

INFORMATION BROCHURE

for admission to

DOCTOR OF PHILOSOPHY - Ph.D.

EVEN SEMESTER

(2015-2016)



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

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

For further information, please contact:

Office of Dean, Academic

Malaviya National Institute of Technology

J.L.N. Marg, Jaipur (Raj.) – 302017.

Fax 0141-2529029 (Off)

E-mail: admissions@mnit.ac.in

Web Site: www.mnit.ac.in

**Application has to be filled online
(Link available at www.mnit.ac.in).**

Start Date of Online Application :- 30th November 2015

**Last Date of submission of
Online Application form :- 15th December 2015**

**Provisional list of shortlisted/eligible candidates for written
exam/interview will be displayed on Institute website by 9 pm
on 18th December 2015.**

**Date of Interview :- 22nd, 23rd and 24th
December 2015**

*Also refer to rules and regulation manual for PG programme for more details
given on website mnit.ac.in.*

1. INTRODUCTION

Malaviya National Institute of Technology Jaipur is one of the 30 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 800 students for undergraduate (B.Tech./B.Arch.) programmes and about 650 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 & Planning degree.

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, 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 Applied Sciences (Physics, Chemistry and Mathematics).

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

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. 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 of interview.**
- 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” of DeitY(details of fellowship given in Section 6) would additionally consist of following components- (a) Throughout excellent academic credentials (CGPA more than 6.5, class X through postgraduate) and (b) should be in the top 25% of the qualified candidates after screening i.e. in the written test conducted (offline/online) and/or other criterion applied by Department. Additionally, candidates having publications in reputed Journal/ conference would be given due consideration in selection/screening process.
- 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 Discipline

The applicant must have a Master's degree in Engineering/Technology/Architecture 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 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 the MBA with preferable engineering background/M. Tech./M. Plan. with CGPA not below 6.5 on a 10-point scale or 60% marks (where CGPA is not awarded).

4.2.4 Ph.D. in Applied 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 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, 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.**

6. 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 eight 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, a total of 6 fellowships for Full-Time and 3 for Part-Time candidates are available in the Departments of Electronics and Communication, Computer Science and Engineering, and Electrical Engineering in the area of Electronics & IT (ESDM & IT) under "Visvesvaraya PhD Scheme" of DeitY. A candidate has to EXPLICITLY indicate, *whether he/she wishes to be considered for this scheme, in addition to normal process of admissions*. [Listing of areas for this session admission is attached for three departments- ECE, CSE, EE]. Once selected in this scheme, a student is entitled for following:
 - a) Fellowship for full time PhD candidate @ Rs. 31,500/- per month (1st 2nd year) and @Rs. 35,000/- per month for 3rd, 4th and 5th year (as per DeitY project scheme).
 - b) One time incentive of Rs. 2.5 lakhs for part time PhD candidate, ONLY at the time of completion
 - c) Annual contingency grant of Rs. 30,000/- per year & reimbursement of rent for full time candidate
 - d) 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.

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

Table 1 : Minimum qualification(s)

| Department | Minimum Educational Qualification |
|--|--|
| Architecture & Planning | Master in Architecture, Master in Urban Planning |
| Chemical Engineering | B.Tech./M.Tech. or equivalent degree in Chemical Engineering, B. Tech./ M.Tech. or equivalent degree in any branch of Engineering/Chemical Technology and interdisciplinary areas. |
| Chemistry | M.Sc. in Chemistry/ Medicinal/ Pharmaceutical/ Environmental/ Biochemistry/ Biotechnology and related disciplines with chemistry as one of the optional subject |
| Civil Engineering | M.E./M.Tech. degree in relevant engineering discipline |
| Computer Engineering | 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 |
| Electrical Engineering | M.E./M.Tech. or equivalent degree in respective & relevant Engineering disciplines |
| Electronics & Communication Engineering | B. Tech. and M. Tech. Electrical/ Electronics/ Computer/ Communication/ Telecommunication/ Instrumentation/ Control/ Microelectronics or equivalent discipline consistent with research areas of department. |
| Humanities and Social Sciences | M.A./M.Com. or equivalent degree 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. |
| Mathematics | M.A./M.Sc. in Mathematics/Computer Science/Statics |
| Mechanical Engineering | B.Tech./M.Tech. degree or equivalent degree in Mechanical/Industrial/ Production Engg. B.Tech./M.Tech. degree/ disciplines consistent with the research areas of the department. |
| Metallurgical & Materials Engineering | B.E./B.Tech. degree in Metallurgical/Materials/Mechanical/Chemical/ Ceramic Engineering/Nanotechnology (Engineering materials) with M.E./M.Tech. degree in Metallurgical/ Materials/ Ceramic Engineering/ Nanotechnology (Engineering materials). Nanotechnology (Engg. Materials) students should have Physics, Chemistry, and Mathematics at 12 th and B.Sc. level. |
| Physics | M.Sc. in Physics/Applied Physics/Engineering Physics/allied areas of Physics/interdisciplinary areas in physical sciences and technology |
| Centre for Energy and Environment | B.Tech. and M.Tech. in relevant disciplines |

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.

