INFORMATION BROCHURE

DOCTOR OF PHILOSOPHY– Ph.D.

EVEN SEMESTER (2022-2023)

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
JLN MARG, MALVIYA NAGAR, JAIPUR–302017 (RAJASTHAN)

www.mnit.ac.in

FOR FURTHER INFORMATION, PLEASE CONTACT:

Office of Dean Academic
Malaviya National Institute of Technology
J.L.N. Marg, Jaipur (Raj.) – 302017.
E-mail: admissions@mnit.ac.in
        webmaster@mnit.ac.in (for technical issues)

Telephone no. 0141- 2715038 (3.00 PM to 5.00 PM)
Web Site: www.mnit.ac.in

APPLICATION HAS TO BE FILLED ONLINE

(Link available at *www.mnit.ac.in*).

➢ Start Date of Online Application :- 04/11/2022
➢ Last Date of submission of Online Application form :- 24/11/2022 (till 5.00 PM)

Provisional list of shortlisted/eligible candidates for written test/interview will be displayed on Institute website by 06/12/2022.

➢ Dates of written test & Interview of the :- 15/12/2022 to 16/12/2022
shortlisted candidates

➢ Final Result :- 23/12/2022

NOTE :-

➢ *The Ph.D. entrance written test is exempted for the students who have cleared the National Level Examination viz; UGC NET JRF/CSIR JRF/DST Inspire (with scholarship) and can sustain their Ph.D. from external scholarship/assistantship. However, such candidates will be required to appear for the interview if shortlisted.*

➢ *No separate interview letter will be issued, the mode of written test and interview will be offline and the detailed schedule will be displayed on the institute website, at least one week before the examination.*

➢ *For more information please refer to Rules and Regulations given on institute website* ***www.mnit.ac.in.***

ADMISSION CATEGORIES

FULL TIME
  i. Full Time with Institute Assistantship
  ii. Full Time with own scholarship (NET JRF etc..)
  iii. Full Time Sponsored

PART TIME
  i. Part Time (candidate working within 70 km of Jaipur)
  ii. Institute Project Staff
  iii. Institute Faculty
  iv. Institute Staff
  v. Executive/Professional

Off Campus
  i. Off Campus (Off Campus (beyond 70 km from Jaipur)

1.INTRODUCTION

Malaviya National Institute of Technology Jaipur is one of the 31 National Institutes of Technology in India. These Institutes have been created as centers of excellence for higher training, research and development in science, engineering and technology. Established as a College of Engineering College in 1963, the Institute was declared as National Institute of Technology in the year 2002. It was then accorded the status of deemed university with powers to decide its own academic policy, to conduct its own examinations and to award its own degrees.

The Institute offers undergraduate, postgraduate and research programmes through its departments. The Institute admits on an average about 900 students for undergraduate (B.Tech./B.Arch.) programmes and about 750 students for the postgraduate and research (M. Tech./M. Planning/M.Sc./MBA/Ph.D.).

The institute offers four year undergraduate courses of study leading to the Bachelor of Technology degree in Chemical, Civil, Computer, Electrical, Electronics & Communication, Mechanical and Metallurgical & Materials Engineering and five year Bachelor of Architecture.

The institute offers full-time/part-time postgraduate programmes leading to the degree of Master of Technology in Chemical Engineering, Computer Engineering, Design Engineering, Disaster Assessment and Mitigation, Electronics & Communication Engineering, Thermal Engineering, Environmental Engineering, Industrial Engineering, Metallurgical & Materials Engineering, Power Systems, Power Systems Management, Production Engineering, Renewable Energy, Steel Technology, Structural Engineering, Transportation Engineering, VLSI Design, Embedded Systems, Earthquake Engineering, Power Electronics and Drives, Wireless and Optical Communication, Water Resources Engineering and Master of Planning (Urban Planning).

The Institute also offers full time MBA programmes in the Department of Management Studies and M.Sc. in Sciences (Physics, Chemistry and Mathematics).

The institute offers Full-time/Part-time Ph.D. programmes in Architecture & Planning, Civil, Chemical, Computer, Electrical, Electronics & Communication, Mechanical, Metallurgical & Materials, Energy & Environment, Sciences (Physics, Chemistry, Mathematics), Management and Humanities & Social Sciences ,National Centre for Disaster Mitigation & Management and Materials Research Centre.

2. THE OBJECTIVE

The objectives of the postgraduate programmes - MBA, M.Plan., M. Tech./M. Plan. and Ph.D. at the Malaviya National Institute of Technology, Jaipur, India (MNIT) are as follows:

- To cultivate high standard of performance in teaching & research,

- To develop the scientific, managerial and engineering manpower of the highest quality to cater to the needs of the Industry, R&D organizations and academia,

- To provide opportunity to students to do research in cutting edge areas,

- To be a role model and leader of educational Institutions in the country,

- To provide a broad grasp of the fundamental principles of the sciences and scientific, managerial and technological methods through its curriculum,

- To provide a deep understanding of the areas of specialization,

- To provide an innovative ability to solve new and open problems,

- To provide a capacity to learn continually and interact with multidisciplinary groups,

- To develop the students with a capability for:

  - Free and objective enquiry

  - Courage and integrity

  - Awareness and sensitivity to the needs and aspirations of society.

  - Doing independent research in their chosen areas

With this end in view, the postgraduate programmes are designed to include courses of study, seminars, project and thesis submission through which a student may develop his concepts and intellectual skills.

The procedures and requirements stated in the "Rules and Regulation manual for PG Programmes" embody the philosophy of the postgraduate education & research and ensure the highest standards of performance in teaching and research at the Institute. Within this general framework, subject to the approval of the Senate Post-Graduate Board (SPGB)/Senate, the various departments/centres may impose such additional requirements as will serve their particular academic goals. The Rules and Procedures given in the manual are adhered to and implemented without any change and with all fairness. While considering an issue, if the manual does not specifically mention something, the same shall be forwarded by DPGC to SPGB/Senate for its consideration.

Location: MNIT Jaipur is situated on Jawahar Lal Nehru Marg in South of Jaipur. This Institute is about 10 km. away from the Jaipur Railway Station/Main Bus Stand and 5 km from the Airport. Frequent City transports are available to this Institute.

Campus: MNIT Jaipur is a residential Institution and provides residential facilities to the students as well as staff. The Institute campus area extends to 325 acres with many interesting topographical features, imaginatively laid out with picturesque landscape, numerous buildings and wide roads, the campus presents a spectacle of harmony in architecture and natural beauty.

The Central Library, Central Computer Centre and Design Centre of the institute are the backbone of the institution and are accessible to the students and staff of the institute.

3. CREDIT SYSTEM   5

Education at the Institute is organized around the credit system of study. The prominent features of the credit system are process of continuous evaluation of a student, 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 number of earned credits should also be obtained in order to qualify for the degree.

The minimum academic requirements for the various degrees including minimum & maximum credits to be registered in a particular semester are indicated in the "Rules and Regulation manual for PG Programmes", which is available on Institute website.

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.

4. ADMISSIONS

Academic Session

The academic session of the PG Programmes is divided into two semesters (odd and even). The odd semester will normally commence around July every year, and the even semester around January every year.

The admissions to Ph.D. programme is made in both the regular semesters, however, admissions to M.Tech./M.Sc./M.Plan are made in the semester commencing in July.

4.1 ELIGIBILITY FOR ADMISSION

i.   The eligibility conditions given below are the absolute minimum. Departments/Centres may prescribe any requirements over and above for short listing. All eligibility requirements **must be met by the date as prescribed in PG Rules & Regulations 2.4 (6 & 7) as follows:-**

    a.   The selected candidate, who has completed all the examinations including project/thesis examination and the viva voce before the date of registration but is unable to produce the certificate in proof of having passed and secured the minimum specified qualifying marks, may be considered for provisional admission. However, if admitted provisionally, they will be required to produce the evidence of their having passed (or at least appeared in) the qualifying degree examination by the last date of registration, failing which the admission may be cancelled.

    b.   The provisions in para 6 above shall not be applicable in the case of M.Tech. /M.Plan./MBA student of this institute, who has been provisionally selected for admission to a Ph.D. programme. Such students will be admitted to the Ph.D. Programme subject to the condition that they must have successfully completed all the prescribed requirements including acceptance of their Thesis/Project in a particular semester by the last registration date as specified in the academic calendar.

ii.   The "specified minimum" CGPA/marks implies a minimum of 6.5 on the 10 point scale (60% marks, only where CGPA is not awarded) for Ph.D. with a relaxation for SC/ST implying minimum of 6.0 on the 10 point scale (55% marks, only where CGPA is not awarded) in qualifying degree (refer Table 1).

Visvesvaraya Ph.D. Scheme for Electronics and IT : Phase II of MietY

Departmental screening of candidates under "Visvesvaraya Ph.D. Scheme for Electronics and IT: Phase-II of MietY", Govt. of India (details of fellowship given in Section 8 (viii)) would additionally consist of following components- (a) Throughout excellent academic credentials (CGPA more than 6.5, class X through postgraduate) and (b) should be in the top 25% of the qualified candidates after screening i.e. in the written test conducted (offline) and/or other criterion applied by Department. Additionally, candidates having publications in reputed Journal/ conference would be given due consideration in selection process.

iii.   **Reservation policy as prescribed by Government of India/Ministry of Education from time to time shall be applicable.**

4.2 SELECTION PROCESS

Selection process will comprise of two steps (i) Written test (ii) Interview of shortlisted candidates. The written test will comprise of two sections: Section A will test the research aptitude of the candidate and Section B, which will test the subject knowledge of the candidate. A candidate is required to score a minimum of 35% separately in both Part A and Part B and together 50% (with 30% weightage of Part-A and 70% weightage of Part-B) in order to qualify for the interview round.

Format/sample questions for Part A and Part B, and sample papers will be made available on the Institute website in due course.

4. 3 DOCTOR OF PHILOSOPHY

4.3.1 Ph.D. IN ENGINEERING, ARCHITECTURE & PLANNING DISCIPLINE

The applicant must have a Master's degree in Engineering/Technology/Architecture/Planning with CGPA not below 6.5 on a 10-point scale or 60% marks (only where CGPA is not awarded). In exceptional cases brilliant candidates (graduated from CFTI and other institutions whose NIRF ranking is up to 100) with CGPA of more than 8 (75% marks) in Bachelors degree in Engineering/Architecture/Planning may be recommended by DPGC to SPGB for admission in Ph.D. program. Such candidates having, sufficient experience in the relevant area and publications in refereed conferences/journals as notified by DPGC, may also be considered.

4.3.2 Ph.D. IN HUMANITIES & SOCIAL SCIENCES

The applicant must have the master degree with CGPA not below 6.5 on a 10-point scale or 60% Marks (only where CGPA is not awarded).

4.3.3 Ph.D. IN MANAGEMENT
The applicant must have a two-year post-graduate degree in management /commerce/ economics/ engineering / technology with CGPA not below 6.5 on a ten-point scale or 60% marks (only where CGPA is not awarded)

4.3.4 Ph.D. IN SCIENCES (PHYSICS/CHEMISTRY/MATHEMATICS)
The applicant must have a Master's Degree in the relevant Science subject with CGPA not below 6.5 on a 10-point scale or 60% marks (only where CGPA is not awarded).

