#### INFORMATION BROCHURE

for admission to

DOCTOR OF PHILOSOPHY- Ph.D.

MASTER OF TECHNOLOGY - M. Tech.

MASTER OF PLANNING - Urban Planning

(2018-2019)



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

JAWAHAR LAL NEHRU MARG, MALVIYA NAGAR, JAIPUR-302017 (RAJASTHAN)

<a href="http://www.mnit.ac.in">http://www.mnit.ac.in</a>

# For further information, please contact:

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Web Site: www.mnit.ac.in

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

**Start Date of Online Application :- 04/05/2018** 

Last Date of submission of

Online Application form :- 31/05/2018

Provisional list of shortlisted/eligible candidates for written test/interview will be displayed on Institute website by 04/06/2018.

Date of written test & interview :- Please see page no. iii

(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.

	DATE OF WRITTEN TEST & INTERVIEW		
S.No.	Department	Ph.D.	M.Tech/M.Plan
1	CENTRE FOR ENERGY AND ENVIRONMENT	11 <sup>th</sup> June 2018	
2	CHEMISTRY	14 <sup>th</sup> June 2018	
3	COMPUTER SCIENCE AND ENGINEERING	12 <sup>th</sup> June 2018	11 <sup>th</sup> June 2018
4	HUMANITIES AND SOCIAL SCIENCE	12 <sup>th</sup> June 2018	
5	MANAGEMENT STUDIES	14 <sup>th</sup> June 2018	
6	MATHEMATICS	12 <sup>th</sup> June 2018	
7	NATIONAL CENTRE FOR DISASTER MITIGATION AND MANAGEMENT	11 <sup>th</sup> June 2018	
8	PHYSICS	14 <sup>th</sup> June 2018	
9	ARCHITECTURE AND PLANNING	12 <sup>th</sup> June 2018	12 <sup>th</sup> June 2018
10	CHEMICAL ENGINEERING	13 <sup>th</sup> June 2018	13 <sup>th</sup> June 2018
11	CIVIL ENGINEERING	15 <sup>th</sup> June 2018	15 <sup>th</sup> June 2018
12	ELECTRICAL ENGINEERING	11 <sup>th</sup> June 2018	11 <sup>th</sup> June 2018
13	ELECTRONICS AND COMMUNICATION ENGINEERING	11 <sup>th</sup> June 2018	11 <sup>th</sup> June 2018
14	MATERIAL RESEARCH CENTER	13 <sup>th</sup> June 2018	13 <sup>th</sup> June 2018
15	MECHANICAL ENGINEERING	13 <sup>th</sup> June 2018	13 <sup>th</sup> June 2018
16	METALLURGICAL AND MATERIALS ENGINEERING	12 <sup>th</sup> June 2018	12 <sup>th</sup> June 2018

 $<sup>\</sup>ast$  (-) implies that there are no seats in part time/full time sponsored.

#### 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 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.

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 Applied 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, 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:
  - o Free and objective enquiry
  - Courage and integrity
  - Awareness and sensitivity to the needs and aspirations of society.
  - o 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% marsk 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 wightage 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 M. Tech./M. Plan. (Full Time with Assistantship)

The admissions to M.Tech./M.Plan. (Full Time with Assistantship) will be done through Centralized Counseling for M. Tech./M.Arch./M.Plan. (CCMT) for the year 2018-19. For more details and information brochure, please visit the website <a href="www.ccmt.nic.in">www.ccmt.nic.in</a>

#### 4.3 M. Tech./M. Plan. (Full Time Sponsored/Part-Time)

Sponsored candidates are employees of a Public Sector Undertaking, a Government Department, a Research & Development organization, or a recognized private industry of repute (approved by SPGB on the recommendation of DPGC), or an Educational Institution, or be a Defence Sponsored Officer. Such candidates must be sponsored as Full-Time students.

Part-Time Candidates are Employees working in any Govt. organization/ Recognized private institutions

- The applicant must have a Bachelor's degree in Engineering/AMIE in appropriate discipline or a Master's degree in appropriate discipline with specified minimum CGPA/marks, as discussed above.
- ii. The applicant must have at least two years regular service
- iii. For working employees of MNIT, one year experience is required.