8. AVAILABLE RESEARCH AREAS IN VARIOUS DEPARTMENTS

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

| Department | Tentative Titles for Ph.D. |
|--|---|
| Architecture & Planning | Urban Growth Management |
| | Framework for Planning and Design of Urban Neighborhood |
| | Urban Benchmarking Indicators |
| | Building Regulations and Urban Environment |
| | Framework for Sustainable Buildings & Development |
| | Traditional and Vernacular Architecture |
| Chemical Engineering | Removal of metal ions from water using reverse micelles. |
| | Mass Transfer with Chemical Reaction: Absorption of CO ₂ in BaS solution, Experimental and Modeling Studies. |
| | Adsorptive desulfurization of petroleum products |
| | Mathematical modeling of a bubble column reactor |
| | Catalytic desulfurization and denitrification of liquid fuels |
| | Reactive Extraction of Carboxylic Acids from Aqueous Solutions in Micro-Reactors-Experimental and Modeling Studies |
| | Recovery of Industrially Important Biological Compounds by Solvent Impregnated Resins/Ionic Liquids |
| Civil Engineering | Particle characterization in indoor/outdoor environment , their modeling and health impacts |
| | Sewage disinfection using hybrid technique |
| | Seismic performance of RC frame buildings in India |
| | Performance based design of RC structures. |
| | Seismic risk assessment of Indian Housing |
| | Strength and Durability studies for the utilization of non-biodegradable waste in concrete. |
| | Experimental and Analytical Studies for the long term behaviour of steel concrete composite structures. |
| | System identification and health monitoring of structures |
| | Failure of transmission line towers in wind/earthquake |
| | Fatigue life estimate of railway bridge decks |
| | Remote Sensing & GIS Applications in Water Resources |
| | Urban Heat Island and climate change |
| | Building construction and management |
| | Surface and groundwater modeling |
| | Algae Bioreactors as a Cost-Effective Approach for Enhanced Nutrient Removal |
| | Adsorption on locally available waste/media/material as a treatment method for textile waste treatment |
| | Monitoring and modelling of particulate and gaseous pollutants in different indoor microenvironments. |
| Analysis of occupants health due to exposure to air pollutants at work place | |
| Modeling of Outdoor/indoor air | |
| Long Term Durability Investigations of Concrete made with Waste Materials | |
| Centre for Energy and Environment | Environmental impact assessment of green energy projects |
| | Investigations on energy efficiency enhancement and solar integration in air-conditioning systems |

