

# INFORMATION BROCHURE

for admission to

**DOCTOR OF PHILOSOPHY- Ph.D.**

**EVEN SEMESTER**

(2020-21)



**MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR**  
**JAWAHAR LAL NEHRU MARG, MALVIYA NAGAR, JAIPUR-302017 (RAJASTHAN)**

<http://www.mnit.ac.in>

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Web Site: [www.mnit.ac.in](http://www.mnit.ac.in)

**Application has to be filled online**

(Link available at [www.mnit.ac.in](http://www.mnit.ac.in)).

**Start Date of Online Application :- 07/12/2020**

**Last Date of submission of Online Application form :- 20/12/2020 (till 5.00 PM)**

**Provisional list of shortlisted/eligible candidates for online written test/interview will be displayed on Institute website by 24/12/2020.**

**Date of online written test :- 29/12/2020 to 30/12/2020**

**Date of online Interview of the shortlisted candidates :- 31/12/2020 to 01/01/2021**

**Final Result :- 08/01/2021**

(No separate interview letter will be issued)

*Also refer to Rules and Regulations manual for PG programmes for more details given on website [mnit.ac.in](http://mnit.ac.in).*

**ADMISSION CATEGORIES**

1. Full Time Research Scholar
  - i) Self Financed
  - ii) With Institute Scholarship
2. Sponsored Full Time Research Scholar
3. Sponsored Part Time Research Scholar (residing within 70 km radius of Jaipur) **NOC required as per annexure V**
4. Off Campus Research Scholar (residing outside 70 km radius of Jaipur) **NOC required as per annexure VI**
5. Project staff of MNIT 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

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). In exceptional cases, brilliant candidates with CGPA of more than 9 (85% marks) in Bachelors degree in Engineering/Architecture may be recommended by DPGC to SPGB for admission in Ph.D. program.
  - iii. **Reservation policy as prescribed by Government of India/MHRD from time to time shall be applicable.**

## **4. 2 Doctor of philosophy**

### ***4.2.1 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 (Where CGPA is not awarded). In exceptional cases brilliant candidates with CGPA of more than 9 (85% 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.

### ***4.2.2 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 (where CGPA is not awarded).

### ***4.2.3 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 (where CGPA is not awarded)

### ***4.2.4 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 (where CGPA is not awarded).

## **5. 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 experience of more than two years, 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

#### **6. 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.**

#### **7. FINANCIAL ASSISTANCE**

- i. The Institute may provide financial assistance to postgraduate students in the form of teaching or 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. A student is expected to devote about eight hours per week towards job(s) assigned to him/her by the department. 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.
- ii. 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.
- iii. In addition to the students admitted with financial assistance, students may also be admitted to the Ph.D. programmes on a self-financing basis.
- iv. The candidates applying for financial assistantship are required to submit the undertaking at the time of admission in the prescribed Performa given in Annexure-XI.

## 8. MINIMUM QUALIFICATION(S) FOR ADMISSION TO PH.D. PROGRAMME

**Table 1 : Minimum qualification(s)**

<b>Department</b>	<b>Minimum Educational Qualification</b>
<b>Architecture &amp; Planning</b>	Masters degree in Architecture/Planning/Technology in relevant discipline.
<b>Chemical Engineering</b>	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.
<b>Chemistry</b>	M.Sc. in Chemistry/ Medicinal Chemistry / Pharmaceutical Chemistry/ Environmental Chemistry/ Biochemistry/ Biotechnology and related disciplines with chemistry as one of the optional subject.
<b>Civil Engineering</b>	M.E./M.Tech. degree in relevant engineering discipline
<b>Computer Science &amp; Engineering</b>	B.E./B.Tech. in Computer Science and Engg./ Computer Engg./ Information Technology/ Communication and Computer Engg./ Electronics and Communication Engg. M.E./M.Tech. in Computer Science and Engg./ Computer Engg./ Software Engg./ Information Technology/ Information Security/ VLSI
<b>Electrical Engineering</b>	M.E./M.Tech. or equivalent degree in respective & relevant Engineering disciplines
<b>Electronics &amp; Communication Engineering</b>	B. Tech. and M. Tech. Electrical/ Electronics/ Computer/ Communication/ Telecommunication/ Instrumentation/ Control/ Microelectronics or equivalent discipline consistent with research areas of department.
<b>Humanities and Social Sciences</b>	M.A./M.Com. or equivalent degree with 6.5 CGPA on a 10-point scale or 60% marks Master's degree in Science with 6.5 CGPA on a 10-point scale or 60% marks may be considered for research areas consistent with the academic background and special interest.
<b>Mathematics</b>	M.A./M.Sc. in Mathematics/Computer Science/Statistics
<b>Mechanical Engineering</b>	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.
<b>Metallurgical &amp; Materials Engineering</b>	B.E. / B.Tech degree in Metallurgical/ Materials / Mechanical /Chemical/ Ceramic Engineering/ Manufacturing / Production Engineering with M.E. / M.Tech degree in Metallurgical/ Materials / Ceramic Engineering/ Thermal Engineering or equivalent degree in relevant engineering disciplines.
<b>Physics</b>	The applicant must have a Master's degree with CGPA not below 6.5 on a 10 point scale or 60% marks (where CGPA is not awarded) 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
<b>Centre for Energy and Environment</b>	B.Tech./B.Arch. With post graduation in relevant discipline
<b>National Centre for Disaster Mitigation and Management</b>	Under Graduate: civil engineering/Architecture Graduate: Structural engineering/Earthquake Engineering or any other branch of civil/architectural Engineering
<b>Management</b>	The applicant must have a <b>two-year post-graduate degree in management /commerce/ economics/ engineering / technology</b> with CGPA not below 6.5 on a ten-point scale or 60% marks (where CGPA is not awarded).
<b>Materials Research Centre</b>	The applicant must have a Master's degree in Engineering/Technology/ Science subject with CGPA not below 6.5 on a ten point scale or 60% marks (where CGPA is not awarded)  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 <b>OR</b> 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.**

