
a2) Bank Deposit (Units)	8,351,751.93	10,382,854.80	TEQIP	7,312,853.32	5,902,604.32
<b>b)</b> Loans and Advances	I	I	Impact Computer SSS Stream	I	69,381.00
c) Saving Bank Accounts	3,846,748.64	4,096,949.17	CBERD	9,580.86	11,381,999.08
IX. Investments encashed	I	I	Impact Electronic SSS Stream	I	30,501.48
X. Term Deposits with Scheduled	1	I	UK India	333,606.35	320,555.35
Dallks cilcasticu Units	54,302,274.42	I	ME Part Time	266,003.00	250,889.00
XI. Other income (including Prior Period Income)	I	1	CMSIC	11,708.68	11,249.68
XII. Deposits and Advances a) Fund received from R&C	,	T			
i) to Corpus fund	16,234,899.01	11,812,333.44			ñ

												43 4,297,736,567.57
												3,275,224,360.43
												Total
4,094,033.22	4,155,637.22 -	- 4,375.00 206,009.24		1 1	1 1	409,933,983.46	53,706,026.25 -	ſ	1,326,188,964.80 1,026,434.00	T	29,725,250.71	6,806,243.75 4,297,736,567.57
5,343,244.00	5,049,404.00 - -			3,900,000.00 -		142,284,659.29	54,568,543.92 90,382.15	I	374,635,743.48 614,600.00		62,199,625.52	6,914,773.00 <b>3,275,224,360.43</b>
ii) to Staff Development Fund	<ul> <li>iii) to R&amp;D Fund(General)</li> <li>iv) to R&amp;D Fund(ELE.</li> <li>ENGG DEPT.)</li> <li>v) to R&amp;D</li> <li>Fund(MET.ENGG DEPT.)</li> </ul>	<ul> <li>vi) to R&amp;D Fund(CHEMICAL ENGG DEPT)</li> <li>vii) to R&amp;D Fund(CIVIL)</li> <li>viii) to R&amp;D Fund(COMPUTER ENGG.)</li> </ul>	x) to R&D Fund(MECHANICAL ENGG.) xi) to R&D Fund(STRUCT.)	<ul><li>b) Earmarked funds</li><li>c) Units</li></ul>	<ul> <li>d) Receipt of secured Loans</li> <li>e) Receipt of unsecured Loans</li> </ul>	I) Other Liabulities and Provisions	<ul> <li>B) Outer Liabutities and Provisions (units)</li> <li>h) Provident/Endowment Funds Investments</li> </ul>	i) Investment Others	Advances k) Current assets, loans and	XIII. Miscellaneous Receipts including Statutory Descints	XIV. Any Other Receipts a) Other Income	b) Other Income (Units) Total



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ALL-IN Director



Dominulance	<b>Opening as on</b>	Grant	Incomo	Utiliz	Utilization	Closing as on
r at ticutars	01.04.2016	Received		Other	Capital	31.03.2017
R AND D FUND ( ELECTRICAL ENGG DEPARTMENT )	38,583.75		I			38,583.75
R AND D FUND ( MET.ENGG DEPARTMENT)	232,710.41	-	I	I		232,710.41
R AND D FUND (CHEMICAL ENGG DEPARTMENT )	2,500.00	-	ı	I		2,500.00
R AND D FUND (CIVIL)	6,501,472.70	-	I		•	6,501,472.70
R AND D FUND (COMPUTER ENGG.)	499,750.24	I	ı	159,929.00	I	339,821.24
R AND D FUND (ECE)	195,959.00		-	I	I	195,959.00
R AND D FUND (GENERAL)	8,681,333.32	1	5,272,544.00	60,061.00	,	13,893,816.32
R AND D FUND (MECHANICAL ENGG.)	54,822.00	1	1	ı	,	54,822.00
R AND D FUND (STRUCT.)	6,135,954.29	I		I	1	6,135,954.29
Total	22,343,085.71		5,272,544.00	219,990.00		27,395,639.71