| | |
|---|--|
| | Study and analysis of Earth Air Tunnel Heat Exchanger system as passive cooling method in solar thermal power plants. |
| | Study and performance analysis of solar air heater using artificial roughness. |
| | Investigations on multi-layer thin film structures to filter solar radiation |
| | Analysis of thermochemical energy storage systems |
| | High capacity hydrogen storage technology for on board vehicular application |
| | Demand Side Response for System Security |
| | Short Term Forecasting for Renewable Generation |
| | Local Energy Market Design |
| | Risk Management in Energy Markets |
| | Optimal generation mix for energy markets |
| | Energy Storage Services for grid operation |
| | Bioprocessing of sewage sludge with seasonal variations and modeling for anaerobic digestion |
| | Smart Grid Operation and Management |
| | Machine Learning Algorithms for Big Data Applications in Energy |
| Chemistry | Logical Approaches to Green Chemistry: Application towards the synthesis of Bio-active Heterocycles. |
| | Strategic Investigation of direct arylation reactions via C-H bond Activation concept: Application to the synthesis of Novel Bioactive/Antiparasitic Agents. |
| | Green Synthesis of Heterocycles and their Applications |
| | Design and Study of Potential Metallocarborane Catalysts for General and Selective Organic Reactions. |
| | Strategic Investigation of new organo-catalyzed C-C bond forming reactions via C-H bond activation: Application to the synthesis of bio-active heterocycles. |
| | Greening Organic Chemistry: Synthesis, Chemistry and Bio-evaluation of Bio-active heterocycles. |
| | Quantum Mechanical Investigation Of Energy Relaxation Processes In Complex Systems |
| | Spectroscopic And Quantum Chemical Investigation Of Atmospherically Important H Atom Transfer Reactions |
| Computer Science & Engineering | Resiliency analysis for Cyber Defense Systems |
| | Software Defined Networks and Deep Packet Inspection (Network Security) |
| | Fraud detection and Information Forensics (Mobile platforms included) using Big Data Analytics and Machine Learning Approaches. |
| | Dynamic reconfiguration in Massive Core Systems (Networks on Chip) |
| | Analysis of Mutation Driven Generation of Test cases and Oracles |
| | Challenges and issues in Automated regression Testing Suite |
| | Cyber security attacks and counter measures |
| | Privacy preservation in Information Security |
| | Computations with obfuscated data |
| | A Framework for Text Mining of Conversations on Social media |
| | Formal Methods for Definition and Semantics of Programming languages and Verification of Programs Written in these Languages |
| | A Data-driven Approach for Machine Translation |
| | Wireless Networks- Routing and Security |
| | Hybridizing the Wireless sensor Networks and IoT |
| Software Defined Networks | |

| | |
|--|---|
| | Natural Language Processing for Biomedical Text |
| | Real Time Event Detection and Prediction using Social Sensors |
| | Text Recognition, Simplification and Annotation of Scanned text |
| | Abstractive Automatic Text Summarization for Multiple Domains |
| | Architecture and communication in Internet of Things |
| | Social Internet of Things |
| | Wireless Adhoc Opportunistic Protocols |
| | Real Time Tracking by Detection using Parallel Computing |
| | Big Image / Video data Analysis and Pattern Matching using Parallel Computing |
| | Internet of Things with Pattern recognition and Big Data Applications |
| | Smart city development using Pattern recognition and IOT |
| Electrical Engg. | Design of State Feedback based Controllers using Multirate Output Sampling Technique. |
| | Design of Observers for Linear Systems |
| | Optimal Performance Approaches for the Design of Controllers |
| | Application of power electronic converters for Wind and PV system |
| | Performance enhancement in Power electronics drives |
| | Design and applications of switched mode power supplies(SMPS) |
| | Energy management scheme for hybrid autonomous microgrid |
| | Power quality improvement in power converters |
| | Voltage Stability Analysis and Preventive Methods |
| | Demand Side Response Mechanisms |
| | Power System Security Evaluation for Low Carbon Systems |
| | Big Data Analytics for Power System Operation |
| | Generator Frequency Response |
| | Local Energy Market Design: Operation and Management |
| | Distribution Network Pricing |
| | Risk Management in Energy Markets |
| | Optimal generation mix for energy markets |
| | Energy Storage Services for grid operation |
| | Application of AI in Power Systems |
| | Economic Operation of Power Systems |
| | Distribution System performance improvement using Artificial Intelligence |
| | Planning and Operation of Microgrids |
| | Economics of Deregulated and Restructured Power System |
| | Real Time Monitoring of Power System using WAMS |
| Application of AI Techniques to Power System Operation and Control | |
| Grid Integration Issues with DG Placement | |
| Smart Grid Operation and Management | |
| Machine Learning Algorithms for Big Data Applications | |
| Robotic Motion Control | |
| Electronics & Communication Engg. | Design, and analysis of electro-optic devices |
| | VLSI Implementation of digital watermarking for signal processing application |
| | Real time speech processing |
| | Hardware implementation of Compressive sensing application |
| | Compressive Sensing and its applications |
| | Signal processing techniques for clustering |