## 9. AVAILABLE RESEARCH AREAS IN VARIOUS DEPARTMENTS

**Table 2. Research Areas offered in various Departments for admission in Ph. D**

<b>With Scholarship</b>	
<b>Department</b>	<b>Tentative Research Area of proposed Ph.D</b>
<b>Architecture and Planning</b>	Climate conscious Planning/ Design of settlements/habitats with energy conservation /sustainable practices / materials, etc
	Study of ecological areas in urban areas in India
	Planning for Infrastructure for Urban / Regional Development
	Urban Conservation in the areas of Architectural and Environmental Conservation.
	Settlement Planning and Urban Sustainability.
	Political Ecology and Urban Governance
	Planning for sustainable development.
	Planning for energy efficient development.
Environmental planning	



	Urban Benchmarking
	Application of System dynamics in Urban Planning
	Urban Management
	Vernacular architecture and traditional settlements
	Development in disaster prone areas
	Building regulations and sustainable built environment
	Impacts of Urbanization on Vulnerability of Slums
	Sustainable Housing
	Impacts of Planning Models on Urban Planning
	Assessment and Optimization of Building Envelope Design
	Urban Design for Architectural Design Appreciation
	Evaluation of Indoor Spaces
	Urban Infrastructure Planning and Management
<b>Chemical Engineering</b>	Process Intensification of Dividing Wall Column
	Wastewater treatment by Advanced Oxidation Process: Parametric Optimization & Kinetic study
	Nanostructured Materials for Environmental Catalytic Application
	Extraction/Synthesis of chemicals for water and waste water treatment
	Development of Nanostructured catalyst and its application for wastewater treatment
	Study on Organometallics and their Applications in Material Science and Drug Discovery
	Synthesis of valuable products using marble waste slurry and carbonation of industrial wastes
	Development of heterogeneous catalysts for the production of oxygenated fuel additive
	Advanced oxidation processes (AOP's) for the treatment of non-biodegradable wastewater
	Nanocomposite membranes for industrial gas separation applications
	Treatment of inorganic ions from wastewater using functionalized resin
	Nano-composite based food packaging materials
	Study of Separation process in Microchannels-High Throughput operations
	Cavitation based advanced Process Intensification Techniques for synthesis of tailor made nanostructured materials
	Electrochemical biosensor to assess the level of antioxidants and active oxygen species a system
	Studies on synthesis of reactive adsorbent (s) from waste solid (s) for removal of bio-refractory contaminants
	Molecular dynamics investigations of self-assembly of nanostructures for novel materials development
	Separation of Multicomponent system by divided wall column
	bioethanol Production from Biomass/Cellulosic materials
	Synthesis of novel catalyst for conversion of Green-house gas (CO <sub>2</sub> ) into methanol and value-added product
<b>Chemistry</b>	Isolation & Nanoencapsulation of Bioactive & Cytotoxic molecules from Medicinal plants.
	Synthesis and Characterization of Metallic Nano compounds of potent Biological & Industrial importance

	Design and synthesis of Sustainable Adsorbents for Removal of Radionuclides From Water
	Bioactive Heterocycles to Drug Candidate–Practical Synthetic Approaches From Bench-Side to Bed-Side.
	Design and development of Ferrocene based molecular probes consisting of extended conjugated system
	Layered 2D Materials for Wearable Electronics
	Matrix isolation IR spectroscopic study of atmospherically important weakly bound molecular complexes
	Stereoselective assembling of Biological relevant molecules employing Greener and Novel techniques
	Nanomaterial based Clean Energy Devices
	Green nanomaterials for industrial applications
	Supramolecular gel for water remediation
	Greener approach for the preparations of bio-active heterocyclic molecules from unsaturated organic compounds
<b>Centre for Energy and Environment</b>	Adaptive thermal comfort
	Energy efficiency in buildings
	Power Systems Forecasting
	Data Analytics for power systems operation
	Demand response aggregation for ancillary services
	System Operation with Electric Vehicle Integration
	Anaerobic digestion process monitoring, control, bioenergetics and modelling.
	Biomass conversion to energy and high value chemicals
	Building integrated solar Photovoltaic system for net zero energy building
	Battery energy storage system for EV
	Battery modeling and fault analysis
	Battery recycling
	Study of Solar Photovoltaic systems
	Study of Small/Micro Wind energy systems
	Study of hybrid energy systems
	Low energy cooling
	Battery thermal management
Multi-energy vector integration for future power sector	
Virtual Energy Storage System for Smart Grids	
<b>Civil Engineering</b>	Estimation and Remediation Techniques in Geo-Environmental Applications
	Studies in Energy Geotechnics
	Design and operation of constructed wetlands
	Design and operation of constructed wetlands
	Geo Polymer Concrete
	Alternate Building Material Using Waste
	Use of Solid Waste Materials as Aggregate in Concrete
	Fibre Reinforced Concrete
	Use of Solid Waste Materials in Roads
	Advance material in pavement construction
	Pavement performance Evaluation utilization and using New Technology
Soil stabilization using waste materials.	

Soil stabilization using reinforcing materials.
Application of Geosynthetics.
Behaviour of randomly distributed natural fiber reinforced soils.
Characterisation of desert soils with special reference to rajasthan.
Strengthening of desert soils using natural vegetatives found in these soils.
Use of Hyperspectral remote sensing data for water resources management and climate change studies
Conceptual design of structures using artificial intelligence
Optimization of structures using genetic algorithm or other technique
Waste material utilization from industries in building
Analysis of accident data and upgrading the geometric design of Highways using various Models.
Evaluation of modified Binder (Nano and Polymer modified binder)
Recycled waste material as a replacement in Cement production
Waste material utilization in diverse structural elements
Climate change impacts on hydrology and water resources.
Numerical modelling and optimization for planning of groundwater resources
Indoor Air Quality and Health
Source Apportionment Studies for Particulate matter (PM)
Performance Based Plastic Design of RC structures
Hydroelastic Analysis of VLFS.
Seismic Vulnerability of Structure on Hill slope
Performance Based Seismic Design of Geo-structure
Development of Seismic Capacity Envelope of Foundation on Hill Slope
Seismic Fragility of Mountain Tunnels
Structural Risk assessment and Its Impact on Environment
Computational Hydraulics
Modelling of Shallow Water Flows
Computational and Experimental Hydrodynamics
Evaluation of structural response of jointed concrete slabs
Investigation on properties of two stage concrete
Evaluation of structural response of concrete pavement slabs
Material flow in Environmental Engineering
Waste treatment/ management
Analysis of Foundation resting near sloping ground.
Constitutive and Numerical modelling of saturated and unsaturated soils.
Soil erosion assessment and sediment yield of a river system.
Sustainable management of irrigation water
Impact assessment of climate change on agriculture.
Ground Improvement methods with the application of Alternate Materials
Experimental/ Mathematical Modeling of Geosynthetics reinforced Earth Structures
Membrane separation processes
Advanced oxidation processes for wastewater treatment