#### 4. 4 Doctor of philosophy

#### 4.4.1 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.

#### 4.4.2 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).

#### 4.4.3 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)

#### 4.4.4 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

- 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).
    - 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 12 for ECE, 12 for CSE, 08 for EE and 07 in SMDP-C2SD project (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. [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) 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
Architecture & Planning	Masters degree in Architecture/Planning/Technology in relevant discipline.
Chemical Engineering	B.Tech./M.Tech. or equivalent degree in Chemical Engineering, B. Tech./ M.Tech. or equivalent degree in any branch of Engineering/Chemical Technology and interdisciplinary areas.
Chemistry	M.Sc. in Chemistry/ Medicinal/ 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 Science & 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/ Compute Communication/ Telecommunication/ Instrumentation/ Contraction/ Microelectronics or equivalent discipline consistent with research are 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/Statistics	
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/ Manufacturing / Production Engineering with M.E. / M.Tech degree in Metallurgical/ Materials / Ceramic Engineering/ Thermal Engineering or equivalent degree in relevant engineering disciplines.	
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./B.Arch. and M.Tech. in relevant disciplines	
National Centre for Disaster Mitigation and Management	Under Graduate: civil engineering/Architecture  Graduate: Structural engineering/Earthquake Engineering or any other branch of civil/architectural Engineering	
Management	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).	
Materials Research Centre	<ul> <li>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)</li> <li>Other Qualifications:</li> <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 OR 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> </ul>	

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.

# 9. AVAILABLE RESEARCH AREAS IN VARIOUS DEPARTMENTS

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

Ph.D. topic (For With-scholarship, Without-scholarship and Research Associate employed		
in project in MNIT, Jaipur)		
Department	Topics	
Architecture and Planning	Assessment for improving Energy Efficiency in Built environment	
1 mmmg	Climate responsive neighbourhood design	
	Main streaming Urban Water System and their conservation	
	Urban Infrastructure	
	Urban Environment Planning and Sustainability	
	Urban Benchmarking	
	Urban Management	
	Planning for sustainable development	
	City energy Planning and management	
	Planning for Energy Efficient buildings	
	Traditional and Vernacular Architecture	
	Building regulations and Sustainable Development	
	Urban Disaster Resilience and Management	
	Land-use and Urban Growth Management	
	Sustainable Urban Development	
	Policy Planning in Urban Systems	
	Sustainable Urban, Rural and Regional Development Planning	
	Quality of Life & Urban Social Sustainability	
	Urban Financial & Resource Management	
Centre for Energy		
and Environment	Thermal storage and solar energy integration in HVAC system	
	Thermal Comfort Assessment in Buildings	
	Design and Analysis of BIPV Window/ Façade	
	Sustainable Charging for charging station for EVs	
	Consumer Behavior Modeling for Smart Cities	
	Stochastic Demand Modeling for Low Carbon Energy System	
	Condition Monitoring and Power Conditioning of Lithium Ion	
	Batteries	
	Communicative and Intelligent Inverters for Micro Grid	
	Energy Internet	
	Assessing Rating Systems for Built Environment	
	Climate responsive neighborhood Design	
	System Operation with massive grid integration of Electric Vehicles  Demand response modeling for impact assessment on system planning	
	Multiple time scale renewable energy forecasting for Indian Power Systems	