| | |
|---------------------------------------|--|
| | Nature Inspired Optimization |
| | Development of dielectric resonators/ antenna for high frequency communication |
| | Improved detection and decoding for MIMO- OFDM systems |
| | Wireless and Mobile adhoc networking |
| | System level design, Modeling& verification (SoC); |
| | Cognitive architectures & algorithms |
| | Embedded systems/Internet of Things (valid for institute as well as DeitY) |
| | Energy Efficient Solar Cells using Photonic Crystals |
| | Design simulation and characterisation of MEMS based micro/ nano fluidic channel |
| | DeitY Topic |
| | Ultra wideband antenna and its applications |
| | Frequency Selective Surfaces. |
| | Design of Meta materials and meta-material based antenna |
| | Electromagnetic band gap structures |
| | Integrated Photonic Devices and Systems |
| | MEMS Device for Bio/Piezoelectric sensor applications. |
| | Design of Antennas for HF applications |
| | Deep Learning and signal recovery in Compressive Sensing |
| | Embedded systems/Internet of Things |
| Humanities and Social Sciences | Politics in North east India. |
| | Politics of Secessionism in Different parts of India. |
| | Political Institutions in India after National Emergency |
| | Relational pattern between executive and Legislature, center state relation and squeak points in the federal system |
| Mathematics | The Study of Special Functions and Fractional Calculus with Applications |
| | Numerical Treatment for Magneto hydrodynamic Boundary Layer Flows |
| | A Study of Polynomials, Fractional Integral Operators , Unified Fractional Integral and special function, |
| Mechanical Engg. | Wear characterization of yttrium stabilized zirconia based dental ceramics |
| | Mechanical and wear characterization of Lithium disilicate glass ceramics for dental application |
| | Study and analysis of Earth Air Tunnel Heat Exchanger system as passive cooling method in solar thermal power plants. |
| | Study and performance analysis of solar air heater using artificial roughness. |
| | Dynamic design of agricultural Systems |
| | Investigations on energy efficiency enhancement and solar integration in air-conditioning systems |
| | Experimental Studies of Engine Development Techniques |
| | Experimental studies on Tetra generation system for I.C. Engines |
| | Investigations on Efficiency enhancement of Mechanical Cooling Tower |
| | Fiber Reinforced Composite for Fixed Dental Prosthesis |
| | Light activation influence on mechanical and wear properties of Resin Modified Glass ionomer Cement |
| | Ergonomic evaluation and redesign of hand tools in some small scale manufacturing industries. |
| | Productivity improvement in manufacturing sector |
| | Designing Ergonomic Interventions for performance enhancement of the process in high precision work SME industries: A Participatory Approach |

| | |
|--|---|
| Metallurgical & Materials Engg. | Development of TWIP/ TRIP steel for automobile applications |
| | High performance nanostructured thermoelectric materials |
| | Synthesis and characterization of high performance nanocomposite coating by electrodeposition |
| | Synthesis and characterization of aluminum matrix composite for automotive application |
| | Development of high performance steels for demanding fields like defense transportation, structural application etc. |
| | Synthesis and Characterization of Titanium based metal matrix composites using powder metallurgy route for aerospace applications |
| | Synthesis and Characterization of Ti-Al based intermetallics using powder metallurgy route for high temperature applications |
| | Synthesis and characterization of Cu based shape memory alloys using both Ingot and powder metallurgy routes |
| Physics | Graphene based gas sensor |
| | Investigation on graphene/Ag nanowire composite for TCE applications |
| | Development of In free energy conversion device |
| | Intense Short Pulse Laser Plasma Interaction and Charged Particle Acceleration |
| | Ultrafast Laser Pulse Propagation through Plasmas and Nonlinear Effects |
| | Polymer nanocomposites for optical and biological applications |
| | CNT based polymer composites for hydrogen separation and sensing |
| | Functionalized block copolymer nanotemplates for gas separation |
| | Effects of Pressure on Fe-based superconductors. |
| | Pressure Induced phase transitions in topological insulators. |
| | Optical and Electrical studies on functional nanomaterials. |
| | Systematic study of the eta meson production and its properties at intermediate energies using the Systematic study of the eta meson production and its properties at intermediate energies using the experimental facility WASA-at-COSY experimental facility WASA-at-COSY |
| | Investigating the effects of radiation damage in Silicon Detectors for future High Energy Physics experiments. |

Table-2B: Listing of areas for Visvesvaraya PhD fellowships- ESDM & IT/ITes of DeitY, Media Lab Asia

