

# **INFORMATION BROCHURE**

for admission to

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

**EVEN SEMESTER**

(2019-20)



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

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

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**Application has to be filled online  
(Link available at [www.mnit.ac.in](http://www.mnit.ac.in)).**

**Start Date of Online Application :- 07/11/2019**

**Last Date of submission of Online Application form :- 21/11/2019**

**Provisional list of shortlisted/eligible candidates for written test/interview will be displayed on Institute website by 27/11/2019.**

**Date of written test :- 09/12/2019 to 11/12/2019**

**Interview of the shortlisted candidates in the respective department :- 10/12/2019 to 12/12/2019**

(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).*

## 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. Departmental screening of candidates under "Visvesvaraya PhD Scheme (Part Time)" of DeitY
    1. For Scrutiny
      - A) Minimum 60% marks OR equivalent CGPA throughout (X to PG)
    2. While evaluating performance for preparing merit along with other criteria e.g. Exp., Interview etc.
      - A) A weightage of not less 10% may be kept for publications in Journal/Conferences, and
      - B) A weightage of not less than 10% may be kept for marks obtained in screening test.
  - iv. **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 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 by Senate, for admission only to the 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. Additionally, the available seats are 05 for ECE, 05 for CSE, 03 for EE and 04 in SMDP-C2SD project (VLSI/Embedded Stream in department of ECE) under Visvesvaraya PhD scheme (Part Time PhD). A candidate has to EXPLICITLY indicate, *whether he/she wishes to be considered for this*

*scheme, in addition to normal process of admissions.* Once selected in this scheme, a student is entitled for following:

- a) One time incentive from Ministry of Electronics & IT, Govt. of India, of Rs. 2.5 lakhs for part time PhD candidate, ONLY at the time of completion.
  - b) Grant for attending international conference (outside India) on a case to case basis.
- iii. 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.
  - iv. In addition to the students admitted with financial assistance, students may also be admitted to the Ph.D. programmes on a self-financing basis.
  - v. 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.

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

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

Department	Minimum Educational Qualification
<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/

	<p>Production Engg.</p> <p>B.Tech./M.Tech. degree/ disciplines consistent with the research areas of the department.</p>
<b>Metallurgical &amp; Materials Engineering</b>	<p>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.</p>
<b>Physics</b>	<p>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:</p> <p>M.Sc. in Physics/Applied Physics/Engineering Physics/allied areas of Physics/interdisciplinary areas in physical sciences</p> <p>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</p>
<b>Centre for Energy and Environment</b>	<p>B.Tech./B.Arch. With post graduation in relevant discipline</p>
<b>National Centre for Disaster Mitigation and Management</b>	<p>Under Graduate: civil engineering/Architecture</p> <p>Graduate: Structural engineering/Earthquake Engineering or any other branch of civil/architectural Engineering</p>
<b>Management</b>	<p>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).</p>
<b>Materials Research Centre</b>	<p>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)</p> <p>Other Qualifications:</p> <ol style="list-style-type: none"> <li>1. M.Tech/ME or equivalent degree in Materials Science and Engineering, Metallurgical Engineering, Ceramics, Mechanical Engineering, Nanoscience, Polymer Technology, Electronics, Nanotechnology.</li> <li>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.</li> <li>3. M.Sc in Materials Science/Physics/Chemistry Polymer Technology, Electronics, Nanotechnology. Or equivalent Master's degree in allied areas.</li> </ol>