	Land use land cover changes and its implications on Climate & human health
	Land use land cover change modelling using agent based modelling
	Automatic target detection using satellite images and AI
	GIS bases earthquake risk assessment and posterization for Indian cities
<b>Computer Science &amp; Engineering</b>	Intelligence at Edge Networks
	Next Generation Advanced High Speed Networks
	Issues and Protocols of Heterogeneous 5/6G Network
	Blockchain & Cyber Security
	Internet of Everything (IoE)
	AI, ML Applications in Data Analytics
	Next generation Vehicular Ad Hoc Networks
	Blockchain and SDN-based security solutions for Internet of Things applications
	Cyber Security
	Android/Windows/Linux Malware Analysis,
	Threat analysis of IoT devices,
	Darkweb & Cryptocurrency abuses,
	Pattern recognition, adversarial Machine Learning
	Applications of Graph Neural Networks (GNNs)
	Social Network Analysis using Graph Theory
	Artificial Intelligence, Machine Learning, Soft Computing, Nature Inspired Intelligence, Optimization algorithms, Hybrid Intelligent Systems, Image Processing.
	Design of an Automatic tool to diagnose diseases in crops with IOT
	Deep Packet Inspection for Network Traffic Type
	Browser's Security Analysis and Vulnerability Assessment
	Hardware Trojans
	Dark web exploration
	Aerial Image analysis
	Buried Object Detection
	Information Extraction in Medical Text
	Moving Object Detection/recognition from Aerial View
	Multi Model Machine Learning
Imbalance learning in Software fault prediction	
Medical Image Analysis	
Machine and Deep Learning	
<b>Electrical Engineering</b>	Power quality improvement
	AC-DC converters
	Data Driven modeling of Energy Assets
	Data Driven Power Flow of modern distribution systems
	Applications of AI/Control in Power systems.
	Hybrid AC/DC Microgrid/ Distribution Grid: Steady state and short-circuit analysis
	Smart grid
	Renewable energy/Microgrids
Electric Vehicles	

Emerging Trends in Planning and Economics of Deregulated Power Systems
Application of Computational Intelligence Techniques for Operation and Control of Transmission and Distribution Systems
Deregulated Power Systems
Power System Economics
Power System Economics
Power system analysis & optimization
Game theory applications to power systems
Power Systems Forecasting
Data Analytics for power systems operation
Demand response aggregation for ancillary services
System Operation with Electric Vehicle Integration
Computational Intelligence in Smart Grid
Nature inspired algorithms for Energy Management Systems
Machine Learning in Bio-Medical Applications
Intelligent Robotics
Multilevel inverters
Grid-connected photovoltaics
Development of EV charging station
Converters for EV Chargers and Micro grid
Nonlinear systems
Networked control systems
Estimation and control of uncertain systems
PWM Techniques for converters
Control of Grid-connected converters
Power Quality
Grid Integration of Renewable Energy Systems, Electrical Vehicles, Cyber-Physical Energy Systems, Sliding Mode Control
Economy in Distribution system, operation and planning.
Power system operation and control
Power Electronics Converters for Power quality Improvement
Control strategies for Grid-tied PV system for Electrical distribution system
Investigation on Multilevel Inverter for Power Quality Improvement
Signal applications in Power system, Power Electronics
Artificial Intelligence in Power system optimization
Renewable Integration in Power Systems, Electric Vehicle (EV) Integration to Grid, Smart Grid, Power System Dynamics and Voltage Stability Studies, FACTS Devices
Renewable Energy Systems and their Optimization
Integration of Renewable Energy in Power System and challenges
Power System Analysis & Optimization
Applications of AI in Power Systems
Electric Vehicles and Smart Grid
Primary Frequency Response Mechanism
Multi Energy Vector Modelling for System Balancing
Long Term Energy Forecasting of Renewables
Synthetic Inertia Modelling for High Renewable Energy Systems

	Power System Operation and Control
	FACTS in Power Systems
	Power Systems Economics
	Integration of DG in Power Systems
<b>Electronics and Communication Engineering</b>	Modeling and Simulation of Emerging Devices
	Analog & Digital VLSI Design
	Nano Electronics Device Modeling and Simulation
	Biomedical System
	Development of Selfcare Medical device
	Computer Vision, Machine/Deep Learning, Biometrics
	IOT
	Meta-Surfaces and Meta Materials
	Antenna Design
	Frequency Selective Surfaces
	Multirate Signal Processing and its application
	Wireless Communication
	Electro optic modulator for visible light communication
	Multi and Many Objective Nature Inspired Clustering Algorithms and their applications
	Wideband Microstrip Antenna Structures
	Fabrication of Microelectronic Devices & Sensors
	Cognitive Approaches with applications to EDA, NLP etc.
	Radiation hardness in digital circuits and memory or in computation memory
	On Photonics and Optical Communication for 5G and 6G
	Communication Engg.
Wireless Network	
<b>Humanities and Social Sciences</b>	Development Economics
	Public Policy Impact Evaluation
	Higher Education
	Gender Analysis
	Technology Diffusion
	Rural Economics
	Economics of Well Being
	Teaching English as a Second Language
	Feminism and Gender in language and literature
	Trends in modern/contemporary fiction/drama
	Indian Writing in English
	Literature of the Diaspora
	Exploring Trends in Indian Writing in English
	Critical Analysis of Films
	Eco-critical Concerns in Literature
	Theme and Technique in Contemporary Fiction
	Perspectives in Feminist Literature
	Contemporary Indian Literature
	Aspects of English Language Teaching
	CALL/MALL in English Language Teaching
Language and Culture	