Dept. of ECE

| |
|--|
| System level design & modeling of analog and digital systems, Reduced Order Modeling, Machine Learning Algorithms & hardware implementation, Cognitive Algorithms, Embedded Systems, MEMS and Nanoelectronic circuits & systems modeling |
| Engineering Education, Mobile Communication, Satellite and Wireless Communication, Error Control Codes. |
| Optical Communication and Non Linear Optics, Error Control Codes, Microstrip Antenna and Arrays for wireless Communication, Wireless Networking and Sensor Networks, Multiuser Detection, MIMO-OFDM and MEMS |
| Signal and image processing, Fractional transforms, Electromagnetics. |
| Macro modeling for Analog subsystems and interconnect, Digital and Analog CMOS circuits. MEMS based design and development of sensors. |

| |
|--|
| Error Control Codes, Wireless Communications, Image Processing and analysis. |
| Low power VLSI systems, VLSI physical design, FPGAs. |
| Optical Communication, Optoelectronics and Photonics, Numerical Modelling, Nonlinear Optics, Optical Networks, RF and Microwaves, Solar Energy |
| Optical Communication Engineering: All Optical Switches, Optical Logic Gates & Circuits, Photonic Crystal Fibers, Nanophotonics, Nano-optical stru, • RF and Microwave Engineering: RF & Microwave devices, Microstrip and Smart Antennas. |
| Communication Engineering and Optics. |
| MEMS and Nanoelectronic Devices. |
| Analog VLSI, Analog Signal Processing, Neural Networks, Computational method for linear/non-linear problems. |
| Optical Communication Engineering: All Optical Switches, Optical Logic Gates & Circuits, Photonic Crystal Fibers, Nanophotonics, Nano-optical stru, Optical Communication, Optoelectronics, Optoelectronics and Photonics, Solar energy. |
| Signal Processing, Soft Computing, Neural Networks, Bio And Nature Inspired Algorithms, Modelling And Simulation, Pattern Recognition, Data Mining. |

Dept. of CSE

| |
|--|
| Real Time Systems, Parallel and distributed Systems, Cloud Computing, Big-Data, Fault Tolerance, Reliable Software Engineering, Mobile/ Adhoc networks, Sensor Networks, Live streaming, Internet of Things |
| 5G Mobile Networks: Device to Device (D2D) communication; Cognitive Radios and Self Organising Networks (SON); SDN and NFV: Scalable network hypervisor architecture, Network orchastration and abstraction |
| Software Engineering, Intelligent Systems |
| 5G Mobile Networks: Low latency mobile communication to provide real time applications; 5G Mobile Networks: Cognitive Radios and Self Organising Networks (SON); SDN and NFV: Scalable network hypervisor architecture; Internet of Things: SoC with integrated communication module; Multi hop networks: Protocols and Networking Issues; Self Organising and low power consuming sensor networks |
| Pattern Recognition and Classification, Image Processing |
| Theoretical Computer Science, Compilers And Programing Languages, Aspect Oriented Systems, Formal Theory Of Programming Languages |
| Information Retrieval, Data Mining, DBMS, Artificial Intelligence, Natural Language Processing |
| Network on Chip , Computer Networks, Embedded Systems, Wireless Communications, Multi-Core And Cloud Computing |
| Security, Privacy and Forensics, Wireless Networks, Cloud Computing, Big Data, Internet of Things. Software Defined Networking |

| |
|--|
| Wireless Networks Routing and Security, Smart Routing in Wireless Mesh Networks, Wireless Sensor Networks Security |
|--|

Dept. of EE

| |
|---|
| Power System Operation And Control, FACTS Controllers |
| Power Electronics And Drives, Health Monitoring Of Electrical Machines, Power Quality, Non Conventional Sources Of Energy |
| Smart Grid; Internet of Things, |
| Power System, Power Electronics, Non Conventional Sources Of Energy, Power Quality, Power conversion techniques for renewable energy system |
| Power electronics and Electrical Machines, Power conversion techniques for renewable energy system, FACTS Controllers, Smart grid, Artificial Intelligence, Wireless power transfer |
| Power Quality, Power Electronics, Control Engineering, DSP Application in Power Systems, AI Applications To Power System. |
| Application Of Artificial Intelligence (AI) In The Power System Operation And Control. |
| Power System, Non Conventional Sources Of Energy, Solar cell, Smart Grid |
| Application Of Artificial Intelligence (AI) In The Power System Operation And Control |
| Power System Operation And Control, AI Applications To Power System, Power Systems Economics, Power Systems Restructuring, Wide Area Monitoring and Control |
| AI Applications To Power System, Bio And Nature Inspired Algorithms, Electricity Markets, Power Systems Economics, Power Systems Restructuring, Risk Management, System Planning in Restructured Markets, Power Trading, Deregulated Power System Operation in a Smart Grid Environment |
| Power Systems Restructuring, Power Systems Economics, Network Pricing, Electricity Markets, Game Theory, Risk Management, Ancillary Services, Energy Storage |
| Power systems |

9. 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, 2015**.
- (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 December 15, 2015.**
- (6) **The candidate is required to submit one copy of 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.**