### ERP ANNEXURE (Schedule - 2 - Research Development Fund)

SCHEDULE-03.05 STUDENT FUND ENDOWMENT FUND / EARMARKED FUND

Doutford	<b>Opening as on</b>	Grant	[m	Utilization	n	<b>Transfer</b> to	Closing as on
rar uculars	01.04.2016	Received		Other	Capital	Corpusfund	31.03.2017
m	11,050,350.00	-	3,178,846.00	1,132,287.00	I	-	13,096,909.00
BOOK BANK	7,903,390.08		I	-	I	-	7,903,390.08
BOOK BANK SC/ST	3,850.00	-	I	1	1	-	3,850.00
COMPUTER AND INTERNET FEE	65,273,495.00	•	14,299,600.00	1	I	-	79,573,095.00
DEVELOPMENT FEE	48,199,500.50	-	32,117,500.00	1	-	-	80,317,000.50
EDUCATIONAL TOUR	4,156,870.00	•	I	•	-	-	4,156,870.00
EXAMINATION FUND	31,482,705.24	-	7,012,592.64	3,561,905.54	-	-	34,933,392.34
FINAL DEGREE CERTIFICATE FEES	1,364,000.00	•	1,560,200.00	1	-	-	2,924,200.00
IDENTITY CARD	1,554,556.56	-	164,300.00	78,118.00	-	-	1,640,738.56
INDUSTRIAL TRAINING AND	38,588,076.00	-	11,130,301.00	1,546,792.00	-	-	48,171,585.00
INTEREST (STUDENT FUND)	166,634,645.21		2,746,071.10	1	I	ı	169,380,716.31
LIBRARY FEE	35,418,469.00	•	11,531,400.00	30,065.00	-	-	46,919,804.00
SPORTS AND CREATIVE ART	28,217,494.22	-	15,481,431.00	9,543,714.00	-	-	34,155,211.22
SPAFF WALFARE FUND	5,375,821.44	-	3,154,341.96	5,762,789.00	I	-	2,767,374.40
STUDENT WALFARE FEE	18, 180, 786.00		6,442,900.00	110,451.00	·		24,513,235.00
STUDENTS INSURANCE	325,703.00	I	1,758,000.00	1,718,800.00	ı	ı	364,903.00
TRANSCRIP FEE	398,563.00	ı	188,850.00	93,240.00	I	ı	494,173.00
Total	464,128,275.25	ı	110,766,333.70	23,578,161.54	I	1	551,316,447.41







Particulars	Opening as on	Grant	Income	Utilization	uc	Transfer to Senarate	Closing as on
	01.04.2016	Received		Other	Capital		31.03.2017
CENTER SECTOR SCHOLARSHIP SCHEME FOR SC STUDENTS	-	-	1,995,640.00	1,603,080.00	ı	I	392,560.00
CENTER SECTOR SCHOLARSHIP SCHEME FOR ST STUDENTS	-	-	1		'	-	I
GRANT IN AID IIIT PLAN	-3,135,216.00		3,773,631.00	580,000.00	ı	-	58,415.00
INTEREST ON FDR OF DR. S. K. GUPTA GOLD MEDAL AWARD	-		11,598.81			-	11,598.81
INTEREST ON FDR OF RAJ SARLA BHARGAV	-	-	72,634.57	12,000.00	'	-	60,634.57
INTEREST ON FDR OF RAM AND SHANTI BHARGAV	-	-	154,355.91	4,331.00		-	150,024.91
INTEREST ON FDR OF SWAMI SIVANANDA (SCHOLARSHIP)	76,830.00		148,950.00	106,500.00	ı	-	119,280.00
NON RECURICLE GRANT VEHICLE	45,507.00	-	ı		'	-	45,507.00
NON RECURRING GRANT FOR DEV. OF SITE GOVT OF RAJ	688,026.61	-	ı	ı	ı	-	688,026.61
NON RECURRING GRANT VEHICLE GOI	132,506.00	-	ı	I	·	-	132,506.00
PAYABLE TO DR. S. K. GUPTA GOLD MEDAL AWARD	I	-	183,240.79	4,331.00	ı		178,909.79
PAYABLE TO RAJ SARLA BHARGAV	I	-	100,000.00	I	ı		100,000.00
PAYABLE TO RAM AND SHANTI BHARGAV	I	-	100,000.00	I	ı		100,000.00
PAYABLE TO SWAMI SIVANANDA (SCHOLARSHIP)	1,200,000.00		I	I	ı		1,200,000.00
UNSPENT BALANCE FOR PG CORUSE	560,000.00		I	I	ı		560,000.00
Total	-432,346.39	-	6,540,051.08	2,310,242.00	•	I	3,797,462.69