S.No.	Category	Full Time/ Part Time	Exam	Interview	Experience	NOC/Consent	Institute Scholarship	GATE/UGC-NET/ National level exam
1.	Full Time with scholarship		✓	✓	x	X	✓	✓
2.	Full Time with own scholarship	Full Time	x	✓	x	X	x	✓
3.	Full Time Sponsored		✓	✓	✓	✓	x	x
4.	Off Campus (beyond 70 km from Jaipur) Sponsored (PT)	Off Campus	✓	✓	✓	✓	x	x
5.	Part Time		✓	✓	✓	✓	x	x
6.	Project Staff (PT)		✓	✓	x	✓	x	x
7.	Faculty (PT)	Part Time	✓	✓	✓	✓	x	x
8.	Staff (PT)		✓	✓	✓	✓	x	x
9.	Executive/Professional*		x	✓	✓	✓	x	x

*The eligibility requirements for the Ph.D Admission Category: Executive/Professional.

(1) Only candidates working in following organizations shall be considered:-
   a. Government organizations/laboratories,
   b. PSUs, and
   c. Reputed companies i.e. Companies having annual turnover of Rs. 100 Crores or more.
(2) Candidate should have following educational qualification and experience.
   a. Post Graduate Degree with at least 12 years professional experience.
   b. B.Tech. Degree with at least 15 years professional experience.
(3) Candidates should have demonstrated research potential through research papers in reputed journals/conferences or patents or technology transfer/deployed.
(4) The course credit requirement would be as per the current practice for Part-Time candidates.
(5) The minimum residency requirements for such candidates will be one semester.
(6) All other conditions shall be as per the PG rules and regulations of MNIT Jaipur.

The admission procedure for the Ph.D Admission Category: Executive/Professional

(1) The candidate will be required to make a research proposal presentation to the DFB. Thereafter, the Chairman of the Departmental Selection Committee (DSC) will send the DFB's recommendation to the Office of Dean Academic (ODA).
(2) The following committee will conduct the interview of the candidate
   a. Dean (Academic)   Chairperson
   b. Dean (Research and Consultancy)   Member
   c. Head of the Department   Member
(3) The recommendation of the above committee will be approved by the Chairman, Senate for the selection of the candidate.

6. ADMISSION OF SPONSORED CANDIDATES

i. A candidate who is sponsored for either Full time (FT) or Part time (PT) studies at MNIT by his/her employer and who meets the additional conditions specified below may be admitted through the Dept. Selection Committee appointed.

ii. A sponsored candidate full time or part time must have total full time work experience of more than two years post qualifying degree, and in the case of full time sponsored candidate, he/she must have been in service of the sponsoring organization for at least one year at the time of admission. The sponsoring organization must specifically undertake to relieve him/her to pursue the programme for its full duration. The sponsored candidates are required to submit No Objection Certificate (NOC) from their employer/organization stating that:

    a. His/Her official duties permit him/her to devote sufficient time for M.Tech./M.Plan./Research. Candidate should give undertaking that he would fulfill the attendance requirements of all the courses undertaken by him for fulfillment of the course pursued.

    b. She/he will have to reside in the institute for a period of not less than one year during his/her registration for the degree. However, this condition can be relaxed for a candidate working in or around Jaipur (within a radius of 70 KM).

        1. M.Tech./M.Plan. Residency requirement of 1 year for doing complete course work

        2. Ph.D. Residency requirement until completing candidacy requirement

7. ADMISSION TO OFF CAMPUS PROGRAMME FOR Ph.D.

i. A candidate residing out 70 km radius of Jaipur and working in an R&D establishment or in other institution / organization, which is equipped with the necessary infrastructure for carrying out research and library facilities, may be considered, for admission in Off Campus category for Ph.D. programmes in Engineering, Architecture & Planning, Management, and Sciences. Such a candidate must be sponsored by his/her employer and must have been in employment with the sponsoring organization for at least 2 years at the last date of application. The Institutions eligible for Off Campus must be recommended by DPGC and approved by SPGB.

The employer must expressly undertake to relieve him/her to stay on the campus to enable the candidate to complete the "Course work", "Comprehensive" and "State of Art" seminar and at the end of every semester for the semester evaluation.

ii. A candidate applying for admission to the off campus registration programme must provide detailed information about the research facilities available at his/her organization and a certificate that these would be available to him/her for carrying out research. She/he should also provide the bio-data of the prospective supervisor/coordinator who would supervise/coordinate the candidate's work at his/her organization if required.

iii. On the recommendation of the DPGC, and SPGB, the Chairperson Senate may approve the admission.

iv. **However SPGB on the recommendation of DPGC may waive off minimum residence requirement to stay on campus in lieu of his earlier research work.**

8. FINANCIAL ASSISTANCE

i. The Institute may provide financial assistance to postgraduate students in the form of teaching and research assistantships (referred to as Institute Assistantship). Assistantships are awarded on a semester to semester basis for a period of up to four semesters for M.Tech./M.Plan. students and up to ten semesters for Ph.D. students. The stipend for the assistantship is paid at the approved rates as

notified by MHRD from time to time. At present a sum of Rs. 31000 + 16% HRA for first two years and Rs. 35000 + 16% HRA for next three years is being given as institute assistantship. A student is expected to devote about eight hours per week towards job(s) assigned to him/her by the department/institute. The renewal of assistantship is contingent on the student's satisfactory performance in the academic programme and in the satisfactory discharge of assistantship duties as assigned to him by the department/institute.

ii. **GATE score will be mandatory for admission to Ph.D. program (with Institute Assistantship) in Engineering and Sciences. The GATE score should have been acquired either within past three years or the candidate should have completed respective Master's degree with a valid GATE score.**

iii. **For admission to Ph.D. program with Institute Assistantship in the Departments of Management Studies, UGC/CSIR NET shall be mandatory.**

iv. **For admission to Ph.D. program with Institute Assistantship in the Humanities & Social Sciences, GATE/ UGC NET/CSIR NET shall be mandatory. The GATE score should have been acquired either within past three years or the candidate should have completed respective Master's degree with a valid GATE score.**

v. Some financial assistantships in the form of research assistantships is also available from sponsored research projects. Additional assistantships in the form of scholarships, fellowships, etc. may be available through other organizations, such as, the Council of Scientific and Industrial Research (CSIR)/ University Grant Commission (UGC) / Department of Atomic Energy (DAE)/ DST/ MHRD/ Corporate Houses etc.

vi. The candidates applying for financial assistantship are required to submit the undertaking at the time of admission in the prescribed Performa given in Annexure-X.

vii. **Visvesvaraya Ph.D. Scheme for Electronics and IT : Phase II of MietY**

In addition to institute assistantship, a total of 03 fellowships for Full-Time candidates are available, one in each of the Departments of Electronics and Communication, Computer Science and Engineering, and Electrical Engineering in the area of Electronics & IT (ESDM & IT) under "Visvesvaraya Ph.D. Scheme for Electronics and IT :Phase-II" of MietY. A candidate has to EXPLICITLY indicate, whether he/she wishes to be considered for this scheme, in addition to normal process of admissions. [Listing of areas for this session admission is attached for three departments-ECE, CSE, EE]. Once selected in this scheme, a student is entitled for following:

a) Fellowship for full time Ph.D. candidate @ Rs. 38,750/- per month (1st 2nd year) and @Rs. 43,750/- per month for 3rd, 4th and 5th year (as per MeitY project scheme).

b) Reimbursement of rent at 16% (of fellowship)

c) Grant for attending international conference (outside India) on a case to case basis

9. MINIMUM QUALIFICATION(S) FOR ADMISSION TO Ph.D. PROGRAMME

Table 1 : Minimum qualification(s)

Department	Minimum Educational Qualification
Architecture & Planning	Masters degree in Architecture/Planning/Technology in relevant discipline.
Chemical Engineering	B.Tech./M.Tech. or equivalent degree in Chemical Engineering, B. Tech./M.Tech. or equivalent degree in any branch of Engineering/Chemical Technology and interdisciplinary areas.
Chemistry	M.Sc. in Chemistry/ Medicinal Chemistry / Pharmaceutical Chemistry/ Environmental Chemistry/ Biochemistry/ Biotechnology and related disciplines with chemistry as one of the optional subject.
Civil Engineering	M.E./M.Tech. degree in relevant engineering discipline
Computer Science & Engineering	B.E./B.Tech .in CSE/IT/ECE/EE or equivalent disciplines M.E./M.Tech./M.S. in CSE/IT/ECE/EE or equivalent disciplines
Electrical Engineering	M.E./M.Tech. or equivalent degree in respective & relevant Engineering disciplines
Electronics & Communication Engineering	B. Tech. and M.Tech. Electrical/ Electronics/ Computer/ Communication/ Telecommunication/ Instrumentation/ Control/ Microelectronics or equivalent discipline consistent with research areas of department.
Humanities and Social Sciences	M.A./M.Com. or equivalent degree. Master's degree in Science may be considered for research areas consistent with the academic background and special interest.
Mathematics	M.Sc./M.A./M.Tech/MS or equivalent degree in Mathematics/statistics or in relevant discipline
Mechanical Engineering	B.Tech./M.Tech. degree or equivalent degree in Mechanical/Industrial/ Production Engg. B.Tech./M.Tech. degree/ disciplines consistent with the research areas of the department.
Metallurgical & Materials Engineering	B.E./B.Tech. degree in Metallurgical Engineering/ Materials Engineering/ Mechanical Engineering/ Materials Science and Engineering/ Metallurgical and Materials Engineering/Chemical Engineering/Ceramic Engineering/Manufacturing Engineering/ Production Engineering/ Materials Science/Forge and Foundry with M.E./M.Tech degree in Metallurgical Engineering/Materials Science/Ceramic Engineering/ Thermal Engineering/Polymer Engineering/Plastic Engineering/ Polymer Science and Engineering/Metallurgy and Materials Science/Materials Engineering/ Design/ Machine Design/Production/Foundry/ Industrial Metallurgy/ Welding Technology/ Manufacturing/ Process Metallurgy/Process Engineering/ Corrosion Engineering/ Nano Technology/Steel Technology/Mineral Processing/ Alloy Technology/ Extractive Metallurgy/ Composites/ Powder Metallurgy.

Physics	The applicant must have a Master's degree in following areas:
	M.Sc. in Physics/Applied Physics/Engineering Physics/allied areas of Physics/interdisciplinary areas in physical sciences
	M. Tech or equivalent degree in Materials Science / Solid State Physics/ Engineering Physics / Polymer Science / Nanoscience and Nanotechnology/ Energy Science /Technology/ Computational Techniques in Physics
Centre for Energy and Environment	B.Tech/B.Arch./B.E./M.Sc. and Master's degree in Engineering/Technology/Architecture in relevant areas.
National Centre for Disaster Mitigation and Management	Bachelor's degree in Civil Engineering/Architecture
	Master's degree in Structural engineering/Earthquake Engineering or any other branch of civil/architectural Engineering
Management	The applicant must have a two-year post-graduate degree or equivalent from recognized institute/University.
Materials Research Centre	The applicant must have a Master's degree in Engineering/Technology/ Science subject Other Qualifications: 1. M.Tech/ME or equivalent degree in Materials Science and Engineering, Metallurgical Engineering, Ceramics, Mechanical Engineering, Nanoscience, Polymer Technology, Electronics, Nanotechnology. 2. B Tech students graduating from an IIT with a CGPA of 8.0 or above in the above disciplines along with a valid GATE score **OR** B Tech / BE (from other reputed Institutions of National importance) with CGPA of 8.5 and above, are eligible to apply. 3. M.Sc in Materials Science/Physics/Chemistry Polymer Technology, Electronics, Nanotechnology. Or equivalent Master's degree in allied areas.