	Gender Study
	Science, Technology and Society
	Social Change and Development
	Health, Ageing and Well-Being
	Globalization, Media, Culture and Society
	Inequalities, Stratification and Exclusion
<b>Mechanical Engineering</b>	Development and analysis of low energy cooling solutions
	Surface Improvement of Metal 3 D Printed Parts
	In vitro analysis of bio-degradable implants
	Predictive Maintenance of Industrial Systems
	Fracture simulation of smart materials under thermo-mechanical loading
	Fault diagnosis of gearbox
	Multipass welding of thick plates
	Machining and tribology characteristics of polymer composites
	Machining and tribology characteristics of MMC
	Characterization, analysis and testing of flux fused novel alloy through arc welding processes
	Design and development of material for self-adjustable bone tissue using additive manufacturing techniques
	Circular economy in Industry 4.0
	Development, analysis and study of solar air heater and solar dryer
	Modelling and analysis to investigate fracture and failure of nanocomposites through simulations
	Industry 4.0 implementation in Indian Industry
	Development and mechanical Characterization of MMC
	Hybrid heat sinks for electronic heat dissipation
	Room air conditioning through regenerative heating
	Hybrid heat sinks for electronic heat dissipation
	Room air conditioning through regenerative heating
<b>Management Studies</b>	Behavior in online/digital environments
	Issues in Mobile payment system adoption
	AutoID techniques in management of supply chain
	Sustainable marketing strategies
	Consumer behavior in value co-creation
	Sustainable Development through Green HRM
	Human Resource Management and Environmental Performance
	OCB and Environmental Performance
	Green HRM,
	Sustainable HRM
	Risk management in Financial Institutions
	Fintech and Banking services
	Financial issues in Family Business Management
	Sustainable Business Strategies
	Firm Characteristics and Sustainability Performance
	Positive Psychology and Employee Behavior
	HR Analytics/Adoption of Big Data and Organizational Performance
	Financial Distress and Default
Financial and Non-financial disclosures,	

	Banking reforms
	Earnings Management
	Corporate Governance
<b>Mathematics</b>	Numerical Investigations of Ordinary Differential Equations
	Computational Scheme for Partial Differential Equations
	Blood Flow With Magnetic Effect
	Magnetohydrodynamic Boundary Layer Flow of Nanofluid
	Mathematical Modeling of some Problems in Biofluid Flow
	Hydrodynamic stability of fluid flows.
	Mathematical and numerical analysis of convective flows.
	Stability and bifurcation in dynamical systems.
	Computational study of nonlinear PDEs.
<b>Material Research Centre</b>	Graphene based composite materials for energy applications.
	Room temperature composite gas sensor with high sensitivity
	Metal organic nanostructures for environmental applications.
	Development of hybrid nanomaterials as artificial enzymes.
	Luminescent carbon nanostructures for catalytic and biological applications
	Thermoelectric materials based on Double half huesler alloys
	2D Materials for thermoelectric applications
	Development of Biomass derived carbon materials for redox flow battery.
	Efficient piezoelectrocatalysts for hydrogen generation and waste water treatment
	Novel Nanocomposites as Sustainable Adsorbents for Removal of Radionuclides From Water
<b>Metallurgical and Materials Engineering</b>	Synthesis and characterization studies of cupric oxide –Graphene oxide coating on aluminum substrate
	Development of Novel PolymerMatrix Nanocomposites for Biomedical Applications
	Synthesis and characterization of CuNiFeCrMo-Graphene oxide Nano composites coating on CFRP-Carbon Fiber Reinforced Plastics- /Composites
	Synthesis and characterization of bulk consolidatedAl-Li based alloy produced using powder metallurgyroute
	Process parameter Optimization and Utilization of Direct Reduced Iron(DRI) as energy material
	Synthesis and process parameter studies of Graphite based metal composite for Automotive application
	Development of new Al-Li alloys and composites for energy storage applications
	Welding of dissimilar metals
	High temperature creep resistant steels with high chromium content for power plant application.
	Metal and ceramic nano composite plasma sprayed coating with improved mechanical and tribological properties at RT and HT
	Lead (Pb)-free Perovskite Solar Cells
	Development of nano-crystalline soft magnetic alloy film.
	Fabrication of super-hydrophobic layer by electro-deposition technique.
	Creep-fatigue interaction behavior of a b-Titanium alloy.



	Deformation Micro-mechanisms of a polycrystalline Ni-base superalloy under relevant operating condition
	Development of light weight alloys for future energy efficient automotive applications
<b>Physics</b>	Fabrication of self-supported polymer nanocomposite membranes for gas separation
	Development of flexible and stretchable gas sensors
	Polymeric membranes as a separator for battery and storage devices
	Physics beyond the Standard Model
	Extraction and Sensing of Bioactive Medicinal Constituents from Ayurvedic Herbs.
	Tuning the Properties of Topological Insulators by Ion Implantation
	Development of nanomaterials for supercapacitor applications
	High-efficiency Nanomaterials for Hydrogen generation.
	Fabrication and characterization of efficient polymer-based OLEDs
	Development of novel electronic/photonic materials based on polymers and organic-inorganic hybrids
	Resurgent Asymptotics in Matrix Models
	Skyrmions in relativistic quantum mechanics
<b>National Centre for Disaster Mitigation &amp; Management</b>	Seismic Protection using Base Isolation
	Earthquake Resisting Design of RC Structures
	Seismic Analysis of Concrete Dams