	Annual Denfarmance Enhancement of flet abotevalte is Color Denal by
	Annual Performance Enhancement of flat photovoltaic Solar Panel by Mirror Reflection
	Pretreatment Strategies to overcome the recalcitrant lignocellulosic biomass for enhanced biogas production
Chemical	Studies on Removal of Pharmaceutical from water using Reactive
Engineering	Adsorption
Linginicering	Development and Characterization of inexpensive solid catalyst for
	removal of emerging pollutants
	Studies on Bubble Column Reactor
	Removal of volatile organic carbon using vacuum membrane
	distillation
	Degradation of dye wastewater by advanced oxidation techniques - a
	novel approach combining fuel cells with electro-oxidation
	Development of novel green adsorbents from waste for application in
	defluoridation of drinking water – with a novel approach for their
	insitu regeneration for field applications.
	Application of advanced cavitation techniques for development of
	calcium carbonate nanomaterial utilizing marble waste for application
	in coatings.
	Studies on desulfurization and denitrification of flue gases using ionic liquids and Ca-based slurries.
	Advanced treatment of industrial waste water.
	Synthesis, characterization, and application of hydrophobic membrane
	for membrane distillation
	Simulation and Control of Reactive Divided wall Distillation Column
	Hydrodynamics Study of Non Newtonian fluids in microchannels
	Degradation of biorefractory pollutants with photocatalytic process
	comprising ultrasound and hydrodynamic cavitation; A perspective to
	the development of novel nano-photocatalyst
	Intensification of extraction of triglycerides from natural sources:
	Comparison between
	cavitation and conventional methods
	Process intensification of cavitation assisted preparation of colloidal
	systems as apotential delivery system for bioactive material having
	application in food and pharmaceutical industry.
	Application of statistical methods and process models for design and
	improvement of waste water treatment plants
	Experimental and modeling studies for comparison
	of different controlled release fertilizers.
	Experimental studies on treatment of RO reject water
	Development of valuable products from waste Biomass
	Studies on Polyaniline
	Recovery of Anti-biotics from Wastewater
	Development of Membrane for Ethanol production in Membrane
	Bioreactor System  Membrane Development for Vacuum Membrane Distillation.
Chemistry	Nanocatalysis and Synthesis of Organic Molecules for Multi- functional Applications
	Metal catalyzed activation of small organic molecules towards the
	formation of unusual hetero-cyclic molecules
	Greener synthetic aspects for general and selective organic
	transformations.
	Asymmetric Organocatalyzed Carbon-Carbon Bond Forming
	Reactions via C-H bond Activation: Reaction investigation,
	Chemistry and Synthetic Applications.

	Designing of new 2D nanomaterials with accessible surface defects for high performance electrochemical energy storage applications
	Photocatytic Applications of Carbon Nanomaterials.
	Doped Nano-carbons for Muliple Applications
	Carbon Nanorods: Synthesis and its Applications
	Fullerene and carbon nanotube as a means to study chemical reaction
	under confinement.
	Effect of Catalysis on dynamical pathways of chemical reactions.
	Spectroscopic investigation of tautomeric behaviour of DNA bases.
	Vibrational spectroscopy of atmospherically important weakly bound molecular clusters.
	Stereoselective Synthesis of Carbohydrate/heterocyclic analogs of therapeutic importance.
	Designing and Development of Methods in Synthetic Organic Chemistry using Greener reagent system.
	Syntheses and computational modeling of oxygen evolving molecules-OEMs for sustainable energy generation in Artificial Photo syntheses.
	Preparation of hybrid photo sensitizers through organic and metal- organic routes for Energy harvesting applications.
	Stimuli Responsive photo luminescent materials (complexes/ organic
	emitters) as molecular sensors.
	Organometallic carbene complexes for utilization in DSSCs and WOCs.
	Land use land cover changes and its implications on Climate &
Civil Engineering	human health
	Land use land cover change modelling
	Climate Change Impact studies on Hydrology Cycle Components
	Hydrological Modelling and analysis of performance of watershed
	intervention works Seismic Isolation for Earthquake Protection
	Seismic Design of Structures Seismic Control of Structures
	Base Isolation for Earthquake Hazard Mitigation
	Earthquake Resisting Design of Steel Structures
	Progressive Collapse under Earthquake
	Performance improvement of De-fluoridation process through
	Electro-coagulation  Evaluation of modified Binder(Nano and Polymer modified binder)
	Performance study and characterization of bituminous mixes
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	Rejuvenating Agents with RAP in HMA
	Recycled material for Cement Concrete Roads
	Optimization of structures using genetic algorithm or other technique
	Conceptual design of structures using artificial intelligence
	Waste material utilization from industries in building/roads
	Reinforced soil techniques for field applications
	Use of waste rubber tyres for reinforcing soils
	Characterization of fibre reinforced fly-ash soil mixtures
	Behaviour of reinforced Dune sands
	Durability Studies of Fibre Reinforced Self Compacting Concrete