Note: In case of equivalent degree, the student is required to submit equivalence certificate w.r.t his/her qualifying degree from Association of Indian University/concerned National Council in case of Architecture/Town planning.

10. AVAILABLE RESEARCH AREAS IN VARIOUS DEPARTMENTS

Research Areas offered in various Departments for admission in Ph. D.

FULL TIME WITH INSTITUTE ASSISTANTSHIP		
Department/Centre	**Tentative Research Area of proposed Ph.D.**	**Faculty Member**
Architecture and Planning	Universal Accessibility Principles in Planning and Design	Dr. Tarush Chandra
	Eco sensitive Planning and Development	Dr. Tarush Chandra
	Materials / Practices for Sustainable Planning and Design	Dr. Tarush Chandra
	Energy Conscious Urban Planning / Design	Dr. Tarush Chandra
	Urban infrastructure and water resources.	Dr. Rina Surana

	Heritage/ urban Conservation	Dr. Rina Surana
	Urban Design Housing	Dr. Rina Surana
	Urban systems and their planning	Dr. Pooja Nigam
	Crafts and other Traditional Knowledge Systems in Built Vernacular Heritage	Dr. Pooja Nigam
	Sustainable Urban Development and Policy Planning	Dr. Pooja Nigam
	Sustainable Urban Infrastructure	Dr. Niruti Gupta
	Smart cities and urban resilience	Dr. Niruti Gupta
	Building Envelope Design for User's Comfort	Dr. Gireendra Kumar
	Urban Heat Mitigation and Strategies	Dr. Gireendra Kumar
	Building Development Regulation role on Contemporary Architecture	Dr. Gireendra Kumar
	Urban Infrastructure Planning and Management	Dr. Yash Kumar Mittal
	Planning for Disaster Resilience	Dr. Yash Kumar Mittal
	Construction Project Management	Dr. Yash Kumar Mittal
	Urban Transport Planning and Engineering	Dr. Yash Kumar Mittal
Centre for Energy and Environment	Solar Photovoltaics and its industrial application	Dr. Sunanda Sinha
	Energy Systems Planning	Dr. Rohit Bhakar
	Hydrogen Energy storage system Design and development	Dr. Kapil Pareek
	Biomass to Bioenergy	Dr. Vivekanand
	Building integrated photovoltaic system	Dr. Amartya Chowdhury
Chemical Engineering	Solvent recovery and reuse from pharmaceutical industries by distillation in microchannels.	Dr. U.K.Arun kumar
	Nanomaterial based Solar cells	Dr. Surajit Ghosh
	Greywater treatment by fabricated supported ionic Membrane	Dr. Rajeev Kumar Dohare
	Catalytic conversion of glycerol into value added chemicals	Dr. Virendra Kumar Saharan
	Resource recovery from waste through nanomaterial synthesis	Dr. Suja George
	Biomass derived nanomaterials /nanocomposite membranes for desalination	Dr. Madhu Agarwal
	Desalination using Membrane / other advanced Technology	Dr. S. P. Chaurasia
	Manufacture of glass using wastes from marble processing and common salt producing plants	Dr. S. K. Jana
	Conversion of CO_2 into value-added products: Experimental and Theoretical study	Dr. Sonal
	Application of Artificial Intelligence in the Wastewater Treatment and Monitoring	Dr. Dipaloy Datta
	Co-pyrolysis of biomass and plastic for production of value added products	Dr. Rohidas Gangaram Bhoi
	Experimental and Modelling study for treatment of water/ wastewater using hybrid AOP/ electrochemical techniques	Dr. Kailash Singh
	Hydrogen production by water splitting using electrochemical route	Dr. Neetu Kumari

	Nanocomposite membranes for industrial gas separation applications	Dr. Md. Oayes Midda
	Conversion of e-waste into advanced nanomaterials and their utilization as catalysts in sustainable energy conversion systems	Dr. Lovjeet Singh
	Molecular dynamics investigations for polymer-based novel materials development using self-assembly approach.	Dr. Hrushikesh Madhusudan Gade
	Removal of heavy metal ions from water by solvent extraction using reverse micelles.	Dr. Prabhat Pandit
	Removal of organics from water by reactive extraction.	Dr. Prabhat Pandit
	Synthesis of reactive adsorbent from waste solids for removal of emerging pollutants from Water	Dr. R. K. Vyas
	Mineralization of Industrial Effluents Through Catalytic Process.	Dr. V. Subbaramaiah
	Development of visible light-induced catalysts for wastewater treatment.	Dr. Vijayalakshmi Gosu
	Study on Agro residues utilization for energy extraction and getting value added products	Dr. Manish Vashishtha
	Nanostructured catalyst and its application for water/wastewater treatment	Dr. Shiv Om Meena
Chemistry	Spectroscopic study of atmospheric reactions on water and ice surfaces	Dr. Biman Bandyopadhyay
	Organic materials (syntheses) for Solar Cells	Dr. Abbas Raja Naziruddin
	Synthesis and applications of acid-base bifunctional nanoporous materials	Dr. Pawan Rekha
	Application of Carbon Nano-composites for the Treatment of Wastewater	Dr. Barun Jana
Civil Engineering	Air Pollution Measurement & Control	Dr. Ruchi Sharma
	Performance evaluation of RC frames subjected to seismic loads	Dr. Anoop I. Shirkol
	Performance based design of RC and Steel frames	Dr. Anoop I. Shirkol
	Performance evaluation of buildings in hilly regions	Dr. Anoop I. Shirkol
	Waste material utilization in diverse structural elements	Dr. P.V. Ramana
	Recycled waste material as a replacement in Cement production	Dr. P.V. Ramana
	Mathematical formulations for recycled concrete structures	Dr. P.V. Ramana
	Evaluation of structural response of Slab on grade	Dr. Rameshwar Jagannath Vishwakarma
	Evaluation of mechanical properties of preplaced aggregates concrete	Dr. Rameshwar Jagannath Vishwakarma
	Climate Changes effect on Agriculture	Dr. Gunwant Sharma
	Climate change and its impact on Operation of Reservoirs.	Dr. Gunwant Sharma
	Effect of Soil Structure Interaction on Seismic Fragility of Structure	Dr. Dhiraj Raj
	Use of different wastes in Concrete / mortar/ roads / Alternate Building Materials	Dr. R C Gupta
	Utilization of S.S. industries Waste in Sustainable Concrete / Mortar and its effects on environment.	Dr. R C Gupta

	Development of Sustainable construction material/system	Dr. Sandeep Shrivastava
	Planning of water resources with emphasis on hydrological extremes and climate change	Dr. Himanshu Arora
	Road Safety	Dr. J. K. Jain
	A Study on Composite Mortars for Repair Works of Heritage Buildings	Dr. A K Vyas
	Use of Recycled waste in Concrete.	Dr. Vinay Agrawal
	Use of Solid Waste Materials in Concrete.	Dr. Vinay Agrawal
	Waste material utilization from industries in building/roads-concrete technology	Dr. Vinay Agrawal
	Conceptual design of structures using artificial intelligence	Dr. Vinay Agrawal
	Artificial Intelligence based Structural Health Monitoring	Dr. Vinay Agrawal
	Prediction of concrete mix characteristics incorporating Artificial Intelligence.	Dr. Vinay Agrawal
	Machine learning applications in structural engineering	Dr. Ravindra Nagar
	Textile wastewater treatment using AOP	Dr. Urmila Brighu
	Rural Sanitation	Dr. Urmila Brighu
	Development of sustainable materials	Dr. Pawan Kalla
	Development of relationship between material properties and performance parameters	Dr. Pawan Kalla
	Hydrological modelling using remote sensing & GIS	Dr. Mahesh Kumar Jat
	Assessment of Land use land cover changes using agent-based modelling	Dr. Mahesh Kumar Jat
	Automatic object detection from satellite images using machine learning	Dr. Mahesh Kumar Jat
Computer Science and Engineering	Cyber Physical Systems modelling, attack analysis and countermeasures	Dr. Vijay Laxmi
	Deobfuscation and decompilation for human readable program analysis	Dr. Vijay Laxmi
	Program analysis in hyperthreaded and concurrent applications	Dr. Vijay Laxmi
	synthesis of facial image sequences using physical and anatomical models	Dr. Neeta Nain
	Lip reading and speech synthesis	Dr. Neeta Nain
	Transfer learning and meta learning	Dr. Neeta Nain
	Image super resolution via iterative refinement	Dr. Neeta Nain
	Blockchain Transaction Processing	Dr. Dinesh Gopalani
	Storyline Generation from News Articles	Dr. Dinesh Gopalani
	Abstractive summarisation using Deep learning	Dr. Namita Mittal
	Natural Language Generation using AI	Dr. Namita Mittal
	Security and Privacy using Machine Learning	Dr. Meenakashi Tripathi
	Deep learning for Natural Language Processing	Dr. Yogesh Kumar Meena
	Information Extraction and Event Prediction	Dr. Yogesh Kumar Meena
	Federated learning for secure Connected vehicles.	Dr. Ramesh Babu Batulla
	Security for 5G and Beyond	Dr. Ramesh Babu Batulla

		Machine learning for Blockchain	Dr. Ramesh Babu Batulla
		Vehicular behavior analysis on heterogeneous IoV	Dr. Arka Prokash Mazumdar
		Software-defined and Information-centric Flexibility in IoT	Dr. Arka Prokash Mazumdar
		Secure Intelligent transportation system	Dr. Dinesh Kumar Tyagi
		Integration of Blockchain and FL for security and privacy	Dr. Dinesh Kumar Tyagi
		AI/ML techniques in next-generation advanced computer Networks	Dr. Dinesh Kumar Tyagi
		Machine/Deep Learning with Graphs	Dr. Mahipal Jadeja
		Social Network Analysis using Graph Neural Networks (GNNs)	Dr. Mahipal Jadeja
		Continual Machine Learning Learning	Dr. Satyendra Singh Chauhan
		Deep learning for Natural Language Processing	Dr. Satyendra Singh Chauhan
		Machine-learning based security solutions for IoT and VANET	Dr. Jyoti Grover
		Security and Vulnerability issues in next generation Vehicular Ad Hoc networks	Dr. Jyoti Grover
		Privacy and security issues in the blockchain using deep learning algorithms.	Dr. Smita Naval
		Memory forensics for intrusion detection using machine learning	Dr. Smita Naval
Electrical Engineering		State estimation of Modern distribution system/Microgrid	Dr. Akhilesh Mathur
		AI application to active distribution network	Dr. Akhilesh Mathur
		Power system analysis	Dr. Akhilesh Mathur
		Modern Distribution system analysis	Dr. Akhilesh Mathur
		Renewable energy	Dr. Mukesh Kumar Shah
		Electric vehicles	Dr. Mukesh Kumar Shah
		Multilevel inverters	Dr. Sandeep N
		Optimal Operation and Control of Power Systems integrated with Renewables	Dr. Kusum Verma
		Power Electronics	Dr. Saravana Prakash P
		Power Quality Improvement	Dr. Saravana Prakash P
		Electrical Drives	Dr. Saravana Prakash P
		Electrical Vehicles (EV) Integration to Grid and Renewable Energy	Dr. Saravana Prakash P
		Electric Vehicles	Dr. Nikhil Gupta
		Smart Grids	Dr. Nikhil Gupta
		Demand Response	Dr. Nikhil Gupta
		Investigation of Nonlinear Systems	Dr. Neeli Satyanarayana
		Performance Improvement of Distribution System using Renewable Energy Resources	Dr. Anil Swarnakar