	- Institute Fund)
<b>ERPANNEXURE</b>	(Schedule - 3A6(b) - Projects Grant -

	Onening as on	Crant		Utilization	ation	Transfer to	Clasing as an
Particulars	01.04.2016	Received	Income	Other	Capital	R&C/CBERD Fund	31.03.2017
PROJECTS GRANT (INSTITUTE FUND)							
DESIGN AND DEVEL OF LOW COST ONE EARTH PASS MEDIA	ı	I		•	·	I	·
DESIGN AND DEVELOPMENT OF LOW COST SOLAR REFORIGERATION SYSTEM FOR RURAL AREA	·	·	·	•	·	·	·
EXPERIMENTAL AND ANALYTICAL STUDIES FOR SHORT	·	·	1	•	·	I	·
IAMR	352,284.00	I	'	ľ	·	I	352,284.00
INVESTIGATION OF HEAT TRANSFER BOILING WATER			·	ľ			
LAB ENHANCEMENT UNDER NPEEE	'	·	1	•	ı	I	
MNRE CHAIR GRANT				ľ		1	
MNRE REC		·	·	•	·	I	·
PROJECT GRANT	467,000.00	I	I	ľ		I	467,000.00
PROJECT ISEA				ľ			
STEEL DEVELOPMENT FUND	649,798.00	3,900,000.00	16,838.00	4,501,091.00	,	1	65,545.00
STRATEGICALLY DEV. OF MATALSILYLENE COMPLEX			·	ľ			
TOPTEC PROJECT FLEXIBLE				ľ			
VIRTUAL CLASSROOM							
Total	1,469,082.00	3,900,000.00	16,838.00	4,501,091.00	-	'	884,829.00



ERP ANNEXURE (Schedule - 3A6(b) - Travel, Seminar & Other Grant)

329,510.00 50,270.00 92,000.00 87,000.00 3,922.00 472.00 167,000.00 465,084.00 101,887.00 20,589.00 50,000.00 112,000.00 1,479,734.00 Closing as on 31.03.2017 **Transfer to** Funding Agency Capital Utilization 31.40 54,974.40 54,943.00 Other 54,943.00 54,943.00 Income Received Grant 31.40 167,000.0050,270.00 329,510.00 465,084.00 87,000.00 101,887.00 50,000.00 112,000.00 472.00 3,922.00 20,589.00 92,000.00 1,479,765.40 Opening as on 01.04.2016 TOTAL STAFF DEVELOPMENT PROGRAMME ( DR ROHIT GOYAL) WATER QUALITY MANAGEMENT NABL REQUIREMENT **(DENTICAL PROBLEM ON MACHINE AND MECHANISM** STAFF DEVELOPMENT PROGRAMME ( DR R P YADAV ) REACT ADVANCE IN SIGNAL PRECAST COMMUNITY STAFF DEVELOPMENT PROGRAMME ( DR K C JAIN ) DEVELOPMENT OF ALUMINIUM SILICON ALLOYES **FRAVEL GRANT TO DR. SANDEEP SANCHETI** M/S RAJASTHAN RENEWELS ENERGY CORP. **FRAVEL GRANT TO DR MANISH VASHISTHA** WATER QUALITY MANAGEMENT NON NABL NDSU MNIT TEACHING COLLABRATION **FRAVEL GRANT TO DR. VIJAY JANYANI** SHORT TERM COURSE POWER SYSTEM *IRAVEL SEMINAR AND OTHER GRANTS* ECBC MATER TRAINIG PROGRAMME **ION BEAM IN MATERIAL RESEARCH** WATER DESALINATION TREATMENT Particulars **TRAVEL GRANT TO DR T C GUPTA** RUIDP





ERP ANNEXURE (Schedule - 3A6(b) - Student Fund)

	Onening as an	Grant		Utilization	tion	Trancfor to	Clocing as on
Particulars	01.04.2016	Received	Income	Other	Capital	Funding Agency	31.03.2017
STUDENT FUND							
CSIR FELLOWSHIP DR ARTI KASHYAP	3,523.90	I	·	·	I	I	3,523.90
CSIR JRF KRITI BHANDARI	69,038.00	I	ľ	·	I	I	69,038.00
DRDO STUDENT ROBOT COMPETITIONS	204.00	I	ľ	·	I	I	204.00
DST STUDENT PROJECT (SHRI PAWAN KALLA)	7,000.00	I	ľ	·	I	I	7,000.00
HYDRO 2008	73,214.00	I	ľ	·	I	I	73,214.00
INSPIRED FELLOWSHIP ASSURED OPPORTUNITY	96,008.00	I	ľ	11,528.00	I	I	84,480.00
ISRO MAP PROJECT	62,842.00	I	ľ	·	I	I	62,842.00
JRF RUCHI MAHESHWARI	212,000.00	I	I	I	I	I	212,000.00
MNES FELLOWSHIP ( VIKAS SADAN)	17,343.00	I	ľ	I	I	I	17,343.00
UGC JRF MS NEHA AGARWAL	27,484.00	I	ľ	·	I	I	27,484.00
UGC SCHOLERSHIP RITU SHARMA	15,000.00	I	-	-	1	1	15,000.00
TOTAL	583,656.90	1	•	11,528.00		1	572,128.90