<b>Without Scholarship</b>	
<b>Department</b>	<b>Tentative Research Area of proposed Ph.D</b>
<b>Architecture and Planning</b>	Climate conscious Planning/ Design of settlements/habitats with energy conservation /sustainable practices / materials, etc
	Energy conscious / efficient Urban Planning/ Design
	Universal Design
	Planning for sustainable development.
	Planning for energy efficient development.
	Environmental planning
	Urban Benchmarking
	Application of System dynamics in Urban Planning
	Urban Management
	Vernacular architecture and traditional settlements
	Development in disaster prone areas
	Building regulations and sustainable built environment
	Quality of life and urban sustainability
	Cost efficient Architecture and slum rehabilitation
	Urban infrastructure planning and sustainability
	Urban Growth Management and land use
	Traditional Knowledge Systems
	Impacts of Urbanization on Vulnerability of Slums
Building Construction Technology and Management	
Evaluation of Indoor Spaces	

	Visual Communication in Architecture
	Planning for Disaster Resilience
	Construction Project Management
<b>Chemical Engineering</b>	Development of Novel electrodes for wastewater treatment by electrochemical methods.
	Study of membrane fouling used in water and waste water treatment
	Extraction and Separation of Natural Products
	Industrial water treatment using advanced oxidation process.
	Thermodynamic property evaluation for novel solvents for separation process
	Extraction and Separation of Natural Products
	Synergistic effect of plastic on biomass pyrolysis
<b>Chemistry</b>	Isolation & Nanoencapsulation of Bioactive & Cytotoxic molecules from Medicinal plants
	Synthesis and Characterization of Metallic Nano compounds of potent Biological & Industrial importance
<b>Centre for Energy and Environment</b>	Polymer waste recycling and management
	Study of Solar Photovoltaic systems
	Study of Small/Micro Wind energy systems
	Study of hybrid energy systems
	Multi-energy vector integration for future power sector
	Virtual Energy Storage System for Smart Grids
<b>Civil Engineering</b>	Estimation and Remediation Techniques in Geo-Environmental Applications
	Studies in Energy Geotechnics
	Geo Polymer Concrete
	Alternate Building Material Using Waste
	Use of Solid Waste Materials as Aggregate in Concrete
	Fibre Reinforced Concrete
	Use of Solid Waste Materials in Roads
	Soil stabilization using waste materials.
	Soil stabilization using reinforcing materials.
	Application of Geosynthetics.
	Behaviour of randomly distributed natural fiber reinforced soils.
	Characterisation of desert soils with special reference to rajasthan.
	Strengthening of desert soils using natural vegetatives found in these soils.
	Conceptual design of structures using artificial intelligence
	Optimization of structures using genetic algorithm or other technique
	Waste material utilization from industries in building
	Highway failure and life cycle assessment and maintenance modeling.
	Performance Evaluation of RAP for Sustainable Flexible Pavement.
	Production of green concrete by using recycled material
	Development of recycled concrete using waste material
Assessment of hydrology and water resources under climate change employing soft computing techniques.	
Seismic Vulnerability of Structure on Hill slope	
Performance Based Seismic Design of Geo-structure	
Development of Seismic Capacity Envelope of Foundation on Hill Slope	

	Seismic Fragility of Mountain Tunnels
	Structural Risk assessment and Its Impact on Environment
	Evaluation of structural response of jointed concrete slabs
	Investigation on properties of two stage concrete
	Evaluation of structural response of concrete pavement slabs
	Beneficial use of recycled material in concrete
	Demolished concrete recycling system based on performance evaluation of waste materials
	Application of domestic and industrial waste materials in concrete
	Ground Improvement methods with the application of Alternate Materials
	Experimental/ Mathematical Modeling of Geosynthetics reinforced Earth Structures
	Membrane separation processes
	Advanced oxidation processes for wastewater treatment
	Automatic target detection using satellite images and AI
	GIS bases earthquake risk assessment and posterization for Indian cities
<b>Computer Science Engineering</b>	Android/Windows/Linux Malware Analysis,
	Threat analysis of IoT devices,
	Darkweb & Cryptocurrency abuses,
	Pattern recognition, adversarial Machine Learning
	Applications of Graph Neural Networks (GNNs)
	Social Network Analysis using Graph Theory
	Artificial Intelligence, Machine Learning, Soft Computing, Nature Inspired Intelligence, Optimization algorithms, Hybrid Intelligent Systems, Image Processing.
	Social Network and behavior analysis, WSN
	Design and implementation of pollite chatbot using NLP in cross languages
	Deep Packet Inspection for Network Traffic Type
	Browser's Security Analysis and Vulnerability Assessment
	Hardware Trojans
	Dark web exploration
	Aerial Image analysis
	Buried Object Detection
	Medical Image Analysis
	Machine and Deep Learning
<b>Electrical Engineering</b>	Data Driven modeling of Energy Assets
	Data Driven Power Flow of modern distribution systems
	Applications of AI/Control in Power systems.
	Hybrid AC/DC Microgrid/ Distribution Grid: Steady state and short-circuit analysis
	Smart grid
	Renewable energy/Microgrids
	Electric Vehicles
	Deregulated Power Systems
	Power System Economics
	Computational Intelligence in Smart Grid
	Nature inspired algorithms for Energy Management Systems

	Machine Learning in Bio-Medical Applications
	Intelligent Robotics
	Development of EV charging station
	Converters for EV Chargers and Micro grid
	Grid Integration of Renewable Energy Systems, Electrical Vehicles, Cyber-Physical Energy Systems, Sliding Mode Control
	Power Electronics Converters for Power quality Improvement
	Control strategies for Grid-tied PV system for Electrical distribution system
	Investigation on Multilevel Inverter for Power Quality Improvement
	Signal applications in Power system, Power Electronics
	Artificial Intelligence in Power system optimization
	Renewable Energy Systems and their Optimization
	Integration of Renewable Energy in Power System and challenges
	Power System Analysis & Optimization
	Applications of AI in Power Systems
	Electric Vehicles and Smart Grid
<b>Electronics and Communication Engineering</b>	Biosensor with Emerging Devices
	Analog & Digital VLSI Design
	Nano Electronics Device Modeling and Simulation
	Computer Vision, Machine/Deep Learning, Biometrics
	Digital Filterbank
	Multiratefilterbank and applicationm
	Fabrication of Microelectronic Devices & Sensors
	Cognitive Approaches with applications to EDA, NLP etc.
	Wireless Communication
	MEMS
<b>Humanities and Social Sciences</b>	Development Economics
	Public Policy Impact Evaluation
	Higher Education
	Gender Analysis
	Technology Diffusion
	Rural Economics
	Economics of Well Being
	Teaching English as a Second Language
	Feminism and Gender in language and literature
	Trends in modern/contemporary fiction/drama
	Indian Writing in English
	Literature of the Diaspora
	Exploring Trends in Indian Writing in English
	Critical Analysis of Films
	Eco-critical Concerns in Literature
	Theme and Technique in Contemporary Fiction
	Perspectives in Feminist Literature
	Contemporary Indian Literature
	Aspects of English Language Teaching
	CALL/MALL in English Language Teaching
Language and Culture	