	Impact of Electric Vehicles on Distribution System Performance	Dr. Anil Swarnakar
	Microgrids	Dr. Dipti Saxena
	Energy management	Dr. Dipti Saxena
	Applications of Signal processing and Machine learning in Power Systems Power Electronics biomedical or image processing	Dr. Hemant Kumar Meena
	Power system Optimization Power system Economics	Dr. Hemant Kumar Meena
	Energy Systems Planning	Dr. Rohit Bhakar
	Cyber Security in Power Systems	Dr. Rohit Bhakar
	Power system analysis and optimization	Dr. Satish Sharma
	Cyber Security of Power Systems	Dr. Satish Sharma
Electronics and Communication Engineering	Cyber-physical systems/Embedded/IoT	Dr. Vineet Sahula
	Machine Learning application in Embedded domain	Dr. Lava Bhargava
	Design of Microstrip Antenna	Dr. M. M. Sharma
	Design of FSS, Absorbers, Rasorbers	Dr. M. M. Sharma
	Design of Metasurfaces & Metamaterials	Dr. M. M. Sharma
	Design and Development of Biosensor	Dr. C. PERIASAMY
	Machine Learning and Nature Inspired Optimization	Dr. Satyasai Jagannath Nanda
	Deep Learning for Computer Vision applications	Dr. Kuldeep Singh
	AI based biomedical device development	Dr. Kuldeep Singh
	Devices and Sensors	Dr. Menka
	Microelectronic devices and sensors	Dr. Deepak Bharti
	Mathematical modelling of beam interactions in TWTs	Dr. Rajendra Mitharwal
	Nanoelectronics devices simulation and modeling	Dr. Rajesh Saha
	TFET as Biosensor	Dr. Rajesh Saha
	Antenna For Wireless Applications	Dr. Sarthak Singhal
	Nano Electronics Device Modeling & Simulation	Dr. Bharat Choudhary
	Analysis of biomedical signals for disease detection	Dr. K K Sharma
	Application of Error Correcting Codes in FSO communication	Dr. Vijay Janyani
	Quantum Computing/ Bio MEMS	Dr. Ritu Sharma
	Large area free space optical receiver for WDM-PON	Dr. Ravi Kumar Maddila
Humanities and Social Sciences	Energy/Green Economics	Dr. Dipti Sharma
	Impact Assessment of Power Sector Reforms; Electricity Markets	Dr. Dipti Sharma
	Voices, Stories and Concerns in Modern Literature	Dr. Nupur Tandon
	Development Economics	Dr. Manju Singh
	Digital Inequalities and marginalization	Dr. Nidhi Bansal
Management Studies	Mindfulness and Digital Well-being	Dr. Aakansha Kataria
	Positive Psychological Interventions and Organizational Performance	Dr. Aakansha Kataria
	Behaviour in online/digital environments	Dr. Deepak Verma
	Issues in technology adoption	Dr. Deepak Verma
	Value co-creation in marketing	Dr. Divesh Kumar

	Sustainable consumer behavior	Dr. Divesh Kumar
	Lean and Sustainability Modelling	Dr. Monica Sharma
	Sustainable Supply Chain Management and Circular Economy	Dr. Monica Sharma
	Leadership and Influence	Dr. Priyanka Sihag
	Talent management practices and organizational performance	Dr. Reeta Singh
	Sustainable HRM Practices & Challenges	Dr. Reeta Singh
	Corporate Finance	Dr. Satish Kumar
Material Research Centre	Materials For Hydrogen Storage	Dr. Nisha Verma
	Energy storage - Na ion battery	Dr. Kanupriya Sachdev
Mathematics	Theoretical and Computational fluid dynamics	Dr. Geetanjali Chattopadhyay
	Application of fractional calculus and special functions in Mathematical modeling	Dr. Sanjay Bhatter
	Study of Generalized Special function and its applications	Dr. Sanjay Bhatter
	Mathematical analysis ofconvective flows	Dr. Om P. Suthar
	Stability of dynamical systems	Dr. Om P. Suthar
Mechanical Engineering	Application of artificial intellegence techniques to planning and scheduling problems	Dr. Murari Lal Mittal
	Data Driven Approaches for Achieving Circularity in Supply Chains	Dr. Gunjan Soni
	Phase Field Modelling of Fracture Failure in Engineering Materials	Dr. Dinesh Kumar
	Vibration based fault diagnosis of machines	Dr. Naresh Kumar Raghuwanshi
	Alternate fuels and emissions in I.C. engines	Dr. Dilip Sharma
	Investigation of additively manufactured triply periodic minimal surface and Nodal periodic surface based heat exchangers	Dr. Manish Kumar
	Product Development for Clubfoot (CTEV) Correction with Mechanisms and Automation	Dr. Harlal Singh Mali
	Developing Hybrid Textile Composite based Curved Laminates for Armoured Helmets	Dr. Harlal Singh Mali
	Characterization, analysis and testing of flux fused novel alloy through arc welding process	Dr. Jinesh Kumar Jain
	Wear performance study of composites.	Dr. Mukesh Kumar
	Study of wear resistant composite coatings on materials	Dr. Mukesh Kumar
	Design and fabrication of composites	Dr. Pankaj Kumar Gupta
	Welding of dissimilar materials	Dr. Tapas Bajpai
Metallurgical and Materials Engineering	Tribological Studies of Single/Multi Walled CNTs in a metal based composite coating	Dr. Krishna Kumar
	Joining of dissimilar metals	Dr. Jyotirmaya Kar
	Development of Aluminium-Lithium nanocomposites for energy storage applications	Dr. Sreekumar Vadakke Madam
	Microstructure and Mechanical Behaviour of Steel	Dr. Manjesh Kumar Mishra
	Renewable energy materials	Dr. Kunal Borse
	Development of high strength materials through severe plastic deformation techniques	Dr. Abhishek Tripathi

Department/Centre	Tentative Research Area of proposed Ph.D.	Faculty Member
	To study the effectof microstructure on mechanical performance of a Q & P TRIP/dual phase steel.	Dr. Rajesh Kumar Rai
National Centre for Disaster Mitigation & Management	Seismic Behaviour of Concrete Dams	Dr. M. K. Shrimali
	Seismic Behaviour of Precast /Steel Buildings	Dr. M. K. Shrimali
Physics	Optical properties of metal-fullerene nanocomposite thin fims	Dr. Rahul Singhal
	Ion beam induced modifications of graphene based nanocomposites	Dr. Rahul Singhal
	Novel Electrode Materials for Solid State Batteries	Dr. Debasish Sarkar
	Functional Materials for Flexible and Wearable Sensors	Dr. Kamlendra Awasthi
	Gel Polymer electrolytes for metal air batteries	Dr. Rajnish Dhiman
	Energy storage - Na ion battery	Dr. Kanupriya Sachdev

FULL TIME WITH OWN SCHOLARSHIP (NET JRF/CSIR JRF ETC...)		
Department/Centre	Tentative Research Area of proposed Ph.D.	Faculty Member
Centre for Energy and Environment	Solar Photovoltaics and its industrial application	Dr. Sunanda Sinha
	Solar Photovoltaics and its industrial application	Dr. Kapil Pareek
	Biomass to Bioenergy	Dr. Vivekanand
Chemical Engineering	Wastewater treatment by fabricated supported ionic membrane in microchannel	Dr. Rajeev Kumar Dohare
	Synthesis of photocatalyst for photocatalytic oxidation of organic pollutants	Dr. Virendra Kumar Saharan
	Removal of toxic chemicals from waste water	Dr. Madhu Agarwal
	Synthesis of valuable products using marble processing slurry.	Dr. S. K. Jana
	Biomass gasification to synthesis gas and application of the synthesis gas	Dr. Sonal
	Hydrothermal carbonization of sewage sludge for recovery of phosphorous and nitrogen and hydrochar	Dr. Rohidas Gangaram Bhoi
	Antifoulant membrane for membrane bioreactor applications	Dr. Md. Oayes Midda
	Inorganic-organic hybrid materials for environmental remediation	Dr. Lovjeet Singh
	Development of low cost catalyst to treat bio-refractory compounds from aquatic regime.	Dr. R. K. Vyas
	Synthesis of oxygenated fuel additives through a catalytic process	Dr. V. Subbaramaiah
	Development of Hydrophobic Coating for Ultrafine Ammonium Perchlorate for enhanced Shelf Life and Improved Safety for space application	Dr. Vijayalakshmi Gosu
Chemistry	Green synthesis of nanomaterials for wastewater treatment	Dr. Ragini Gupta

	Nanocomposites for industrial and environmental applications	Dr. Ragini Gupta
	Chalcogen metal carbonyl assisted value added organic transformations	Dr. Raj Kumar Joshi
	Layered nanomaterials for energy and environmental applications	Dr. Sumanta Kumar Meher
	Metal chalcogenide nanomaterials for sustainable energy and environment	Dr. Sumanta Kumar Meher
	Inorganic Nanomaterials as Visible-Light Promoted Photocatalyst	Dr. Sumit Kumar Sonkar
	Sunlight-Promoted Carbon di-oxide Reduction using Nanocarbons	Dr. Sumit Kumar Sonkar
	Waste Derived Nanomaterials used for Organic Transformation Reactions	Dr. Sumit Kumar Sonkar
	Theoretical investigation of chemical reactions involving high miltireference character	Dr. Pradeep Kumar
	Computational investigation of the Role of Polar stratospheric clouds in the ozone depletion	Dr. Pradeep Kumar
	Matrix isolation spectroscopy of astrochemically important molecular clusters	Dr. Biman Bandyopadhyay
	Stereoselective Synthesis of Carbohydrate scaffolds of Medicinal importance.	Dr. Sudhir Kashyap
	Stereoselective Glycosylation for the Synthesis of glycoconjugates employing Greener methods.	Dr. Sudhir Kashyap
	Designing a Chiral Library containing Heterocyclic Ring on Sugar Molecule using Green protocols.	Dr. Sudhir Kashyap
	Organometallic Syntheses for Small Molecule Activation.	Dr. Abbas Raja Naziruddin
	Nanomaterials for Water Splitting Reactions	Dr. Abbas Raja Naziruddin
	Molecules for Photodynamic Treatment of Cancer	Dr. Abbas Raja Naziruddin
	Computational Calculations for Structure-Activity Relationship	Dr. Abbas Raja Naziruddin
	Transition metal based green nano-materials:Synthesis and industrial applications	Dr. Manviri Rani
	Green synthesis of nano-composites for wastewater treatment	Dr. Manviri Rani
	Heteroatoms-enriched porous metal phosphonate-based materials for CO_2 capture and conversion	Dr. Pawan Rekha
	Amine-functionalized inorganic-organic hybrid material for environmental applications	Dr. Pawan Rekha
	Advanced nanomaterials for sustainable water solution	Dr. Meena Nemiwal
	New emerging materials for synthesis of bioactive heterocycles	Dr. Meena Nemiwal
Civil Engineering	Multivariate Drought analysis using Copulas	Dr. Himanshu Arora
Computer Science and Engineering	Improving Regression Testing using Machine Learning	Dr. Girdhari Singh