	Docker Forensics
	IOT Forensics
	Block Chain Security
	Edge Computing
	Malware Security
	Side Channel Attacks and Mitigation
	Memory Access attacks: Detection and Mitigation
	Deep Learning Architectures for face recognition
	Person identification in video
	Multi model Biometric Authentication
	Mutation Testing
	Regression Test minimization
	Recommendation Engine
	Cross lingual Information Retrieval
	Text Analysis on Social Platforms  Trend Detection in Social Networks
771	Detecting Suspicious Users in Social Networks Using Text Analysis
Electronics & Communication	Detection in MIMO- OFDM Systems
Engineering	
	Energy efficient Wireless/ Sensor Networks
	Broadband Antennas for 4G/5G application
	Graph Signal processing based biomedical applications
	Application of GSP in image processing
	Design and optimization of MEMS devices.
	Modelling/FEM simulation & fabrication of nano devices for sensing applications
	Performance enhancement of MEMS devices for bio-medical
	applications Novel Digital Modulation Techniques for Li-Fi
	Energy efficient and high speed Gigabit optical communication
	Design and Development of Energy efficient green photonic devices
	Devices for Integrated Photonics Application
	Design and development of CNT based optical antenna
	Design and development of MEMS based piezoelectric energy harvester
	Optical Network Protection
	Nonlinear Photonics and Novel Optical Phenomena
	Photonic Crystal Biosensor
	Surface Plasmon Resonance Sensor
	Photonic Hollow Core Gas Sensor
	Medical applications using Raman Spectroscopy concept
	Development of MEMS based biosensor
	Design and development of high data rate electro ontic modulator
	Design and development of high data rate electro optic modulator  Sensor for biomedical applications
	Sensor for biomedical applications

	Performance optimization of JL silicon nano wire transistor for bio sensing application
Electrical Engineering	Control of Cyber Physical Systems
	Kalman Filtering and Its Applications
	Control of Stochastic Systems
	AI Applications To Power System,
	Power System Operation And Control,
	Smart Grid,
	Power System Dynamics and Voltage Stability Studies,
	FACTS Devices,
	Renewable Integration in Power Systems
	Sustainable Charging for charging stations for EVs
	Consumer Behavior modeling for Smart cities
	Stochastic Demand Modeling for Low Carbon Energy System
	Condition Monitoring and Power Conditioning of Lithium Ion
	Batteries
	Medical Diagnostics using Gait Analyzer
	Collaborative control of Muliple UAVs
	Robotic Assistive System for Human Knee
	Communicative and Intelligent Inverters for Micro Grid
	Energy Internet
	Cost-effective energy management in microgrids
	Application of FACT Devices in Distribution Systems
	Integration of Renewable Resources with power system grid
	Converter Application for H V DC Transmission
	Loss allocation in contemporary distribution systems
	Demand side management in the presence of distributed resources
	Intelligent Micro grid control
	Smart Electric Vehicle Transportation.
	Dynamic energy management in micro grid.
	Development of smart charger for EVs.
	Development of off board EV charger topology including ac-dc stage.
	Development of control loop for soft switching dc-dc converter.
	Optimal off-grid power management between PV and Wind.
	Application of AI for the optimal operation of microgrids
	System operation with massive grid integration of Electric Vehicles
	Demand response modeling for impact assessment on system
	Multiple time scale renewable energy forecasting for Indian Power
	Systems
	Cyber security challenges for system operation
	Local Energy Management in Distribution Networks
	Agriculture waste based Turbine and Generator design
**	Smart Electric Vehicle Transportation
Humanities & Social Sciences	Re-tellings and Adaptations of Myth and Folklore in Fiction
	Identity and Place in Contemporary Fiction

	Narrative and Cultural Elements in British Women's Fiction
	Politics in North east India
	Politics of Secessionism in Different parts of India
	Political Institutions in India
	Indian Judiciary
	Role of Renewable Energy Sources for Attaining Sustainable Energy Security in India
	Impact Assessment of Power Sector Reforms in India
Mathematics	The study of Flow through boundaries.
	Magnetohydrodynamic flow and heat transfer of a nanofluids
	Numerical study of MHD boundary layer flow of nanofluids
	Application of Special functions and integral transform
	Study of fractional calculus and special functions
	Fractional calculus operators, inequalities and applications
	Bicomplex functions and Fractional calculus
	Convergence of Sequences of Functions and Its Applications
	Spaces of Bounded and Locally Bounded Functions
	Algebraic Study of Spaces of Real-Valued Continuous Functions
Mechanical	Wear damage and effects of grapheme based lubricants using linear
Engineering	reciprocating sliding wear
	Study on biocompatibility and wear characterization of artificial joint materials
	Application of IOT for performance improvement in Industry
	Balancing of rotating mechanical system
	Abrasive Flow Finishing of the Surfaces Generated on 3D Printed Parts
	Additive manufacturing for low cost prosthetics / Orthosis: Design,
	Analysis, Development and Implementation.
	Development and Characterization of hybrid Textile composite
	Design, Development and Characterization of Dental Material.
	Machinability of Metal Based Alloy.
	Performance enhancement of Solar Refrigeration system
	Design & Development of Wrist Driven Orthoses
	Frugal 3D printed u-fluidic
	Ergonomic Interventions For Enhancing Performance of Labour
	Intensive Jobs Pertaining to Rural Areas.
	Agent based scheduling of Job shop manufacturing systems with maintenance considerations
	Development of a holistic model to capture risks associated with a
	new product development process/ Developing readiness index of
	Indian Industry to adopt Industry 4.0
	Investigation on Fatigue and Fracture Behavior of Nanocomposite Materials
	Behavioral Finance Application in Corporate Finance Decision
Management Studies	Making  Firm Financing in India
	Firm Financing in India
	Board Structure, Diversity and Firm Performance in Indian Companies
	Supply Chain Financing Practices of Indian Firms
	Risk Communication in Financial Reporting