1 1 1.11.11.20				(CINNET III COL
T is hilt time	Amount	Amount		Amount
LIMUITIES	$As \ on$	As on	Assets	As on
	31.03.2017	31.03.2016		31.03.2017
NPS Tier-I Account				
0.45 Opening Balance	0.67		Subscription and contribution due	
183.44 Add : Subscriptions in the year	218.82	16.18	16.18 for March 2017	8.09
0.00 Add : Interest Credited	0.00			
-183.21 Less : Transferred to NSDL	-218.82		Investment	
0.00 Less : Transferred to Corpus Fund	-0.45			
16.18 Add : Subscription for March 2017	8.09			
0.00 Excess of Income over Expenditure	0.00	0.68	0.68 Balance at Institute Bank	0.22
Total	8.31	16.86	Total	8.31

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ALL . IA Director

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NPS TIER - I ACCOUNT INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2017

(S)				2	0.00	0.00		8
(Rs. in Lakhs)	Amount	31.03.2017		0.1	0.0	0.0		0.00
	Income		0.00 Interest Borned on Investment		0.00 Less : Interest Accrued March 2016	0.00 Interest Accrued but not due		Total
	Amount	31.03.2016	00.0	00.0	0.00	0.00		0.00
	Amount	31.03.2016	000	00.0	0.00		0.00	0.00
	Expenditure		0.00 Intervet analited to enheurihone Accounte	ביווהטאר בנשמיושבמוב טו השוושרו ובובושווו	0.00 Bank Charges	D	0.00 Excess of Income over Expenditure	Total
	Amount	31.03.2016		00.0	0.00		0.00	0.00

Reputy Register



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T HearPrevious YearPrevious Year $0.67$ $0.45$ Investment $0.00$ $0.00$ $0.67$ $0.45$ Investment $0.00$ $0.00$ $109.41$ $91.72$ Transfer to NSDL $218.82$ $183.21$ $109.41$ $91.72$ Transfer to Corpus Fund $0.45$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.022$ $0.68$ $0.00$ $0.00$ $0.00$ $0.00$ $0.022$ $0.68$ $0.00$ $0.00$ $0.00$ $0.00$ $0.22$ $0.68$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.22$ $0.45$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $183.89$ $Total$ $219.49$	-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Current Year
Transfer to NSDL $218.82$ $91.72$ Transfer to Corpus Fund $0.45$ $91.72$ Transfer to Corpus Fund $0.45$ $0.00$ $0.00$ $0.22$ $0.00$ $0.00$ $0.22$ $0.00$ $0.00$ $0.22$ $0.00$ $0.00$ $0.22$ $0.00$ $0.00$ $0.31.03.2017$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$	
$\begin{array}{c c} 91.72 \\ 91.72 \\ 01.72 \\ 01.72 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 183.89 \end{array} \begin{array}{c c} 0.45 \\ 0.22 \\ 0.22 \\ 0.24 \\ 0.22 \\ 0$	
0.00       0.00       0.00       0.22         0.00       0.00       0.00       0.00         0.00       133.89       Total       219.49	$\neg$
0.00 0.00 183.89 Total 219.49	
0.00 Total 219.49	
183.89 Total 219.49	
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## GENERAL PROVIDENT FUND ACCOUNT (GPF TRUST) BALANCE SHEET AS AT MARCH 31, 2017

Amount	Liabilities		Amount	Amount	Assets	Amount
31.03.2016			31.03.2017	31.03.2016		31.03.2017
219180661.61	219180661.61 Opening Balance		244088731.61	188602774.34	188602774.34 Investment (FDRs)	203711419.50
1630600.00	1630600.00 Less : Subscription for March 2016		1717000.00	7516229.72	7516229.72 Interest accrued on FDR	7340080.65
				1717000.00	1717000.00 Subscription due for March, 2017	1836100.00
21192219.00	21192219.00 Add : Subscriptions in the year		22074100.00	28325468.00	28325468.00 GPF Loan to Employee	28778948.00
1717000.00	1717000.00 Add : Subscription for March 2017		1836100.00	18397966.00	18397966.00 ICICI Flexi Deposit	24185000.00
15498238.00	15498238.00 Add : Interest Credited		15928420.00	3414135.96	3414135.96 ICICI Bank Balance	5568843.96
11868787.00	11868787.00 Less : Advance / withdrawal		15309548.00	57000.00	57000.00 Own Share Receivable	0.00
244088731.61	244088731.61 Closing Balance		266900803.61			
3941842.41	3941842.41 Interest Reserve	3941842.41				
	Add : Surplus during the year	577746.09	4519588.50			
248030574.02	Total		271420392.11	248030574.02	Total	271420392.11