**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>Ph.D. topic likely to be available with scholarship</b>	
<b>Department</b>	<b>Topics</b>
Mechanical Engineering	Project Management and Scheduling, Intelligent Manufacturing
	Design and development of composites
	Welding of Dissimilar Metals
	Lean Manufacturing Enabled by Additive Manufacturing
	Design, development and optimization of ASAW process for SS304 weldment
	Application based solar dryer study
	Linkage design for rehabilitation exoskeletons and assistive devices
	Nodal Integration Immersed Boundary method for moving boundary flows
Electronics & Communication Engineering	Signal conditioning circuit, Mixed signal circuits. (VLSI)
	Sensors for IoT Applications (VLSI)
	MEMS (VLSI), Nano Devices (VLSI), Signal Processing (Communication)
	Design and Development of Biosensor(VLSI)
	Microelectronics devices and sensors (VLSI)
Metallurgical and Materials Engineering	Study on high performance nanocomposites for biomedical application.
	Electrical and mechanical properties of carbon nanotubes reinforced polymer nanocomposites
	Additive manufacturing - 3D printing in steels for structural applications
	Development of techniques for testing of mechanical properties with miniature size specimens for butt joints.
	Synthesis and Characterization of Graphene Based composites
Chemical Engineering	Removal of bio-refractory contaminants from water
	Degradation of organic pollutants using Advanced oxidation processes
	Experimental and Modelling Studies on Controlled Release Fertilizer using Biodegradable Coating
	Catalytic steam reforming of bio oil for renewable hydrogen generation: Reaction kinetics and mechanism
Chemistry	Greener approach for the preparations of bio-active heterocyclic molecules through Carbonylations of unsaturated organic compounds
	Porous Transition Metal Phosphides, Catalysis, water splitting
	Organic Synthetic routes to Achieve Photo-Dynamic Therapeutic Agents in treating Cancer.
Civil Engineering	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
	Waste/Wastewater treatment (Chemical/ biological)
	Risk Assessment
	Material flow in Environmental Engineering
Electrocoagulation treatment of water/ wastewater.	
Materials Research Centre	Thermoelectric materials: Boosting efficiency via microstructure engineering

Physics	Synthesis and characterization of nanocrystals for various applications (Condensed Matter Physics)
	Gamma irradiation of nanocomposite thin films
	Development of catalyst support materials for fuel cell applications (Electrochemical Energy Conversion)
Management Studies	Consumer adoption behavior in digital environments
	Consumers' stickiness in online environments
	Social media addiction
	Online review and value creation/ destruction
	Consumer preference analysis in online environments
	Green Consumer Behavior
	Personality traits and Value co-creation
Electrical Engineering	Sustainable consumer Behavior
	Reliability Assessment of Power Systems with Distributed Generation
	AI Applications to Planning, Operation & Control of Power Systems
	Control of nonlinear systems and its applications.
	Event – triggered control for linear systems
	Investigations on stochastic systems and their control
	Renewable Energy
	Electric Vehicles
	Energy management
	Power Quality
	Distribution System Optimization
	Demand side management
	Demand response
	Microgrid/Smart Grid
	Power System Economic
	Power System analysis and optimisation
	Game theory application to power systems
	Hybrid AC/DC Microgrid: Steady state and fault analysis.
	Applications of AI/Control in Power systems.
	Steady-state and fault analysis of unbalanced Distribution systems with Renewable energy sources.
	Integration of Renewable energy sources into the grid and problems associated with it.
	Power System Operation and Control
	FACTS in Power Systems
	Power Systems Economics
	Integration of DG in Power Systems
	Power System Operation and Control
	Smart Grid
	Power System Dynamics and Voltage Stability Studies
	FACTS Devices, Renewable Integration in Power Systems
	Electric Vehicles
	Renewable Energy
	Electricity Market
Power Systems	

	Power System Economics
	Power System Operation
	Power System Planning
Architecture & Planning	Environmental Planning
	Urban Water systems
	Urban Design and Planning
	Urban Infrastructure Management
	Planning for Disaster Resilience
	Construction Project management
Humanities & Social Sciences	English:
	Digital Humanities and ELT
	Indian Writing in English
	Conflicts and Concerns in the literature of the Diaspora
	Trends in Modern English Theatre
	Exploring Postmodernist Tendencies in Select Fiction
	A Critical Study of Writing from the Margins: North Eastern Literature
	Perspectives in Feminist Literature
	Contemporary Indian Literature
	Aspects of English Language Teaching
Computer Science and Engineering	Expression Transfer in videos
	Cross domain biometric identity verification
	Behaviour analysis using biometric traits
	Internet of Things
	Intelligence at edge network
	Security in IoE
	Social Network Analysis using Graph Theory
	Continual Learning for Dialogue Based System
Mathematics	Study of Generalized Hypergeometric function and fractional calculus
	Study of special function and fractional calculus
National Centre for Disaster Mitigation & Management	Seismic Protection using Base Isolation
	Earthquake Resisting Design of RC Structures
	Seismic Analysis of Concrete Dams