	Improving Mutation testing using Machine Learning	Dr. Girdhari Singh
	Privacy issues in Blockchain	Dr. Pilli Emmanuel Shubhakar
	Vulnerability in resource orchestration in Cloud	Dr. Pilli Emmanuel Shubhakar
	Image face anti spoofing detection	Dr. Neeta Nain
	Differentiating natural and artificial face images	Dr. Neeta Nain
	Abstractive summarisation using Deep learning	Dr. Namita Mittal
	Natural Language Generation using AI	Dr. Namita Mittal
	Wireless Communication and cloud security	Dr. Mushtaq Ahmed
	AI Based Data Analytics Decision Making	Dr. Mushtaq Ahmed
	Blockchain assisted data sharing	Dr. Meenakashi Tripathi
	Deep learning for Natural Language Processing	Dr. Yogesh Kumar Meena
	Information Extraction and Event Prediction	Dr. Yogesh Kumar Meena
	Machine/Deep Learning with Graphs	Dr. Mahipal Jadeja
	Social Network Analysis using Graph Neural Networks (GNNs)	Dr. Mahipal Jadeja
	Real world applications of IoT using machine learning	Dr. Jyoti Grover
	Machine learning based solutions for next generation networks	Dr. Jyoti Grover
	Privacy and security issues in the blockchain using deep learning algorithms.	Dr. Smita Naval
	Memory forensics for intrusion detection using machine learning	Dr. Smita Naval
	Explainable AI/ML	Dr. Deepak Ranjan Nayak
	Activity Recognition in Videos	Dr. Deepak Ranjan Nayak
Electrical Engineering	Optimal Operation and Control of Power Systems integrated with Renewables	Dr. Kusum Verma
	Machine Learning for Robotics	Dr. Rajesh Kumar
Electronics and Communication Engineering	Application of Cognitive Approaches to VLSI/language processing/Graphs/IoT	Dr. Vineet Sahula
	Quantum computing	Dr. Lava Bhargava
	Design of Microstrip Antenna	Dr. M. M. Sharma
	Design of FSS, Absorbers, Rasorbers	Dr. M. M. Sharma
	Design of Metasurfaces & Metamaterials	Dr. M. M. Sharma
	Machine Learning and Nature Inspired Optimization	Dr. Satyasai Jagannath Nanda

	Deep Learning for Computer Vision applications	Dr. Kuldeep Singh
	AI based biomedical device development	Dr. Kuldeep Singh
	VLSI Testing	Dr. Menka
	Inverse scattering techniques for quality assessment of concrete pillars	Dr. Rajendra Mitharwal
	Multiband/Wideband Absorbers	Dr. Sarthak Singhal
	Low Power VLSI Design	Dr. Bharat Choudhary
	Design of High Speed Optical Communication System	Dr. Vijay Janyani
	Design and development of laser line filters for free space optical communications	Dr. Ravi Kumar Maddila
Humanities and Social Sciences	Energy/Green Economics	Dr. Dipti Sharma
	Impact Assessment of Power Sector Reforms; Electricity Markets	Dr. Dipti Sharma
	Voices, Stories and Concerns in Modern Literature	Dr. Nupur Tandon
	Indian Political Institutions	Dr. Vibhuti Singh Shekhawat
	Development Economics	Dr. Manju Singh
	South Asian Literature and Films	Dr. Preeti Bhatt
	Behavioral Economics	Dr. Nidhi Sharma
	Language and Culture	Dr. Niraja Saraswat
	Digital Inequalities and marginalization	Dr. Nidhi Bansal
Management Studies	Mindfulness and Digital Well-being	Dr. Aakansha Kataria
	Positive Psychological Interventions and Organizational Performance	Dr. Aakansha Kataria
	Behaviour in online/digital environments	Dr. Deepak Verma
	Issues in technology adoption	Dr. Deepak Verma
	Value co-creation in marketing	Dr. Divesh Kumar
	Sustainable consumer behavior	Dr. Divesh Kumar
	Lean and Sustainability Modelling	Dr. Monica Sharma
	Sustainable Supply Chain Management and Circular Economy	Dr. Monica Sharma
	Leadership and Influence	Dr. Priyanka Sihag
	Talent management practices and organizational performance	Dr. Reeta Singh
	Sustainable HRM Practices & Challenges	Dr. Reeta Singh
	Fintech and Digital Finance	Dr. Satish Kumar
	Consumer Economics and Behavioral Finance	Dr. Satish Kumar
	Sustainable Finance	Dr. Shweta Sharma
	Behavioral Finance	Dr. Shridev
Material Research Centre	Nano Composite Material for Cutting tool application	Dr. Nisha Verma
	Hybrid nanostrucures for Multi-functional applications	Dr. Bhagwati Sharma
Mathematics	Evolution of thin film flow	Dr. Geetanjali Chattopadhyay
	Application of fractional calculus and special functions in Mathematical modeling	Dr. Sanjay Bhatter
	Study of Generalized Special function and its applications	Dr. Sanjay Bhatter

	Hydrodynamic stability of fluidflows	Dr. Om P. Suthar
	Computational study of nonlinear PDEs	Dr. Om P. Suthar
Physics	Structural modifications using ion beams for e nanocomposite thin films	Dr. Rahul Singhal
	Electronic excitations induced modifications of energy storage materials	Dr. Rahul Singhal
	Carbon materials for High-voltage Supercapacitors	Dr. Debasish Sarkar
	Development of Catalysts for Hydrogen Generation	Dr. Debasish Sarkar
	Nanomaterials for Hydrogen Energy: Generation & Storage	Dr. Kamlendra Awasthi
	Advanced materials for flexible energy harvesting and storage devices	Dr. Kamlendra Awasthi
	Topological Superconductivity in Condensed Matter	Dr. Manoj Kumar
	Study of Quantum Materials for Spintronic Devices	Dr. Manoj Kumar

FULL TIME SPONSORED/OFF CAMPUS/PART TIME (INSTITUTE FACULTY, INSTITUTE STAFF, EXECUTIVE/PROFESSIONAL)		
Department/Centre	**Tentative Research Area of proposed Ph.D.**	**Faculty Member**
Architecture and Planning	Systems approach to urban planning	Dr. Satish Pipralia
	Traditional Architecture and sustainable development	Dr. Ashwani Kumar
	Development in disaster Prone areas	Dr. Ashwani Kumar
	Urban systems and their planning	Dr. Pooja Nigam
	Crafts and other Traditional Knowledge Systems in Built Vernacular Heritage	Dr. Pooja Nigam
	Sustainable Urban Development and Policy Planning	Dr. Pooja Nigam
	Sustainable Urban Infrastructure	Dr. Niruti Gupta
	Smart cities and urban resilience	Dr. Niruti Gupta
	Urban Built Environment	Dr. Bhavna Shrivastav
	Sustainable Housing	Dr. Bhavna Shrivastav
	Urban Design for Architectural Design Appreciation	Dr. Gireendra Kumar
	Visual Communication in Architecture	Dr. Gireendra Kumar
	Urban Infrastructure Planning and Management	Dr. Yash Kumar Mittal
	Planning for Disaster Resilience	Dr. Yash Kumar Mittal
	Construction Project Management	Dr. Yash Kumar Mittal
	Urban Transport Planning and Engineering	Dr. Yash Kumar Mittal
Centre for Energy and Environment	Solar Photovoltaics and its industrial application	Dr. Sunanda Sinha
	Biomass to Bioenergy	Dr. Vivekanand

Chemical Engineering	Strategies for wastewater treatment.	Dr. U.K.Arun kumar
	AI and ML for Chemical Process Industries	Dr. Surajit Ghosh
	Control study of Reactive Divided Wall Distillation Column for methyl acetate synthesis	Dr. Rajeev Kumar Dohare
	Hybrid advanced oxidation process for grey water treatment	Dr. Virendra Kumar Saharan
	Advanced processes for water and waste water treatment	Dr. Madhu Agarwal
	Bioethanol from Cellulosic materials	Dr. S. P. Chaurasia
	Catalytic conversion of biomass into platform chemicals	Dr. Sonal
	Antifoulant membrane for wastewater treatment	Dr. Md. Oayes Midda
	Development of solar light-driven photocatalysts for conversion of CO_2 into fuels and chemicals	Dr. Lovjeet Singh
	Studies on an advanced oxidation process for removal of pharmaceuticals from water	Dr. R. K. Vyas
	Hybrid Advanced oxidation processes for wastewater treatment	Dr. Vikas Sangal
	Industrial hygiene of silica dust exposure in Rajasthan: Spatial distribution, diagnosis, risk assessment, and its management	Dr. V. Subbaramaiah
	Microplastics in the Environment: Occurrence, Fate, and its Removal	Dr. Vijayalakshmi Gosu
	Integrated approach for Energy Management	Dr. Manish Vashishtha
Civil Engineering	Soil stabilization using waste materials	Dr. S.K.Tiwari
	Soil stabilization using reinforcing materials	Dr. S.K.Tiwari
	Application of Geosynthetics	Dr. S.K.Tiwari
	Behaviour of randomly distributed natural fiber reinforced soils	Dr. S.K.Tiwari
	Characterisation of desert soils with special reference to rajasthan.	Dr. S.K.Tiwari
	Strengthening of desert soils using natural vegetatives found in these soils	Dr. S.K.Tiwari
	Application of Machine Learning in Environmental Engineering	Dr. Ruchi Sharma
	Evaluation of buildings in hilly regions Performance evaluation of RC frames subjected to seismic loads	Dr. Anoop I. Shirkol
	Development of recycled concrete using waste material	Dr. P.V. Ramana
	Waste material utilization in diverse structural elements	Dr. P.V. Ramana
	A mathematical optimization model for the recycled reinforced concrete structural elements	Dr. P.V. Ramana
	Evaluation of mechanical properties of preplaced aggregates concrete	Dr. Rameshwar Jagannath Vishwakarma

	Evaluation of structural response of short panelled concrete pavement	Dr. Rameshwar Jagannath Vishwakarma
	Ground Improvement methods with the application of Alternate Materials	Dr. Neha Shrivastava
	Experimental/ Mathematical Modeling of Geosynthetics reinforced Earth Structures	Dr. Neha Shrivastava
	DESIGN AND ANALYSIS OF RETAINING WALL	Dr. Siddharth Mehndiratta
	Use of different wastes in Concrete / mortar/ roads / Alternate Building Materials	Dr. R C Gupta
	Utilization of S.S. industries Waste in Sustainable Concrete / Mortar and its effects on environment.	Dr. R C Gupta
	Development of Sustainable construction material/system	Dr. Sandeep Shrivastava
	Rainfall runoff processes under climate change employing machine learning	Dr. Himanshu Arora
	Transportation Planning	Dr. J. K. Jain
	Use of Recycled waste in Concrete.	Dr. Vinay Agrawal
	Use of Solid Waste Materials in Concrete.	Dr. Vinay Agrawal
	Waste material utilization from industries in building/roads-concrete technology	Dr. Vinay Agrawal
	Conceptual design of structures using artificial intelligence	Dr. Vinay Agrawal
	Artificial Intelligence based Structural Health Monitoring	Dr. Vinay Agrawal
	Prediction of concrete mix characteristics incorporating Artificial Intelligence.	Dr. Vinay Agrawal
	Textile wastewater treatment using AOP	Dr. Urmila Brighu
	Rural Sanitation	Dr. Urmila Brighu
	Automatic target detection from satellite images	Dr. Mahesh Kumar Jat
Computer Science and Engineering	Improving Regression Testing using Machine Learning.	Dr. Girdhari Singh
	Improvising Software testing using Machine Learning	Dr. Girdhari Singh
	Deobfuscation and decompilation for human readable program analysis	Dr. Vijay Laxmi
	Adversial Machine Learning for Vulnerability and Exploit Detection	Dr. Vijay Laxmi
	Sensor and IoT spoofing attacks and privacy preserving countermeasures	Dr. Vijay Laxmi
	Security and Forensics in Dark Web	Dr. Pilli Emmanuel Shubhakar
	Quantum Machine Learning	Dr. Pilli Emmanuel Shubhakar
	3D reconstruction of face from 2D images	Dr. Neeta Nain
	Video surveillance and person identification	Dr. Neeta Nain
	A Computational Framework for Emotion Analysis in Text	Dr. Dinesh Gopalani
	Multilingual Source Code Analysis	Dr. Dinesh Gopalani
	Abstractive summarisation using Deep learning	Dr. Namita Mittal