	Consumer behaviour in online environments
	Readiness to adopt digital technologies
	Sustainable consumer behavior in tourism industry.
	Buyer supplier relationship in sustainable supply chain
	HR Analytics, Impact of Technology on Human Resource Practices
Material Research	Band gap engineering in graphene
Centre	Build gup engineering in graphene
	Sustainable and Green Nanocatalysis for Synthesizing Organic
	Molecules for Multi-functional Applications
	Improvement of Material Properties for Biomaterials using ECAP process
	Design and Development of Sensors for Pressure Mapping inside Prosthesis
	<i>In situ</i> strengthing of sputter coated Cu-Zr alloy
National Centre for	Seismic Isolation for Earthquake Protection
Disaster Mitigation and Management	Seismie Isolation for Earthquake Frotection
· ·	Seismic Design of Structures
	Seismic Control of Structures
	Base Isolation forEarthquake Hazard Mitigation
	Earthquake Resisting Design of Steel Structures
	Progressive Collapse under Earthquake
Physics	Nanoporous membranes derived from block copolymers for energy and biological applications
Thysics	Self-assembled block copolymer nanotemplates for optoelectronics
	application
	Encapsulated and functionalized metal oxides nanostructures for gas
	sensing applications
	Self-assembled nano-structures for hydrogen sensing and storage
	Polymer based biomimetic fingerprints for anti-counterfeiting
	approach.  Particle Physics aspects of Cosmology.
	Models of inflation in the light of cosmic microwave background and large scale structure observations.
	Dark matter and neutrino masses from cosmic microwave background
	and large scale structure observations.
	Constraining theories of modified gravity from cosmic microwave background and large scale structure observations.
	Growth and modification of nanocrystalline thin films for various
	applications
	High-Pressure Studies on Magnetically Doped
	Topological Insulators and Topological Superconductors
	Design and Development of Nanostructured Electrodes for Heavy
	Metal Ion Sensing and Removal from Drinking Water
	Production and decays of B mesons (Experimental work)
	Proton Therapy (Simulation and Modeling)
	Physics of Hypernuclei (Experimental Work)
	Charm Physics (Experimental Work)
	Production of Light Meson and its decays
	(Simulations & Data Analysis)
	Sources and compositions of UHECRs
	Transparent conductive contact for flexible and semitransparent solar cell
	application
	Page N

	Synthesis and investigation of 2D materials for different applications
	Thermoelectric properties of Magnesium silicide thin films
Metallurgical and Materials Engineering	Synthesis and characterization of Ti based bulk metallic glass
	Synthesis and characterization of Ti-Ni based shape memory alloys using powder metallurgy route
	Synthesis and characterization of Aluminium – graphene metal matrix composites using powder metallurgy route
	Microstructural modelling of solid state phase transformations during welding of steels