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# INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2017 GENERAL PROVIDENT FUND ACCOUNT (GPF TRUST)

Amount	Expenditure	V	Amount	Amount	Income	Amount
31.03.2016		31	31.03.2017	31.03.2016		31.03.2017
	Interest Credited to :			9368146.59	9368146.59 Interest earned on Investment	9166085.44
15498238.00	15498238.00 GPF Account		15928420.00	7516229.72	7516229.72 Add : Interest accrued on 03.2015	7340080.65
	CPF Account					
	University Contribution (CPF)					
	NPS Tier-II Account					
1386138.31	1386138.31 Excess of Income over Expenditure		577746.09			
16884376.31	Total		16506166.09	16884376.31	Total	16506166.09

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NLL.IA Director



GENERAL PROVIDENT FUND ACCOUNT (GPF TRUST) RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2016-17

J16       GPF Advance/Permanen         3414135.96       GPF Final Payment         3414135.96       4818618.96         18397966.00       6542966.00       FDR in Yes Bank         196119004.06       180257722.75       GPF Loan to Emplo         22131100.00       21125215.00       Closing Balance         22131100.00       21125215.00       Closing Balance         16506166.09       16884376.31       ICICI Bank         eposited       998990.00       587800.00         14395600.00       14070984.00       14070984.00	Receipts	Current Year	Current Year Previous Year	Payments	Current Year	Previous Year
it 3414135.96 4818618.96 GPF Final Payment 3414135.96 4818618.96 FDR in Yes Bank 18397966.00 6542966.00 FDR in Yes Bank 196119004.06 180257722.75 GPF Loan to Emplo 22131100.00 21125215.00 Closing Balance ICICI Bank 16506166.09 1884376.31 ICICI Flexi Deposit ish Deposited 998990.00 587800.00 lary 14395600.00 14070984.00	Opening Balance as on 01.04.2016			GPF Advance/Permanent withdrawal	4930098.00	4949246.00
it 3414135.96 4818618.96 it 18397966.00 6542966.00 FDR in Yes Bank 196119004.06 180257722.75 GPF Loan to Emplo 22131100.00 21125215.00 Closing Balance ICICI Bank 16506166.09 16884376.31 ICICI Flexi Deposit ash Deposited 998990.00 587800.00 lary 14395600.00 14070984.00 T				<b>GPF Final Payment</b>	9382800.00	3968541.00
it 18397966.00 6542966.00 FDR in Yes Bank 196119004.06 180257722.75 GPF Loan to Emplo 22131100.00 21125215.00 Closing Balance ICICI Bank 16506166.09 16884376.31 ICICI Flexi Deposit ash Deposited 998990.00 587800.00 lary 14395600.00 14070984.00 T.1.1 2120205231 24100 T.1.1 24105252300	ICICI Bank	3414135.96	4818618.96			
196119004.06     180257722.75     GPF Loan to Emplo       196119004.06     180257722.75     GPF Loan to Emplo       22131100.00     21125215.00     Closing Balance       16506166.09     16884376.31     ICICI Bank       16506166.09     16884376.31     ICICI Flexi Deposit       ash Deposited     998990.00     587800.00       lary     14395600.00     14070984.00	ICICI Flexi Deposit	18397966.00	6542966.00	FDR in Yes Bank	211051500.15	196119004.06
ash Deposited     22131100.00     21125215.00     Closing Balance       16506166.09     16884376.31     ICICI Bank       ash Deposited     998990.00     587800.00       lary     14395600.00     14070984.00	FDR in Yes Bank	196119004.06	180257722.75	GPF Loan to Employee	16844720.00	17438790.00
ash Deposited 998990.00 587800.00 14070984.00 14070984.00	GPF Subscription	22131100.00	21125215.00	Closing Balance		
Deposited         998990.00         587800.00           14395600.00         14070984.00	Interest Received	16506166.09	16884376.31	ICICI Flexi Deposit	24185000.00	04.05.05 18397966.00
	Loan Recovery Cash Deposited	998990.00 14395600 00	587800.00 14070984 00			
	rout weekery cauty					
	Total	271962962.11	244287683.02	Total	271962962.11	244287683.02

JLL . IT Director

Registrar

Deputy Register



### महामना पं मदन मोहन मालवीय 1861-1946

WAR AND



मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर Malaviya National Institute of Technology Jaipur

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