	Gender Study
	Science, Technology and Society
	Social Change and Development
	Health, Ageing and Well-Being
	Globalization, Media, Culture and Society
	Inequalities, Stratification and Exclusion
<b>Mechanical Engineering</b>	Electro Chemical Discharge Machining of Hybrid CK-FRP composites
	Semi-permeable crack analysis in piezoelectric materials
	Noise and vibration analysis of gearbox for fault diagnosis
	Machining and tribology study of coatings over composites
	Design ,development and characterization of biocompatible materials
	Hybrid heat sinks for electronic heat dissipation
	Room air conditioning through regenerative heating
	Hybrid heat sinks for electronic heat dissipation
	Room air conditioning through regenerative heating
<b>Management Studies</b>	Behavior in online/digital environments
	Issues in Mobile payment system adoption
	AutoID techniques in management of supply chain
	Sustainable marketing strategies
	Consumer behavior in value co-creation
	Sustainable Development through Green HRM
	Human Resource Management and Environmental Performance
	OCB and Environmental Performance
	Sustainable Business Strategies
	Firm Characteristics and Sustainability Performance
	Future of Management Education in the Post-Covid Era
	Financial Distress and Default
	Financial and Non-financial disclosures,
	Banking reforms
	Earnings Management
Corporate Governance	
<b>Mathematics</b>	Numerical Investigations of Ordinary Differential Equations
	Computational Scheme for Partial Differential Equations
	Blood Flow With Magnetic Effect
	Magnetohydrodynamic Boundary Layer Flow of Nanofluid
	Mathematical Modeling of some Problems in Biofluid Flow
<b>Material Research Centre</b>	Design of graphene derived strong and tough biomimetic superalloy for extreme environment
	Simulating the dynamics of granular flow in screw conveyors and other transport devices through the discrete element method.
	Fabrication and characterization of efficient polymer-based OLEDs.
	Development of novel electronic/photonic materials based on polymers and organic-inorganic hybrids.
	Self-assembled polymer nanostructured thin films.
<b>Metallurgical and Materials Engineering</b>	Additive Manufacturing of High-Performance Polymer Matrix Nanocomposites.
	Study on Flexible Nanocomposite Based Nanogenerators for Energy Harvesting Application

	Diffusion Bonding of CP Titanium and Aluminium Alloys
	Development of Interpenetrated Phase Nano Composites for enhanced toughness applications
	Reduction kinetics of iron ore – coal composite pellets
	3 <sup>rd</sup> Generation Advanced High Strength Steels for Automotive Applications
	Plasma sprayed GNP/CNT reinforced ceramic coatings
	Novel Materials for Cathode Buffer Layers of Organic Solar Cells
	Studies on the microstructural evolution and deformation behavior of Ti-6Al-4V alloy
	Understanding Severe plastic deformation of materials for high performance applications
<b>Physics</b>	Magnetotransport Studies on Topological Superconductors.
	Development of Metal Hydrides for Hydrogen Compressor Applications.
	Self-assembled polymer nanostructured thin films
	Development of novel bio-electronic interfacial materials with enhanced electrical properties and biocompatibility
	Gross-Neveu model phase diagram
	Extending the Gross-Witten-Wadia model and its relation to QCD
<b>National Centre for Disaster Mitigation &amp; Management</b>	Seismic Protection using Base Isolation
	Seismic Design of Steel Structures
	Seismic Control of Structures

<b>PhD Topic (With own scholarships (NET/JRF etc.))</b>	
<b>Department</b>	<b>Tentative Research Area of proposed Ph.D</b>
<b>Chemical Engineering</b>	Water/wastewater treatment by advanced oxidation process
	CO <sub>2</sub> Valorization over Nanostructured Catalysts
	Synthesis of PCC/BaS /Calcium orthophosphates-nano particles
	Liquid-liquid operations in parallel microchannels.
	Reactive Extraction Studies in Microchannels
	Studies on removal of emerging pollutants in a bubble column reactor
	Development of Intelligent Control of Heat Integrated Reactive Dividing Wall Column for Synthesis of Methyl Acetate
<b>Chemistry</b>	Isolation & Nanoencapsulation of Bioactive & Cytotoxic molecules from Medicinal plants
	Synthesis and Characterization of Metallic Nano compounds of potent Biological & Industrial importance
	Development of Biomass based green nanomaterials for Water Remediation
	Doped Carbon Materials for multiple Application
	Green nanocomposite for Pollutant Detection
	Transition-Metal-Free, Organocatalytic, Oxidant-Promoted C <sub>(sp)<sup>2</sup></sub> -H bond activation reactions: Synthesis, Methodology Development, Chemistry and its Practical Applications
	Greener pathways for the synthesis of bioinspired heterocyclic molecules.