10. FEES

10.1 Fee structure for Ph.D. (Full-time) students seeking admission in the session 2015-16

INSTITUTE FEE

| S. No. | Head of Fees | Odd Semester of Registration | | Even Semester of Registration | |
|---|--|---|--------------------------------|---|--------------------------------|
| | | For General Category Students (in Rupees) | For SC/ST Students (in Rupees) | For General Category Students (in Rupees) | For SC/ST Students (in Rupees) |
| A. Admission/Tuition Fees | | | | | |
| 1. | Admission Processing Fee | 1000.00 | 1000.00 | 1000.00 | 1000.00 |
| 2. | Tuition Fee | 7500.00 | - | 7500.00 | - |
| | Total (A) | 8500.00 | 1000.00 | 8500.00 | 1000.00 |
| B. Institute Fees (Common for all students) | | | | | |
| 3. | Development | 1500.00 | 1500.00 | 1500.00 | 1500.00 |
| 4. | Library & Book Bank | 500.00 | 500.00 | 500.00 | 500.00 |
| 5. | Computer/Internet | 1800.00 | 1800.00 | 1800.00 | 1800.00 |
| 6. | Sports & Creative Arts Society | 1000.00 | 1000.00 | 1000.00 | 1000.00 |
| 7. | Students Welfare | 500.00 | 500.00 | 500.00 | 500.00 |
| 8. | Industrial Training & Placement | 500.00 | 500.00 | 500.00 | 500.00 |
| 9. | Examination | 500.00 | 500.00 | 500.00 | 500.00 |
| | Total (B) | 6300.00 | 6300.00 | 6300.00 | 6300.00 |
| C. Group Insurance * | | | | | |
| 10. | Insurance Fees (Annual) | 400.00 | 400.00 | -- | -- |
| | Total (C) | 400.00 | 400.00 | -- | -- |
| | Total (A+B+C) | 15200.00 | 7700.00 | 14800.00 | 7300.00 |
| D. One Time Payment at Admission | | | | | |
| 11. | Institute Caution Money**** (refundable) (for All) | 10000.00 | 10000.00 | -- | -- |
| 12. | Alumni Association Membership Fees ***(one time) (life membership) | 1500.00 | 1500.00 | -- | -- |
| 13. | Identity Card Charges | 100.00 | 100.00 | -- | -- |
| 14. | Final Degree Certificate (one time non-refundable) | 1000.00 | 1000.00 | | |
| | Total (D) | 12600.00 | 12600.00 | -- | -- |
| | Total (A+B+C+D) | 27800.00 | 20300.00 | 14800.00 | 7300.00 |

HOSTEL FEE

| | | | | | |
|--|---|-----------------|-----------------|-----------------|-----------------|
| A. Hostel Fees | | | | | |
| 1. | Room Rent | 3500.00 | 3500.00 | 3500.00 | 3500.00 |
| 2. | Light & Water Charges | 5000.00 | 5000.00 | 5000.00 | 5000.00 |
| | Total (A) | 8500.00 | 8500.00 | 8500.00 | 8500.00 |
| B. Hostel Caution Money & Mess Advance (for Hostellers) | | | | | |
| 1. | Hostel Caution Money (one time refundable) | 10000.00 | 10000.00 | -- | -- |
| 2. | Mess Advance per semester & adjusted in the Mess Bill at actual | 12000.00 | 12000.00 | 12000.00 | 12000.00 |
| | Total (B) | 22000.00 | 22000.00 | 12000.00 | 12000.00 |
| | Total (A+B) | 30500.00 | 30500.00 | 20500.00 | 20500.00 |

** Group insurance fees will be as per actual and will be applicable from the month of October

*** This amount is refundable to the student on submission of the proof of being a member of Alumni Association.

****Caution money shall be refunded only after successful completion of the programme.

The draft for **Institute Fees** should be in the name of the **Registrar MNIT Jaipur** payable at **Jaipur**.

The draft for **Hostel Fee** should be in the name of the **MNIT Mess Council** payable at **Jaipur**.