	Natural Language Generation using AI	Dr. Namita Mittal
	Wireless Communication and cloud security	Dr. Mushtaq Ahmed
	AI Based Data Analytics Decision Making	Dr. Mushtaq Ahmed
	Solving Challenges of Smart Networks	Dr. Meenakashi Tripathi
	Deep learning for Natural Language Processing	Dr. Yogesh Kumar Meena
	Information Extraction and Event Prediction	Dr. Yogesh Kumar Meena
	Federated learning for secure Connected vehicles.	Dr. Ramesh Babu Batulla
	Software-defined and Information-centric Flexibility in IoT	Dr. Arka Prokash Mazumdar
	Secure Intelligent transportation system	Dr. Dinesh Kumar Tyagi
	Integration of Blockchain and FL for security and privacy	Dr. Dinesh Kumar Tyagi
	AI/ML techniques in next-generation advanced computer Networks	Dr. Dinesh Kumar Tyagi
	Machine/Deep Learning with Graphs	Dr. Mahipal Jadeja
	Social Network Analysis using Graph Neural Networks (GNNs)	Dr. Mahipal Jadeja
	IoT Malware Evasion Techniques	Dr. Jyoti Grover
	Federated Learning for IoT applications	Dr. Jyoti Grover
	Privacy and security issues in the blockchain using deep learning algorithms.	Dr. Smita Naval
	Memory forensics for intrusion detection using machine learning	Dr. Smita Naval
	Deep Learning for Computer Vision Tasks	Dr. Deepak Ranjan Nayak
	Retinal Fundus Image Analysis using Deep Learning	Dr. Deepak Ranjan Nayak
	Machine learning for smart farming.	Dr. Lavika Goel
	Deep learning for lung cancer detection.	Dr. Lavika Goel
	Smart agriculture using computer vision and IoT	Dr. Ashish Kumar Tripathi
	Deep learning models for activity detection	Dr. Ashish Kumar Tripathi
Electrical Engineering	State estimation of Modern distribution system/Microgrid	Dr. Akhilesh Mathur
	AI application to active distribution network	Dr. Akhilesh Mathur
	Power system Analysis	Dr. Akhilesh Mathur
	Modern Distribution system analysis	Dr. Akhilesh Mathur
	Applications of control in power systems	Dr. Neeli Satyanarayana
	Machine Learning for Smart Grid	Dr. Rajesh Kumar
	Microgrids	Dr. Dipti Saxena
	Energy management	Dr. Dipti Saxena
	Applications of Signal processing and Machine learning in Power Systems Power Electronics biomedical or image processing	Dr. Hemant Kumar Meena

	Power system Optimization Power system Economics	Dr. Hemant Kumar Meena
Electronics and Communication Engineering	5G Antennas, Wireless Sensors Networks	Dr. R.P. Yadav
	Application of Cognitive Approaches to VLSI/language processing/Graphs/IoT	Dr. Vineet Sahula
	Analog Integrated Circuits.	Dr. D.Boolchandani
	MEMS based sensors	Dr. D.Boolchandani
	MEMS	Dr. Lava Bhargava
	Design of Microstrip Antenna	Dr. M. M. Sharma
	Design of FSS, Absorbers, Rasorbers	Dr. M. M. Sharma
	Design of Metasurfaces & Metamaterials	Dr. M. M. Sharma
	Deep Learning for Computer Vision applications	Dr. Kuldeep Singh
	AI based biomedical device development	Dr. Kuldeep Singh
	Analog & Digital VLSI Design	Dr. Bharat Choudhary
Humanities and Social Sciences	Energy/Green Economics	Dr. Dipti Sharma
	Impact Assessment of Power Sector Reforms; Electricity Markets	Dr. Dipti Sharma
	Voices, Stories and Concerns in Modern Literature	Dr. Nupur Tandon
Management Studies	Lean and Sustainability Modelling	Dr. Monica Sharma
	Sustainable Supply Chain Management and Circular Economy	Dr. Monica Sharma
	Behavioral Finance	Dr. Shridev
Mechanical Engineering	Simulation of Semipermeable Crack in Piezoelectric Materials	Dr. Gulab Pamnani
	Battery thermal management system for electric vehicles	Dr. Nikhil Sharma
	Wear performance study of composites.	Dr. Mukesh Kumar
	Study of wear resistant composite coatings on materials	Dr. Mukesh Kumar
	Investigations on advanced manufacturing processes	Dr. Pankaj Kumar Gupta
Metallurgical and Materials Engineering	Synthesis of Fe based cutting tools via powder metallurgy route	Dr. Vijay Navaratna Nadakuduru
	Development of high toughness Aluminium composites	Dr. Sreekumar Vadakke Madam
National Centre for Disaster Mitigation & Management	Seismic Behaviour of Concrete Dams	Dr. S. D. Bharti
	Seismic Behaviour of Precast /Steel Buildings	Dr. S. D. Bharti
Physics	Nanomaterials for Developing Latent Fingerprints	Dr. Kamlendra Awasthi
	Si-based Nanostructures for Supercapacitors and Li-ion Batteries.	Dr. Manoj Kumar

Department/Centre	Tentative Research Area of proposed Ph.D.	Faculty Member
FOR PART TIME Ph.D.(ONLY FOR RESEARCH PERSONNEL PRESENTLY SERVING IN VARIOUS PROJECTS IN MNIT JAIPUR)		
Centre for Energy and Environment	EV charging Coordination and Navigation for Smart Cities	Dr. Parul Mathuria
	Electric Transportation	Dr. Rohit Bhakar
Chemical Engineering	Development of Novel Electrocatalyst for the Efficient Conversion of Biomass Derived Syngas to Electrical Power Using Solid Oxide Fuel Cell Technique	Dr. Neetu Kumari
Chemistry	Stereoselective Synthesis of 2-Deoxy and 2,6-Dideoxyglycoconjugates.	Dr. Sudhir Kashyap
Civil Engineering	Estimation of Earthquake Disaster Risk Index for Different Cities of India	Dr. Dhiraj Raj
Computer Science and Engineering	Age invariant multi racial faces recognition	Dr. Neeta Nain
	Graph neural networks for face aging	Dr. Neeta Nain
	Developing a user-friendly Chatbot system as an interface for Knowledge extraction in Natural language	Dr. Namita Mittal
	Retinal Fundus Image Analysis using Deep Learning	Dr. Deepak Ranjan Nayak
Electrical Engineering	Power Electronics	Dr. Saravana Prakash P
	Power Quality Improvement	Dr. Saravana Prakash P
	Electrical Drives	Dr. Saravana Prakash P
	Electrical Vehicles (EV) Integration to Grid and Renewable Energy	Dr. Saravana Prakash P
	Healthcare Intelligence	Dr. Rajesh Kumar
	Electric Transportation	Dr. Rohit Bhakar
Electronics and Communication Engineering	Design of Microstrip Antenna	Dr. M. M. Sharma
	Design of FSS, Absorbers, Rasorbers	Dr. M. M. Sharma
	Design of Metasurfaces & Metamaterials	Dr. M. M. Sharma
Humanities and Social Sciences	Voices, Stories and Concerns in Modern Literature	Dr. Nupur Tandon
	South Asian Literature and Films	Dr. Preeti Bhatt
Material Research Centre	Phase stability of immiscible systems under irradiation- a case study for CuTa alloy	Dr. Nisha Verma
Mechanical Engineering	Effect of alcohol additives on diesel engine	Dr. Nikhil Sharma
	Product Development for Clubfoot (CTEV) Correction with Mechanisms and Automation	Dr. Harlal Singh Mali
	Developing Hybrid Textile Composite based Curved Laminates for Armoured Helmets	Dr. Harlal Singh Mali
Physics	EMI attenuation of CCTO/Polymer nanocomposites	Dr. Rahul Singhal
	In-situ and Operando X-ray Absorption Spectroscopy of the MoS_2 Electrode to Reveal Its Charge Storage Mechanism in a Supercapacitor Cell	Dr. Debasish Sarkar

Department	Tentative Research Area of proposed Ph.D.	Faculty Member
Ph.D. TOPIC VISVESVARAYA Ph.D. SCHEME FOR ELECTRONICS AND IT : PHASE II OF MIETY		
Electrical Engineering	Smart Grids	Dr. Nikhil Gupta
	Design and Implementation of High Gain Hybrid Converter for Solar Powered Electric Vehicle Charging Applications	Dr. Nitin Gupta
	Design and Development of smart charging strategies for EV integration.	Dr. Nitin Gupta
	Smart Grids	Dr. Rohit Bhakar
	Virtual Energy Storage	Dr. Rohit Bhakar
	Cyber-Physical Energy System	Dr. Rohit Bhakar
	Application of Artificial Intelligence in Power Systems	Dr. Kusum Verma
	Image Processing/DSP, Bioinformatics	Dr. Hemant Kumar Meena
	Advanced learning approaches for human behavior modeling	Dr. . Rajesh Kumar
	Cyber-Physical Energy System	Dr. Man Mohan Garg
	Smart Grids	Dr. Anil Swarnkar
	Smart Grids	Dr. . K.R.Niazi
	Smart Grids	Dr. Mukesh Kumar Shah
	Electric Vehicle (EV)Integration to Grid, Renewable Integration in Power Systems, Smart Grid, Power System Dynamics and Voltage Stability Studies,	Dr. .Rajive Tiwari
Computer Science and Engineering	Hardware security	Dr. Vijay Laxmi
	Image Processing/DSP	Dr. Neeta Nain
	Natural Language Processing	Dr. Namita Mittal
	Internet of Things/Wireless Sensor Network	Dr. Meenakshi Tripathi
	Natural Language Processing	Dr. Yogesh Kumar Meena
	Machine Learning	Dr. Mahipal Jadeja
	Image Processing/DSP	Dr. Deepak Ranjan Nayak
Electronics and Communication Engineering	Analog Integrated Circuits	Dr. D.Boolchandani
	5G Communication, Wireless Sensor Network, RF/Wireless Communication	Dr. R. P. Yadav
	Design of high speed FSO links using Error Correcting Codes and signal processing	Dr. Vijay Janyani
	RF/Wireless Communication 5G Communication	Dr. M M Sharma
	Photonic devices for 5G & 6G communications	Dr. Ravi Kumar Maddila
	Machine Learning and Nature Inspired Optimization	Dr. Satyasai Jagannath Nanda
	Human Machine Interaction for prothesis applications	Dr. Amit M. Joshi
	AI & Machine Learning	Dr. Kuldeep Singh
	DSP, 5G Communication, Wireless Communications	Dr. ILA SHARMA
	Development of Particle-In-Cell method for modeling for high power microwave devices	Dr. Rajendra Mitharwal
	Microelectronic devices and sensors	Dr. Deepak Bharti
	VLSI Design Device to circuit, sensors	Dr. Menka
	Nano Electronics Device Modeling & Simulation	Dr. Bharat Choudhary

	Nanoelectronics devices simulation and modeling	Dr. Rajesh Saha
	TFET as Sensing Applications	Dr. Rajesh Saha
	Antenna For 5G & Future Wireless Applications	Dr. Sarthak Singhal

11. GENERAL INFORMATION

(a) The institute reserves the right to change its statutes and regulations relating to academic programmes and the modalities of admission without prior notice.