	Photocatalytic Application of Doped Nanocarbons
	Investigation of atmospherically important heterogeneous reactions using matrix isolation IR spectroscopy
	Stereoselective Synthesis of Carbohydrate scaffolds of Medicinal importance.
	Organic Materials based electrocatalyst to harvest Sun Light.
	Organic-Inorganic hybrid materials for artificial photosynthesis
	Metal organic framework for Environmental remediation
	Transition metal based nanostructures for environmental applications
	Nanostructured Catalyst for Different Chemical Reactions
	Functional Nanomaterials for Environmental Remediation
	Transition metal catalysts for organic transformation reactions
	Development of multifunctional nanocomposites for water treatment
	Engineered nanomaterials: Synthesis and use in water remediation
<b>Civil Engineering</b>	Estimation and Remediation Techniques in Geo-Environmental Applications
	Studies in Energy Geotechnics
	Rejuvenating Agents with RAP in HMA
	Recycled material for Cement Concrete Roads
	Study of hydrological extremes under changing climate.
<b>Computer Science Engineering</b>	Security in cloud and IoT
	Security using machine learning for advanced networks
	Medical Image Analysis
	Machine and Deep Learning
<b>Electrical Engineering</b>	Data Driven modeling of Energy Assets
	Data Driven Power Flow of modern distribution systems
	Applications of AI/Control in Power systems.
	Hybrid AC/DC Microgrid/ Distribution Grid: Steady state and short-circuit analysis
	Emerging Trends in Planning and Economics of Deregulated Power Systems
	Application of Computational Intelligence Techniques for Operation and Control of Transmission and Distribution Systems
	Computational Intelligence in Smart Grid
	Nature inspired algorithms for Energy Management Systems
	Machine Learning in Bio-Medical Applications
Intelligent Robotics	
<b>Electronics and Communication Engineering</b>	Computer Vision, Machine/Deep Learning, Biometrics
	Wideband Microstrip Antenna Structures
<b>Humanities and Social Sciences</b>	Development Economics
	Public Policy Impact Evaluation
	Higher Education
	Gender Analysis
	Technology Diffusion
	Rural Economics
	Economics of Well Being
	Teaching English as a Second Language
Feminism and Gender in language and literature	

	Trends in modern/contemporary fiction/drama
	Indian Writing in English
	Literature of the Diaspora
	Exploring Trends in Indian Writing in English
	Critical Analysis of Films
	Eco-critical Concerns in Literature
	Theme and Technique in Contemporary Fiction
	Perspectives in Feminist Literature
	Contemporary Indian Literature
	Aspects of English Language Teaching
	CALL/MALL in English Language Teaching
	Language and Culture
	Gender Study
	Science, Technology and Society
	Social Change and Development
	Health, Ageing and Well-Being
	Globalization, Media, Culture and Society
	Inequalities, Stratification and Exclusion
<b>Management Studies</b>	Behavior in online/digital environments
	Issues in Mobile payment system adoption
	Auto ID techniques in management of supply chain
	Sustainable marketing strategies
	Consumer behavior in value co-creation
	Sustainable Development through Green HRM
	Human Resource Management and Environmental Performance
	OCB and Environmental Performance
	Green HRM,
	Sustainable HRM
	Risk management in Financial Institutions
	Fintech and Banking services
	Financial issues in Family Business Management
	Sustainable Business Strategies
	Firm Characteristics and Sustainability Performance
	Future of Management Education in the Post-Covid Era
	Positive Psychology and Employee Behavior
	HR Analytics/Adoption of Big Data and Organizational Performance
	Financial Distress and Default
	Financial and Non-financial disclosures,
Banking reforms	
Earnings Management	
Corporate Governance	
<b>Mathematics</b>	Numerical Investigations of Ordinary Differential Equations
	Computational Scheme for Partial Differential Equations
	Blood Flow With Magnetic Effect
	Magnetohydrodynamic Boundary Layer Flow of Nanofluid
	Mathematical Modeling of some Problems in Biofluid Flow
	Hydrodynamic stability of fluid flows.



	Mathematical and numerical analysis of convective flows.
	Stability and bifurcation in dynamical systems.
	Computational study of nonlinear PDEs.
<b>Material Research Centre</b>	Development of fluorescent nanomaterials for detection of ions and small biomolecules
	Supramolecular metallogels and nanoscale MOFs for multifunctional applications
	Functional and structural characterization of thermoelectric material synthesized by selective laser melting.
	Improving thermoelectric properties of double half hoesler using doping and nanostructuring.
	Flexible and Switchable Graphene-Based Bioelectronics Interfaces
	Development of nanostructured biosensors.
	Simulating polymer dynamics under the dilute, semi-dilute and concentrated regimes via mesoscopic simulation.
	OLED/OPD integrated chemical and biological sensors
	Development of efficient electrolytes for zinc air batteries
<b>Metallurgical and Materials Engineering</b>	Tandem Perovskite Solar Cells
<b>Physics</b>	Graphene based composite materials for energy applications
	Room temperature composite gas sensor with high sensitivity
	Development of Ultrasensitive Electrochemical Sensors.
	Si-based Nanostructures for Supercapacitors and High-Performance Batteries
	Materials for electrochemical energy storage
	Development of nanomaterials for photoelectrochemical water splitting
	OLED/OPD integrated chemical and biological sensors
	Flexible and Switchable Graphene-Based Bioelectronics Interfaces
	Development of nanostructured biosensors
	Fabrication of bio-implantable nanostructures with electroactive polymers
	Interfaces in polymer and small molecule based solar cells
	Non-perturbative Quantum Field Theory
Resurgence in Quantum Field Theory	

<b>PhD Topic without scholarship (Only for Research personnel presently serving in various projects in MNIT Jaipur)</b>	
<b>Department</b>	<b>Tentative Research Area of proposed Ph.D</b>
Civil Engineering	Utilization of Industrial Waste in sustainable Concrete Pavement and their long-term Impact
	Study on Bitumen pavement performance using different waste and locally available material
	Characteristics of concrete produced from waste construction materials
	Concrete containing waste-based materials under active confinement
Computer Science Engineering	Developing a face aging models using Deeplearning
	Image Tempering Detection
	Touchless Multimodal Biometrics

## 10. GENERAL INFORMATION

- (a) The institute reserves the right not to run any particular programme, if the number of students in that programme is less than the minimum number specified by the Institute at the time of admission.
- (b) The institute reserves the right to change its statutes and regulations relating to academic programmes and the modalities of admission without prior notice.
- (c) There is no age restriction for postgraduate programme.
- (d) 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.

The institute reserves the right to alter the number of seats in any programme without any prior notice.