Ph.D. topic (Deity, Visvesvaraya PhD Scheme- Part Time Only)		
Department	Topics	
	Sustainable Charging for charging stations for EVs	
	Consumer Behaviour modelling for Smart cities	
	Stochastic Demand Modelling for Low Carbon Energy System	
	Condition Monitoring and Power Conditioning of Lithium Ion Batteries	
	Medical Diagnostics using Gait Analyser	
	Collaborative control of Multiple UAVs	
	Robotic Assistive System for Human Knee	
ELECTRICAL ENGINEERING	Communicative and Intelligent Inverters for Micro Grid	
ENGINEERING	Management of Power Quality Issues in Electric Vehicles	
	Power Quality Improvement using Different Filtering Techniques	
	Power Quality issues and their solution in Drives	
	Distribution System Restoration	
	Data analytic models for Power System operation	
	Cyber security challenges for system operation	
	Local Energy Management in Distribution Networks	
	Electric Vehicle Aggregation for Grid Services	
	Security for IoT applications	
Electronics & Communication	Modelling and development of Hybrid CMOS sensor for food quality detection	
Engineering (Visvesvaraya	MEMS with Biomedical	
Scheme, Category SMDP- C2SD Programme)	Performance enhancement of MEMS devices for sensing applications	
	MEMS based bio-sensor	

	Modeling Cognition, Cognitive Architectures
	Signal Conditioning Circuits, MEMS based sensors
	Embedded Systems with IOT
	Detection in MIMO-OFDM Systems
	Energy efficient Wireless/Sensor Networks
	Broadband Antennas for 4G/5G application
	Graph Signal Processing based image/signal processing
	Novel Digital Modulation Techniques for Li-Fi
	Energy efficient and high speed Gigabit optical communication
	Design and Development of Energy Efficient green photonic devices
	Numerical investigation for efficient Integrated Photonic Devices and systems
	Bio-sensing devices based on Non-linear Photonics
	Nano Structure Photonic Crystal Bio Sensor
	Surface Plasmon Resonance Sensor
	Optical Network Protection Scheme
	Design and development of Terabit/s optical communication link for data transfer
	Security for IoT applications
	Modelling and development of Hybrid CMOS sensor for food quality detection
	Modeling cognition, Cognitive Architectures
	MEMS with Biomedical
	MEMS based bio-sensor
Electronics &	MEMS devices for Biomedical application
Communication Engineering	Signal processing techniques for earthquake catalogue analysis
	Multi model Biometric, medical Image/Video Analysis
	Security and Authentication
	Video Surveillance and Anomaly detection
Computer Science &	Natural Language Processing
Engineering	Security & Privacy in IOT issues in SDN
	Internet of Vehicles CDN for IOT
	Resources aware routing in XG networks
	Formal semantics of Programming Languages
	1 ormal semantics of 1 rogramming Languages

Text Processing
Docker Forensics
IOT Forensics
Block Chain Security
Edge Computing
Vulnerability Detection and Mitigation Privacy Processing
Computations on Cloud
Security Testing
Medical Diagnoses/Health care system
Text analytics with recent deep learning techniques

# 10. MINIMUM QUALIFICATION(S) FOR ADMISSION TO M.TECH./M.PLAN. SPONSORED (FULL TIME/PART TIME)

S. No.	Academic Department	Post Graduate Programme	Minimum Educational Qualification	
1.	Chemical Engg.	Chemical Engg.	B.E./B.Tech. in Chemical Engg., Chemical & Polymer Engg., Chemical Technology, Biochemical Engg., Biotech Engg., Biotechnology, Environmental Engineering, Leather Technology, Material Science & Engg./Technology, Nanotechnology, Polymer Science & Rubber Technology, Polymer Science & Technology, Polymer Technology, Bioengineering, Biotechnology & Biochemical Engg., Diary Technology, Environment & Pollution Control, Food Engg./Technology, Industrial Biotechnology, Oil & Paint Technology, Oil Technology, Oils, Oleochemicals & Surfactants Technology, Paint Technology, Petroleum Engg./Technology, Plastic & Polymer Engg., Plastic Engg./Technology, Pulp & Paper Engg., Pulp Technology, Rubber Technology, Surface Coating Technology.	
2.	Civil Engg.	Water Resource Engg.	B.E./B.Tech. in Agriculture Engg., Civil Engg., Irrigation Engg., Water Management, Civil Engg. & Planning, Civil Technology.	
3.	Civil Engg.	Environmental Engg.	B.E./B.Tech. in Agriculture Engg., Biotech Engg., Biotechnology, Chemical Engg., Civil Engg., Civil Environmental, Computer Technology, Mechanical Engg., Biotechnology & Biochemical Engg., Chemical Technology, Civil Engg. & Planning, Civil Technology, Environmental & Pollution Control, Environmental Science & Engg./Technology.	
4.	Civil Engg.	Transportation Engg.	B.E./B.Tech. in Civil Engg., Construction Engg., Construction Technology, Highway Engg., Transportation Engg., Transportation & Urban Planning , Civil Engineering & Planning, Civil Technology.	
5.	Civil Engg.	Structural Engg.	B.E./B.Tech. in Building& Construction Tech., Civil Engg., Construction Engg., Construction Technology Structural Engg., Applied Mechanics, Civil Engg. & Planning, Civil Technology, Computer Aided Design	