(b) In matters of interpretation of the provisions or any matter not covered here in this information brochure, the decision of the Chairman, Senate shall be final and binding on both the parties.

(c) The provisions for reservation of seats given above are subject to modification in accordance with any Government Order, if issued subsequently by the Government of India.

(d) It will entirely be the responsibility of the candidate to prove his/her eligibility in terms of minimum educational qualifications and for claiming reservation under a specific category, if any, at the time of submitting the application

(e) The requisite certificate for SC/ST/OBC/EWS/PWD category must be submitted, along with application, in original, issued by a competent authority listed in Annexure 1, failing which the benefit of the reserved category will not be given. The OBC/EWS certificate should have been issued after **March 31, 2022**.

(f) PWD candidates should submit along with the application, the certificate, in original, from a Government medical board. Such a candidate may, however, be asked to appear before a Medical Board duly constituted by MNIT, Jaipur for this purpose. The Medical Board will decide the courses, which cannot be offered to a candidate, on the basis of the nature of his/her disability. The candidate will be offered admission out of the remaining courses as per the institute policy.

(g) **The candidate should be ready with all original documents and PG dissertation thesis at the time of interview for Ph.D. admission.**

12. FEES

For Fees structure visit the following link : https://mnit.ac.in/academics/fee_structure

13. MATTERS OF DISPUTE

Disputes if any, arising out of or relating to any matter whatsoever shall be subject to the exclusive jurisdiction of Jaipur Courts.

14. RAGGING

Ragging is banned in the institute and anyone indulging in ragging is likely to be punished appropriately and the punishment may include expulsion from the institute, suspension from the institute or classes for a limited period or fine with a public apology. The punishment may also take the shape of: (i) withholding assistantship or other benefits; (ii) debarring from representation in events (iii) withholding results (iv) suspension, rustication or expulsion from hostel or mess. (v) monetary fines.

a. The candidates are advised to read each and every instruction given in this Information Brochure very carefully before filling-up the Application Form.

b. **The application fee of Rs. 1000/- for General/OBC/EWS category and Rs. 500/- for SC/ST category candidates is to be deposited online only while submitting the application.**

c. The candidate must keep a photocopy of the form for future reference.

d. **Scrutiny of application shall be done solely on the basis of information submitted by the candidate in the application form, hence to be filled very carefully. If at any stage of admission process a candidate is found not to meet the eligibility criteria, have hidden/submitted incorrect information, the candidature of the candidate will be summarily cancelled.**

e. Request for change of category received after the last date of submission of application form will not be accepted under any circumstances.

f. **Self attested photo stat copies of the certificates/testimonials and all originals documents, PG dissertation/thesis copy should be brought along with the Application Form while coming for admission process. Two recent passport size photographs should be brought. Application Form either incompletely filled or without attested copies of the certificates/testimonials is liable to be rejected.**

g. Original Documents/Self attested photocopies of the following certificates have to be brought along with the Application Form at the time of interview:-

    i. High School/Secondary School certificate in support of age/date of birth. No other certificate is acceptable in support of the age/date of birth.

    ii. Provisional/Final Degree certificate/Migration Certificate must be attached.

    iii The Marks Sheet/Grade Card of Qualifying Examination including Diploma if applicable.

    iv Character Certificate from the Director/Dean of Students Affairs/Head of the Institute from where the candidate has graduated (For Full-time course applicants only).

    v Certificate from the employer on the official stationary and rubber stamp of the organization/institution (For full-time sponsored/part-time candidates only).

    vi. **Candidate needs to submit a statement about research proposal (in not more than 500 words) for the topic chosen as first priority. It MUST be attached with application. This will have due weightage during process of screening/selection process.**

h. In case the candidate is seeking admission as a sponsored candidate, he/she should submit a certificate from his/her present employer on official stationary with rubber stamp that he/she will be sponsored on deputation/study leave/extra ordinary leave with permission to attend the full time Ph.D. course if he/she is admitted. The employer should also indicate that the candidate will not be withdrawn midway till the completion of the course.

AUTHORITIES WHO MAY ISSUE CASTE/TRIBE CERTIFICATE

(SC/ST/OBC candidates should submit certificate issued by any of the following authorities)

District Magistrate/Additional District Magistrate/ Collector/ Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/ 1st Class Stipendiary Magistrate/ City Magistrate/ Sub-Divisional Magistrate / Taluka Magistrate /Executive Magistrate /Extra Assistant Commissioner/ Chief Presidency Magistrate/Additional Chief Presidency Magistrate/ Presidency Magistrate/ Revenue Officer not below the rank of Tehsildar/Sub-Divisional Officer of the area where the candidate and /or his/her family normally resides/Administrator/Secretary to Administrator/Development Officer (Lakshadweep Island).

(Certificate issued by any other authority will be rejected.)

CERTIFICATE FROM INSTITUTE / UNIVERSITY

(Required during registration from candidates whose result of the qualifying examination has not been declared)

I hereby certify that Mr./Ms. .... has appeared in the final year examination including theory, practical and project examination for qualifying degree (Name)................................degree and the result is likely to be announced by .... His/her conduct and character during his/her stay at the Institute/University was "GOOD".

Place: ....   Signature of the Principal/Dean/Registrar/

Date:...................   Dy. Registrar/Proctor/Administrative

                                                                     Officer of the institute last attended with seal

CERTIFICATE OF THE FORWARDING OFFICER

(Required from candidates who is yet to appear in the qualifying examination or yet to get the degree)

I hereby certify in connection with the application of Mr./Ms. .... that he/ she is a bonafide student of our institution and is applying for admission to PG programmes at MNIT Jaipur. He/She is yet to complete / has completed all the requirements of qualifying examination including theory, practical and project examination for qualifying degree (Name). .... and the result is likely to be announced by .... His/her conduct and character during his/her stay at the Institute/University is "GOOD".

Place:................

Date:................

Signature of the Principal/Dean/Registrar/

Dy. Registrar/Proctor/Administrative Officer

of the institute attending/last attended with seal

NO OBJECTION CERTIFICATE

(Required from Candidates Seeking Admission on Part-time Basis)

(On a letterhead of the sponsoring organization & enclosed with application for admission)

The undersigned is pleased to permit Mr./Ms. .... who is working in this organization for the last .... years and is presently holding the rank/position of .... for pursuing the programme (course) at MNIT Jaipur in the Department of .... with specialization in the following areas:

1.......................................

2.......................................

3. ....

His/her conduct and character is good. We are ready to relieve him/her during study hours (usually 8-10 hours of classroom instructions in a week) to undergo the Masters' programme / (usually about 6 hours of classroom instructions in a week) to undergo the Ph.D. programme as per time-table of the Institute, which follows slot system. We understand that the duration of course work is expected to be 5 semesters for part-time Ph.D. programme, while total duration is expected to be 6 years for part-time Ph.D.

Place: ....

Date:...................

Signature of Head of the Institution/Organization with seal

Name ....

Designation ....

NO OBJECTION CERTIFICATE

(Required from Candidates Seeking Admission on OFF CAMPUS Basis)

(On a letterhead of the sponsoring organization & enclosed with application for admission)

The undersigned is pleased to permit Mr./Ms. .... who is working in this organization for the last **(must be more than two year)**....................................... years and is presently holding the rank/position of .... for pursuing the programme (course) at MNIT Jaipur in the Department of .... with specialization in the following areas:

1..

2..

3. ....

His/her conduct and character is good. We are ready to relieve him/her to stay on the campus to enable the candidate to complete the "Course work", "Comprehensive Examination" and "State of Art Seminar" and at the end of every semester for the semester evaluation. The organization has the **research and library facilities** available and the same would be available to him/her for carrying out research.

Place: ....   Signature of Head of the Institution/Organization with seal

Date:....................   Name ....

                                            Designation ....

FORMAT FOR OBC [NCL] CERTIFICATE

TO BE PRODUCED BY OTHER BACKWARD CLASSES

[This certificate MUST have been issued on or after 1st April 2022]

This is to certify that Shri/Smt./Kum. _____ Son/Daughter of Shri/Smt. _____ of Village/Town _____ District/Division _____ in the _____ State/UT belongs to the _____ Community which is recognized as a backward class under:

(i)   Resolution No. 12011/68/93-BCC(C), dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186, dated 13/09/93.

(ii)   Resolution No. 12011/9/94-BCC, dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163, dated 20/10/94.

(iii)   Resolution No. 12011/7/95-BCC, dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88, dated 25/05/95.

(iv)   Resolution No. 12011/96/94-BCC, dated 9/03/96.

(v)   Resolution No. 12011/44/96-BCC, dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210, dated 11/12/96.

(vi)   Resolution No. 12011/13/97-BCC, dated 03/12/97.

(vii)   Resolution No. 12011/99/94-BCC, dated 11/12/97.

(viii) Resolution No. 12011/68/98-BCC, dated 27/10/99.

(ix)   Resolution No. 12011/88/98-BCC, dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270, dated 06/12/99.

(x)   Resolution No. 12011/36/99-BCC, dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71, dated 04/04/2000.

(xi)   Resolution No. 12011/44/99-BCC, dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210, dated 21/09/2000.

(xii)   Resolution No. 12016/9/2000-BCC, dated 06/09/2001.

(xiii) Resolution No. 12011/1/2001-BCC, dated 19/06/2003.

(xiv)   Resolution No. 12011/4/2002-BCC, dated 13/01/2004.

(xv)   Resolution No. 12011/9/2004-BCC, dated 16/01/2006 published in the Gazette of India

Extraordinary Part I Section I No. 210, dated 16/01/2006.

(xvi)   Resolution No. 12015/2/2007-BCC, dated 18/08/2010.

(xvii) Resolution No. 12015/2/2007-BCC, dated 11/10/2010.

(xviii) Resolution No. 12015/13/2010-BC-II, dated 08/12/2011.

(xix)   Resolution No. 12015/05/2011-BC-II, dated 17/02/2014.

(xx)   Resolution No. 12011/6/2014-BC-II, dated 07/12/2016.

Shri/Smt./Kum. _____ **and/or his family ordinarily reside(s)inthe**
_____ **District/Division of _____ State/UT. This is also**
to certify that he/she does not belong to the persons/sections (Creamy Layer) mentioned in Column 3 of the
Schedule to the Government of India, Department of Personnel & Training O.M. No. 36 012/22/93-Estt.(SCT),
dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.), dated 09/03/2004.

Place _____   **Signature** _____

Date _____   **Designation^** _____

(with seal of office)

NOTE:

(a)   The term 'Ordinarily' used here will have the same meaning as in Section 20 of the
Representation of the People Act, 1950.

(b)   The authorities competent to issue Caste Certificates are indicated below:

(i)   District Magistrate / Additional Magistrate / Collector / Deputy Commissioner /
Additional Deputy Commissioner / Deputy Collector / First Class Stipendiary Magistrate
/ Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant
Commissioner (not below the rank of 1st Class Stipendiary Magistrate).

(ii)   Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency
Magistrate.

(iii)   Revenue Officer not below the rank of Tehsildar.

(iv)   Sub-Divisional Officer of the area where the candidate and / or his family resides.

(C)   OBC Certificate issued from Maharashtra State must be validated by the Social Welfare
Department of Maharashtra Government.