10.2 Fee structure for Ph.D. (Part-time) students seeking admission in the session 2015-16

INSTITUTE FEE

| S. No. | Head of Fees | Odd Semester of Registration | | Even Semester of registration | |
|---|--|---|--------------------------------|---|--------------------------------|
| | | For General Category Students (in Rupees) | For SC/ST Students (in Rupees) | For General Category Students (in Rupees) | For SC/ST Students (in Rupees) |
| A. Admission/Tuition Fees | | | | | |
| 1. | Admission Processing Fee | 1000.00 | 1000.00 | 1000.00 | 1000.00 |
| 2. | Tuition Fee | 7500.00 | - | 7500.00 | - |
| | Total (A) | 8500.00 | 1000.00 | 8500.00 | 1000.00 |
| B. Institute Fees (Common for all students) | | | | | |
| 3. | Development | 1500.00 | 1500.00 | 1500.00 | 1500.00 |
| 4. | Library & Book Bank | 500.00 | 500.00 | 500.00 | 500.00 |
| 5. | Computer/Internet | 1800.00 | 1800.00 | 1800.00 | 1800.00 |
| 6. | Sports & Creative Arts Society | 1000.00 | 1000.00 | 1000.00 | 1000.00 |
| 7. | Students Welfare | 500.00 | 500.00 | 500.00 | 500.00 |
| 8. | Examination | 500.00 | 500.00 | 500.00 | 500.00 |
| | Total (B) | 5800.00 | 5800.00 | 5800.00 | 5800.00 |
| C. Group Insurance * | | | | | |
| 10. | Insurance Fees (Annual) | 400.00 | 400.00 | -- | -- |
| | Total (C) | 400.00 | 400.00 | -- | -- |
| | Total (A+B+C) | 14700.00 | 7200.00 | 14300.00 | 6800.00 |
| D. One Time Payment at Admission | | | | | |
| 11. | Institute Caution Money**** (refundable) (for All) | 10000.00 | 10000.00 | -- | -- |
| 12. | Alumni Association Membership Fees ***(one time) (life membership) | 1500.00 | 1500.00 | -- | -- |
| 13. | Identity Card Charges | 100.00 | 100.00 | -- | -- |
| 14. | Final Degree Certificate (one time non-refundable) | 1000.00 | 1000.00 | | |
| | Total (D) | 12600.00 | 12600.00 | -- | -- |
| | Total (A+B+C+D) | 27300.00 | 19800.00 | 14300.00 | 6800.00 |

** Group insurance fees will be as per actual and will be applicable from the month of October

*** This amount is refundable to the student on submission of the proof of being a member of Alumni Association.

****Caution money shall be refunded only after successful completion of the programme.

Note:-The draft for **Institute Fee** should be in the name of the **Registrar MNIT Jaipur** payable at **Jaipur**.

10.3 Fee Structure for Ph.D. (Part-time) Institute Faculty/Staff seeking admission in the session 2015-16

| S. No. | Head of Fees | Odd Semesters | Even Semesters |
|--------|---|----------------|----------------|
| 1. | Admission Processing Fee | 1000.00 | 1000.00 |
| 2. | Tuition Fee | 1875.00 | 1875.00 |
| 3. | Examination | 500.00 | 500.00 |
| 4. | Alumni Association Membership Fees ***(one time) (life membership) | 1500.00 | 1500.00 |
| 5. | Final Degree Certificate (one time non-refundable) | 1000.00 | 1000.00 |
| | Total | 5875.00 | 5875.00 |

*** This amount is refundable to the student on submission of the proof of being a member of Alumni Association.

Note: The draft should be in the name of the **Registrar MNIT Jaipur** payable at **Jaipur**.

11. HOSTEL ACCOMMODATION

For married Ph.D. students, only a limited accommodation is available. The hostel for married students has one/two-room suite(s) with an attached bath and a kitchen for each resident family.

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 state 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 :- 30th November 2015

**Last Date of submission of
Application form :- 15th December 2015**

Provisional list of shortlisted/eligible candidates for written exam/interview will be displayed on Institute website by 9 pm on 18th December 2015.

**Date of Interview :- 22nd, 23rd and 24th
December 2015**

(Department-wise interview schedule will be notified later)

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 lastyears 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:
Date:.....

Signature of Head of the Institution/Organization with seal
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 4semesters 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:
Date:.....

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

OBC Certificate Format

**FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES
APPLYING FOR APPOINTMENT TO POSTS / ADMISSION TO CENTRAL
EDUCATIONAL INSTITUTIONS (CEIs), UNDER THE GOVERNMENT OF INDIA**

This is to certify that Shri/Smt./Kum. _____ Son/Daughter of Shri/Smt. _____ of Village/Town _____ District/Division _____ in the _____ State 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. 12015/9/2000-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.

Shri/Smt./Kum. _____ and/or his family ordinarily reside(s) in the _____ District/Division of _____ State. 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. 36012/22/93-Estt.(SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004.