<b>Ph.D. Topic without scholarship</b>	
<b>Department</b>	<b>Topics</b>
Mechanical Engineering	Project Management and Scheduling, Intelligent Manufacturing
	Machining of developed composites
	Development of Green Lean Six Sigma (GLSS) sustainable framework/model for small and medium enterprises (SMEs)
	Design, development and optimization of ASAW weldment with ASTM A519 grade 70
	Balancing of Spatial Mechanisms
	Numerical Simulation of the unsteady aerodynamics of flapping wings
Electronics & Communication Engineering	Design and Development of Microstrip Antenna Arrays (Communication)
	Machine Learning/Deep Learning (VLSI) , Computer Vision (VLSI), Biometrics (VLSI)
	Wideband Microstrip Antenna for Millimeter wave application (Communication)

	AI/Cognition modeling, CAD VLSI
Metallurgical and Materials Engineering	Fabrication and electrical characterization of flexible varistors
	Aluminium Nano Hybrid Composite – Fabrication and Evaluation of Mechanical, and Tribological Behavior.
	To study the effect of interlayers in producing joints of dissimilar metals/alloys combinations coming under difficult to join category.
	Beneficiation of lean grade magnetite iron ore by reduction roasting
	Tribology study of high entropy alloy coating
	Diffusion Bonding of CP Titanium and Aluminium Alloys
Chemical Engineering	Tandem catalysis for Industrial applications.
	Synthesis and applications of nanoparticles for wastewater treatment
	Study of membrane fouling and development of suitable antiscalant
	Potential of solar driven electrochemical advanced oxidation techniques for self-sustainable Toilets: Feasibility of H <sub>2</sub> production
	Extraction and separation of metals and dyes through supported liquid membrane.
	Synthesis of photocatalysts and application for waste water treatment
	Separation of Fluoride from Water Using Functionalized Resin
	Thermocatalytic decomposition of non-edible oil for the production of alfa olefin.
Chemistry	Design and Synthesis of Low Cost Photocatalyst for Waste Water Treatment
	Doped Carbon Materials for Multifunctional Application
	Development of nanocomposite for Pollutant Detection and Remediation in Water
	Nitrogen and Oxygen Containing Heterocycles in the Synthesis of Drugs - From Research to Practice
	Metal-Free C-H bond activation: Synthesis, Chemistry, Methodology Development and its practical application towards the Synthesis of bioactive heterocycles
	Heterogeneous catalysis in atmosphere
	Spectroscopic investigation of atmospherically important weakly bound molecular complexes
	Cobalt Catalyzed Hydrogen Evolution Reactions
	Nanomaterials
	Natural Products
Civil Engineering	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
	Applications of Industrial waste in soil stabilization/ ground improvement techniques
	Construction and Demolition waste/ Recycled Aggregates applications and management for Sustainable materials and construction
	Soil Erosion Assessment of A River System Using Geospatial techniques (tentative)
	Water Resources Planning and Management of a River Basin (Tentative)
	Road Safety Management: A case study.
Materials Research Centre	Development of multistimuli responsive self-assembled nanoscale materials for environmental and biological applications
Physics	Composite Nanostructures for gas sensing applications
	Transparent conducting thin films/structures

	Tuning the structural and optical properties of nanocrystalline thin films using ion beam irradiation (Condensed Matter Physics)
	Some studies on non-classical states in Anisotropic Universe. (High energy physics-cosmology)
	High-Efficiency Photoelectrocatalytic Systems for Hydrogen Generation
	MOF-Based Encapsulated Metal oxide Nanostructures for in situ Gas Sensing and separation
	Radiation Dose Measurement in Space Radiation Environment (Space Physics)
	Charm Physics (Experimental High Energy Physics)
	Surface and electrochemical studies of electrodes and polymer membranes in Polymer Electrolyte Membrane Fuel (Electrochemical Energy Conversion)
	Supercapacitors with Earth-abundant materials
	Photoelectrochemical Water Splitting
	Nanostructured materials for Metal-ion battery electrodes
Management Studies	Green Consumer Behavior
	Personality traits and Value co-creation
	Sustainable consumer Behavior
Electrical Engineering	Application of signal processing in Power systems and Control systems
	Renewable Energy
	Electric Vehicles
	Energy management
	Power Quality
	Design and development of EV chargers
	Microgrid control
	Wireless EV chargers
	Renewable energy control
	Design and development of inverter/converter
	Topologies for solar/PV applications
	Distribution System Optimization
	Demand side management
	Demand response
	Microgrid/Smart Grid
	Power System Economic
	Power System analysis and optimisation
	game theory application to power systems
	Power System Operation and Control
	FACTS in Power Systems
	Power Systems Economics
	Integration of DG in Power Systems
	Power System Operation and Control
	Smart Grid
	Power System Dynamics and Voltage Stability Studies
	FACTS Devices, Renewable Integration in Power Systems
	Electric Vehicles
	Renewable Energy
	Electricity Market
Power Systems	