### Notes:

- (1) 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.
- (2) 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.
- (3) The requisite certificate for SC/ST/OBC 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 certificate should have been issued after **March 31, 2020**.
- (4) 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.
- (5) **The last date for online application is 20/12/2020 (till 5.00 PM)**

## 11. FEES

Updated Fees structure will be available on Institute website ([http://mnit.ac.in/academics/fee\\_structure.php](http://mnit.ac.in/academics/fee_structure.php))

## 12. 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.

## 13. 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.

## 14. IMPORTANT INSTRUCTIONS

- 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 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 you in the application form, hence fill it 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 will not be accepted under any circumstances.
- f. **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. Documents/Attested photocopies of the following certificates have to be brought along with the Application Form:-
  - 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 of the Institute from where the candidate has graduated (For Full-time course applicants only).
  - v. Character Certificate from two persons of repute where the candidate has been residing for the last two years (For part-time course applicants only).
  - vi. Certificate from the employer on the official stationary and rubber stamp of the organization/institution (For full-time sponsored/part-time candidates only).
  - vii. **A statement of purpose (only for those who are applying for Ph.D.) including research idea in not more than 300 words MUST be attached with application. This SOP will have due weightage during process of screening/selection. This has to be compulsorily filled in the online application.**
- 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.

### **Important Dates**

**Start Date of Online Application :- 07/12/2020**

**Last Date of submission of Online Application form :- 20/12/2020 (till 5.00 PM)**

**Provisional list of shortlisted/eligible candidates for online written test/interview will be displayed on Institute website by 24/12/2020.**

**Date of online written test :- 29/12/2020 to 30/12/2020**

**Date of online Interview of the shortlisted candidates :- 31/12/2020 to 01/01/2021**

**Final Result :- 08/01/2021**

**ANNEXURE I**

**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.)**

**ANNEXURE II**

**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 B.E./B.Tech./B.Sc./M.Sc.....degree (strike out the non-applicable ones and write in the blank if the degree is not mentioned) 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: .....  
Date:.....

Signature of the Principal/Dean/Registrar/  
Dy. Registrar/Proctor/Administrative  
Officer of the institute last attended with seal

**ANNEXURE III**

**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 B.E./B.Tech./B.Sc./M.Sc. .... (Strike out the non-applicable ones and write in the blank if the degree is not mentioned) 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

**SPONSORSHIP CERTIFICATE**  
(Required from Full-time Sponsored Candidates only)

(This should be typed on the letterhead of the Sponsoring Organization and enclosed with application for admission)

To,  
The Director  
MNIT, Jaipur  
Sub: Sponsoring of an employer for M.Tech. Programme.

We hereby Sponsor the candidature of Mr./Ms. .... who is working in this organization for the last .....years and is presently holding the rank/position of ..... for joining his/her M. Tech. programme in ..... at your Institute as a Full Time candidate in the Department of ..... with specialization in the following areas:

- 1.....
- 2.....
- 3.....

His/her conduct and character is good.

The Institution/Organization would relieve him/her immediately for joining the above course, if selected for admission. We shall fully relieve him/her duties in the organization to devote sufficient time for M. Tech./M. Plan..

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

\*Candidate should also give a separate undertaking that he would fulfill the attendance requirements of all the courses undertaken by him for fulfillment of the course pursued.

**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 4 semesters for Part-Time M.Tech. programme/ 3 semesters for part-time Ph.D. programme, while total duration is expected to be 3 years for part time M.Tech./ 5 years for part-time Ph.D.

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

Signature of Head of the Institution/Organization with seal  
 Name .....  
 Designation .....

## Annexure VII

## FORMAT FOR OBC [NCL] CERTIFICATE

TO BE PRODUCED BY OTHER BACKWARD CLASSES

[This certificate MUST have been issued on or after 1<sup>st</sup> April 2020]

**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) in the  
\_\_\_\_\_ 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 \_\_\_\_\_  
Date \_\_\_\_\_

Signature \_\_\_\_\_  
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 1<sup>st</sup> 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.

**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, 2020.

**Place:**

**Signature of the Candidate**

**Date:**

**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 & Diu) Scheduled Castes Order, 1968;

\*The Constitution (Goa, Daman & Diu) 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 \_\_\_\_\_

Date \_\_\_\_\_

Signature \_\_\_\_\_

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 <sup>1st</sup> 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: \_\_\_\_\_

**DISABILITY CERTIFICATE FORMAT - II**

**{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.

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

6. Signature and seal of the Medical Authority:

<b>Name and Seal of Member</b>	<b>Name of Seal of Member</b>	<b>Name and Seal of the Chairperson</b>

**DISABILITY CERTIFICATE FORMAT - III**

**{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		

Contd.

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:	<b>Ph.D.</b>
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  
Email Address  
Mobile No.

Dated:

### Contact Details of Head of Departments

<b>S. No.</b>	<b>Academic Department</b>	<b>Email</b>	<b>Phone Number (STD Code 0141)</b>
1	Architecture & Planning	hod.arch@mnit.ac.in	2591164
2	Center for Energy & Environment	hod.cee@mnit.ac.in	2713211
3	Chemical Engg.	hod.chem@mnit.ac.in	2299711
4	Chemistry	hod.chy@mnit.ac.in	2521635
5	Civil Engg.	hod.ce@mnit.ac.in	2713379
6	Computer Science & Engg.	hod.cse@mnit.ac.in	2713418
7	Electrical Engg.	hod.ee@mnit.ac.in	2713398
8	Electronics & Communication Engg.	hod.ece@mnit.ac.in	2713222
9	Humanities & Social Science	hod.hum@mnit.ac.in	2713396
10	Management Studies	hod.dms@mnit.ac.in	2713345
11	Mathematics	hod.maths@mnit.ac.in	2713213
12	Mechanical Engg.	hod.mech@mnit.ac.in	2713330
13	Metallurgical & Materials Engg.	hod.meta@mnit.ac.in	2713140
14	Physics	hod.phy@mnit.ac.in	2713114
15	National Centre for Disaster Mitigation and Management	hod.ncdmm@mnit.ac.in	2713551
16	Materials Research Centre	hod.mrc@mnit.ac.in	2713568