Dated:

District Magistrate/
Deputy Commissioner, etc.

Seal

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 / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
 - (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate/Presidency Magistrate.
 - (iii) Revenue Officer not below the rank of Tehsildar' and Sub-Divisional Officer of the area where the candidate and / or his family resides.

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 recognised 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.

Signature of the Candidate

Place:

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.

LIST OF AUTHORITIES EMPOWERED TO ISSUE CASTE/TRIBE CERTIFICATE:

1. District Magistrate/Additional District Magistrate/Collector/Deputy Commissioner /Additional Deputy Commissioner/Dy. Collector/ 1st 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 Tehsildar.
4. Sub-Divisional Officers of the area where the candidate and/or his family normally resides.

PWD CERTIFICATE FORMAT

The form of certificate to be produced by Physically Handicapped candidates applying for appointment to posts under the Government of India

NAME & ADDRESS OF THE INSTITUTE/HOSPITAL

Certificate No

Date



DISABILITY CERTIFICATE

Recent Photograph of the candidate showing the disability duly attested by the Chairperson of the Medical Board

This is certified that Shri/Smt./Kum _____ son/wife/daughter of Shri _____ age _____ sex _____ identification mark(s) is suffering from

permanent disability of following category:

A. Locomotor or Cerebral Palsy:

(i) BL—Both legs affected but not arms

(ii) BA—Both arms affected

(a) Impaired reach

(b) Weakness of grip

(iii) BLA—Both legs and both arms affected

(iv) OL—One leg affected (right or left)

(a) Impaired reach

(b) Weakness of grip

(c) Ataxic

(v) QA—One arm affected (right or left)

(a) Impaired reach (b) Weakness of grip (c)

Ataxic

(vi) BH—Stiff back and hips (cannot sit or stoop)

(vii) MW—Muscular weakness and limited physical endurance. B. Blindness or Low Vision:

(i) B—Blind

(ii) PB—Partially blind

- C. Hearing impairment: (i) D—Deaf
(ii) PD—Partially deaf

(Delete the category whichever is not applicable)

2. This condition is progressive/non-progressive/likely to improve/not likely to improve
Re assessment of this case is not recommended/is recommended after a period of
years months.*

3. Percentage of disability in his/her case is _____ Percent.

4. Shri/Smt./Kum _____ meets the following physical requirements for
discharge of his/her duties:—

- | | |
|--|--------|
| (i) F—Can perform work by manipulating with | Yes/No |
| (ii) PP—Can perform work by pulling and pushing. | Yes/No |
| (iii) L—Can perform work by lifting. | Yes/No |
| (iv) KC—Can perform work by kneeling and | Yes/No |
| (v) B—Can perform work by bending. | Yes/No |
| (vi) S—Can perform work by sitting. | Yes/No |
| (vii) ST—Can perform work by standing. | Yes/No |
| (viii) W—Can perform work by walking. | Yes/No |
| (ix) SE—Can perform work by seeing. | Yes/No |
| (x) H—Can perform work by hearing/speaking. | Yes/No |
| (xi) RW—Can perform work by reading and writing. | Yes/No |

(Dr _____) (Dr _____) (Dr _____)
Member Member Chairman
Medical Board Medical Board Medical Board
Countersigned by the Medical Superintendent/CMO/Head of Hospital (With seal)

Strike out whichever is not applicable.

DECLARATION FORM

| | |
|----------------------|---|
| Id. No. | |
| Programme: | M.Tech. M.Plan Ph.D. |
| Department | |
| Name | |
| Son/Daughter/Wife of | |

I declare that:

1. I shall not receive any salary, scholarship, stipend or any other financial benefit from any other source except the institute assistantship during the period of my study at MNIT. (except top up grants from Institute Project/Industry and income from participating in consultancy projects of faculty of the Institute)
2. I shall not accept and join any job without obtaining prior permission of the institute.
3. I understand that I shall not be permitted to leave the programme midway and shall complete my programme successfully. Failing which I shall pay back entire assistantship received from the institute by me.
4. I also understand that in case I withdraw from the enrolled programme, the caution money shall not be refunded to me.

Signature of the student
Email Address
Mobile No.

Dated:

Contact Details of Head of Departments

| S. No. | Academic Department | Email | Phone Number (STD Code 0141) |
|---------------|-----------------------------------|----------------------|-------------------------------------|
| 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 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 | 2713386 |
| 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 |