ANNEXURE VII

OBC Undertaking

Declaration / undertaking - for OBC Candidates only

I, _____ son/daughter of Shri _____ resident of village/town/city _____ district _____ State hereby declare that I belong to the _____ community which is recognized as a backward class by the Government of India for the purpose of reservation in services as per orders contained in Department of Personnel and Training Office Memorandum No.36012/22/93- Estt. (SCT), dated 8/9/1993. It is also declared that I do not belong to persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the above referred Office Memorandum, dated 8/9/1993, which is modified vide Department of Personnel and Training Office Memorandum No.36033/3/2004 Estt.(Res.) dated 9/3/2004.I also declare that the condition of status/annual income for creamy layer of my parents/guardian is within prescribed limits as on financial year ending on March 31, 2022.

Place:

Date :

Signature of the Candidate:

Declaration/undertaking not signed by Candidate will be rejected

SC/ST CERTIFICATE FORMAT

FORM OF CERTIFICATE TO BE PRODUCED BY A CANDIDATE BELONGING TO SCHEDULED CASTE OR SCHEDULED TRIBE

This is to certify that
Shri/Smt./Kum._____ **Son/Daughter of**
Shri ____ _____of village/Town_____in
District/ Division _____ of the State/Union Territory
_____ belongs to the _____ caste/Tribe, which is recognized
as a Schedule Caste/Scheduled Tribe under.

The Constitution (Scheduled Castes) order, 1950.

The Constitution (Scheduled Tribes) order, 1950.

The Constitution (Scheduled Castes)(Union Territory) order, 1951.

The Constitution (Scheduled Tribes) (Union Territory) order, 1951.

(As amended by the Scheduled Castes and Scheduled Tribes (Modification) Order 1956, the Bombay Reorganization Act, 1960, the Punjab Reorganization Act, 1966, The State of Himachal Pradesh Act, 1970, the North Eastern Areas (Reorganization Act, 1971) and the Scheduled Castes and Scheduled Tribes orders (Amendment) Act, 1976.)

*The constitution (Jammu & Kashmir) Scheduled Caste Order, 1956;

*The Constitution (Andaman and Nicobar Islands) Scheduled Tribes, 1959, as amended by the Scheduled Castes and Scheduled Tribes orders (Amendment) Act. 1976;

*The Constitution (Dadra and Nagar Haveli) Scheduled Castes Order 1962;

*The Constitution (Dadra & Nagar Haveli) Scheduled Tribes Order, 1962; *

The Constitution (Pondichery) Scheduled Castes Order, 1964;

*The Constitution (Uttar Pradesh) Scheduled Tribes Order, 1967;

*The Constitution (Goa, Daman &Dieu) Scheduled Castes Order, 1968;

*The Constitution (Goa, Daman&Dieu) Scheduled Tribes Order,1968;

*The Constitution (Nagaland) Scheduled Tribes Order, 1970;

*The Constitution (Sikkim) Scheduled Castes Order, 1978;

*The Constitution (Sikkim) Scheduled Tribes Order, 1978;

*The Constitution (Scheduled Castes) Orders (Amendment) Act, 1990.

*The Constitution (Scheduled Tribes) Order, (Amendment) Ordinance, 1991.

*The Constitution (Scheduled Tribes) Order, (Second Amendment) Act, 1991.

*The Constitution (Scheduled Tribes) Ordinance, 1996

This certificate is issued on the basis of the Scheduled Castes/Scheduled Tribes Certificate issue to

Shri _____**Father of Shri**
_____ _____**of**

village/town_____ **in District/Division** _____ **of the State/UT**
_____ _____

_____**who belongs to the** _____ **caste/Tribe which is recognized as a SC/ST in the State/Union Territory**

_____ **issued by the** _____ **(name of the prescribed issuing authority) vide their No.** _____ **dated** _____ **or Shri** _____ _____ **and or his/her family ordinarily reside(s) in Village/Town** _____**of** _____ **District/Division of the State/Union Territory of** _____**.**

Place_____   **Signature**_____

Date_____   **Designation** _____

(With seal of Office)

NOTE: - The terms ordinarily reside(s) used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

⟹   **SC Certificate issued from Maharashtra State must be validated by Social Welfare Department and ST Caste certificate must be validated by Tribal Development Department of Maharashtra Government.**

LIST OF AUTHORITIES EMPOWERED TO ISSUE CASTE/TRIBE CERTIFICATE:

1. District Magistrate/Additional 1st District Magistrate/Collector/Deputy Commissioner /Additional Deputy Commissioner/Dy.Collector/ Class Stipendiary Magistrate/Sub Divisional Magistrate/Extra Assistant Commissioner/ Taluka Magistrate/Executive Magistrate.

2. Chief Presidency Magistrate/Additional Chief Presidency Magistrate/Presidency Magistrate.

3. Revenue Officers not below the rank of Tahsildar.

4. Sub-Divisional Officers of the area where the candidate and/or his family normally resides.

PWD CERTIFICATE FORMAT

DISABILITY CERTIFICATE FORMAT - I

{In cases of amputation or complete permanent paralysis of limbs and in cases of blindness}

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

No. - _____   Date - _____ /_____ /_____

Signature/LTI/RTI of the Candidate

Passport size photograph of the Candidate

This is to certify that I have carefully examined Shri/Smt./Kum. _____,

son/wife/daughter of Shri _____ Date of Birth ____ / ____ / _____

[Age - _____ years], male/female, Registration No. _____ permanent resident of

House No.- _____, Ward/Village/Street _____ Post Office

_____ District _____ State _____, whose

photograph is affixed above, and am satisfied that

1. he/she is a case of (Please tick as applicable):
    a. locomotor disability
    b. blindness
2. the diagnosis in his/her case is _____.
3. He / She has _____ % (in figure) _____ percent (in words) permanent physical impairment/blindness in relation to his/her _____ (part of body) as per guidelines (to be specified).
4. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing the certificate

Official Seal:

[Authorised Signatory of notified Medical Authority]

Name: _____

{In cases of multiple disabilities}

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

No. - _____   Date - _____ / _____ / _____

Signature/LTI/RTI of the Candidate

Passport size
photograph
of the
Candidate

This is to certify that I have carefully examined Shri/Smt./Kum. _____,

son/wife/daughter of Shri _____ Date of Birth ____ / ____ / _____

[Age - _____ years], male/female, Registration No. _____ permanent resident of

House   No.-   _____,   Ward/Village/Street   _____   Post   Office

_____ District _____ State _____, whose

photograph is affixed above, and am satisfied that

1. He/she is a Case of **Multiple Disability**. His/her extent of permanent physical impairment/ disability has been evaluated as per guidelines (to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

S. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1	Locomotor disability	@		
2	Low vision	#		
3	Blindness	Both Eyes		
4	Hearing impairment	£		
5	Mental retardation	X		
6	Mental-illness	X		

Contd.

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2. In the light of the above, his/her overall permanent physical impairment as per guidelines (to be specified), is as follows:

In figures:_____%

In words:_____percent

3. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

4. Reassessment of disability is:
   (i) Not Necessary [or]
   (ii) is recommended/after_____years_____months, and therefore this certificate shall be valid till (DD/MM/YY) _____.
   @ - e.g. Left/Right/botharms/legs
   # - e.g. Single eye/both eyes
   £ - e.g. Left/Right/both ears

5. The applicant has submitted the following document as proof of residence:

Nature of Document	Date of Issue	Details of authority issuing the certificate

6. Signature and seal of the Medical Authority:

Name and Seal of Member	**Name of Seal of Member**	**Name and Seal of the Chairperson**

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{In cases of any other case not covered in Format – I & II}

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

No. - _____   Date - _____ / _____ / _____

Signature/LTI/RTI of the Candidate

Passport size photograph of the Candidate

This is to certify that I have carefully examined Shri/Smt./Kum. _____,

son/wife/daughter of Shri _____ Date of Birth ____ / ____ / _____

[Age - _____ years], male/female, Registration No. _____ permanent resident of

House No.- _____, Ward/Village/Street _____ Post Office

_____ District _____ State _____, whose

photograph is affixed above, and am satisfied that

1. He/she is a Case of **Multiple Disability**. His/her extent of permanent physical impairment/ disability has been evaluated as per guidelines (to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

S. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1	Locomotor disability	@		
2	Low vision	#		
3	Blindness	Both Eyes		
4	Hearing impairment	£		
5	Mental retardation	X		
6	Mental-illness	X		

<div align="right">Contd.</div>

2. In the light of the above, his/her overall permanent physical impairment as per guidelines (to be specified), is as follows:

   In figures:_____%

   In words:_____percent

3. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

4. Reassessment of disability is:
   (i) Not Necessary [or]
   (ii) is recommended/after_____years_____months, and therefore this certificate shall be valid till (DD/MM/YY) _____.
   @ - e.g. Left/Right/both arms/legs
   # - e.g. Single eye/both eyes
   £ - e.g. Left/Right/both ears

5. The applicant has submitted the following document as proof of residence:

Nature of Document	Date of Issue	Details of authority issuing the certificate

Official Seal:

[Authorised Signatory of notified Medical Authority*]

Name: _____

* In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District. Note: The principal rules were published in the Gazette of India vide notification number S.O. 908(E), dated the 31st December, 1996.

Countersigned^

Official Seal:

[CMO/Medical Superintendent/Head of Govt. Hospital]

Name: _____

^ Countersignature and seal of the CMO/Medical Superintendent/Head of Government Hospital is essential in case the certificate is issued by a medical authority who is not a government servant.

DECLARATION FORM

Id. No.	
Programme:	**Ph.D.**
Department	
Name	
Son/Daughter/Wife of	

I declare that:

1. I shall not receive any salary, scholarship, stipend or any other financial benefit from any other source except the institute assistantship during the period of my study at MNIT. (except top up grants from Institute Project/Industry and income from participating in consultancy projects of faculty of the Institute)

2. I shall not accept and join any job without obtaining prior permission of the institute.

3. I understand that I shall not be permitted to leave the programme midway and shall complete my programme successfully. Failing which I shall pay back entire assistantship received from the institute by me.

4. I also understand that in case I withdraw from the enrolled programme, the caution money shall not be refunded to me.

Signature of the student   Dated:

Email Address

Mobile No.

Contact Details of DPGC Convener of the Department/Centre

S. No.	Department/Centre	Email
1	ARCHITECTURE AND PLANNING	dpgc.arch@mnit.ac.in
2	CENTRE FOR ENERGY AND ENVIRONMENT	dpgc.cee@mnit.ac.in
3	CHEMICAL ENGINEERING	dpgc.chem@mnit.ac.in
4	CHEMISTRY	dpgc.chy@mnit.ac.in
5	CIVIL ENGINEERING	dpgc.ce@mnit.ac.in
6	COMPUTER SCIENCE AND ENGINEERING	dpgc.cse@mnit.ac.in
7	ELECTRICAL ENGINEERING	dpgc.ee@mnit.ac.in
8	ELECTRONICS AND COMMUNICATION ENGINEERING	dpgc.ece@mnit.ac.in
9	HUMANITIES AND SOCIAL SCIENCE	dpgc.hum@mnit.ac.in
10	MANAGEMENT STUDIES	dpgc.dms@mnit.ac.in
11	MATERIAL RESEARCH CENTER	dpgc.mrc@mnit.ac.in
12	MATHEMATICS	dpgc.maths@mnit.ac.in
13	MECHANICAL ENGINEERING	dpgc.mech@mnit.ac.in
14	METALLURGICAL AND MATERIALS ENGINEERING	dpgc.meta@mnit.ac.in
15	NATIONAL CENTRE FOR DISASTER MITIGATION AND MANAGEMENT	dpgc.ncdmm@mnit.ac.in
16	PHYSICS	dpgc.phy@mnit.ac.in