	Distribution System Optimization
	Demand side management
	Demand response
	Microgrid/Smart Grid
	Power System Economics
	Power System Operation
	Power System Planning
	Operation and control of Smart Grid
Architecture & Planning	Environmental Planning
	UrbanWater systems
	Urban Design and Planning
	Urban Sustainability
	Urban Infrastructure Planning
	Regional Planning & Development
	Urban Growth and Land Management
	Sustainability and Traditional Knowledge systems in Architecture and Planning,
	Computational approach for decision making in Architecture and Planning
	Urban Housing Finance.
	Models of Urban Planning
	Housing for the Urban Poor.
	Assessment of Building Envelope Design
	Comfort Evaluation of Indoor Spaces
	Urban Infrastructure Management
	Planning for Disaster Resilience
Construction Project management	
Humanities & Social Sciences	Economics :
	Technology Diffusion Evaluation Studies
	Environment
	Higher Education
	Gender Economy
	Emerging Market Economies: Growth Trajectory & Challenges
	Economics of Well-being
	Regional Variations
	English:
	Perspectives in Feminist Literature
	Contemporary Indian Literature
	Aspects of English Language Teaching
	Sociology of development
	Social and gender inequalities and exclusion
	Science, technology and society
Rural and urban society	
Globalization, media and culture	
Computer Science and Engineering	Vulnerability Assessment and Penetration Testing
	Intelligence at edge network
	Internet of Things
	Internet of Things in Health Care

	Software Defined Networking for VANET
	Data Dissemination for VANET
	AI for IR And IE
	Object detection in remote sensing images
	Security in IoE
Centre for Energy and Environment	Analysis of small wind turbines
	Fesibility analysis of renewable based hybrid systems
	Design /optimization of solar photovoltaic systems
	Role of Energy Storage in Smart Grid
Mathematics	Study of Generalized Hypergeometric function and fractional calculus
	Study of special function and fractional calculus

<b>PhD Topic without scholarship (Only for Research personnel presently serving in various projects in MNIT)</b>	
<b>Department</b>	<b>Topics</b>
Chemical Engineering	Development of Intelligent Control of Heat Integrated Reactive Dividing Wall Column for synthesis of Methyl Acetate
	Catalytic Conversion of waste cooking oil into alkyl esters and alpha-hydroxy acid
Chemistry	Modeling the chemical reaction involving the species having high multi-reference character
Materials Research Centre	Development of perovskite based photo electrode for redox flow battery
Physics	Small angle neutron and x-ray scattering studies
	Optical and structural properties of defects in rare earth ion implanted ZnO nanostructures
	Hadron Physics and Applications (Experimental High Energy Physics)
Computer Science and Engineering	Airborne object detection and tracking
	Secure Intelligent Transportation systems

## 10. GENERAL INFORMATION

- 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.
- The institute reserves the right to change its statutes and regulations relating to academic programmes and the modalities of admission without prior notice.
- There is no age restriction for postgraduate programme.
- 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:

- 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, 2019**.
- (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 21/11/2019**
- (6) **The candidate is required to submit hard copy of PhD application form with photo copies of documents, and two photographs, at the time of reporting for admission process. All original documents along with M.Tech thesis copy should be brought by the candidate.**

## 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. The candidate has to make his/her own arrangements for staying at Jaipur when he/she comes for the counseling and/or interview. Candidate should come prepared to stay for a day more if required. No TA and DA are admissible.
- i. 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 M.Tech. 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 :- 07/11/2019**

**Last Date of submission of Online Application form :- 21/11/2019**

**Provisional list of shortlisted/eligible candidates for written test/interview will be displayed on Institute website by 27/11/2019.**

**Date of written test :- 09/12/2019 to 11/12/2019**

**Interview of the shortlisted candidates in the respective department :- 10/12/2019 to 12/12/2019**

**Note:- No copy is to be sent by post. Instead the candidate should bring copy of form and required documents as instructed at serial no. 14 (f) & (g).**

**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 .....

**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 2019]**

**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.

## 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, 2019.

**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:

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

**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
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