			of Structures.		
6.	Civil Engg.	Disaster Assessment and Mitigation	B.E./B.Tech. in Agriculture Engg., Chemical Engg., Civil Engg., Computer Technology, Construction Engg., Construction Technology, Irrigation Engg., Water Management, Civil Engg. & Planning, Civil Technology.		
7.	Electrical Engg.	Power Systems	B.E./B.Tech. in Electrical Engg.		
8.	Electrical Engg.	Power Systems Management	B.E./B.Tech. in Electrical Engg.		
9.	Electronics & Communication Engg.	Electronics & Communication Engg.	B.E./B.Tech. in Electronics & Communication Engg. Electronics and Instrumentation Engg., Electronics and Telecom Engg, Electronics Engg Telecommunication Engg, Applied Electronics Telecommunication Engg, Communication Engg Computer and Communication Engg., Electronics and Computer Engg., Electronic and Electrical Communication Engg, Electronics Design Technology. Electronics Science and Engg., Information & Comm. Technology.		
10.	Electronics & Communication Engg.	VLSI Design	B.E./B.Tech. in Electronics & Communication Engg. Electronics and Instrumentation Engg., Electronics and Telecom Engg, Electronics Engg, Telecommunication Engg., Applied Electronics Telecommunication Engg, Communication Engg., Computer and Communication Engg., Electronics and Computer Engg., Electronic and Electrical Communication Engg, Electronics Design Technology. Electronics Science and Engg., Information & Comm. Technology, VLSI System Design.		
11.	Mechanical Engg.	Industrial Engineering	B.E./B.Tech. in Mechanical Engg., Industrial Engg., Industrial Engg. & Management, Industrial & Production Engg., Production & Industrial Engg., Production Engg. & Management.		
12.	Mechanical Engg.	Thermal Engineering	B.E./B.Tech. in Mechanical Engg., Automobile, Engg., Mechanical Engineering Automobile		
13.	Metallurgical & Materials Engg.	Metallurgical & Materials Engg.	B.E./B.Tech. in Metallurgical & Material Engg., Metallurgical Engg. & Material Tech., Metallurgical Engg., Metallurgical Engg. & Material Science, Metallurgy, Materials Science &Engg./Tech., Materials Science & Metallurgical Engg., Materials & Metallurgical Engg., Cement & Ceramic Tech., Ceramic Engg., Chemical Engg., Electro-Chemical Engg., Engineering Physics, Industrial & Manufacturing Engg., Industrial & Production Engg., Industrial Engg., Industrial Metallurgy, Manufacturing Engg./Tech., Mechanical Engg., Mineral Processing, Polymer Science & Technology, Production & Industrial Engg., Production Engg., Ceramic & Glass Tech., Ceramic Engg. & Tech.,		

			Ceramic Technology, Chemical & Polymer Engg., Chemical & Polymer Engg., Chemical Technology,
			Manufacturing Process, Manufacturing Science &Engg., Mineral Dressing, Mineral Engg., Surface Coating Tech.
			M.Sc. in Applied Physics, Chemistry, Material Science, Mineral Benefiction, Ore-Dressing, Physics, Engg. Physics, Mineral Dressing, Nano Science & Tech.
			Material Science & Engineering, Material Science &
			Metallurgical Engineering, Material Science &
			Technology, Material & Metallurgical Engineering,
			Metallurgical & Material Engineering, Metallurgical
			& Material Technology, Metallurgical Engineering,
			Metallurgical Engineering & Material Science,
			Metallurgy & Materials, Metallurgy &
			Material Technology.
14.	Metallurgical &	Steel	Manufacturing Engineering, Material Science &
	Materials Engg.	Technology	Engineering, Material Science & Metallurgical
			Engineering, Material Science & Technology,
			Material & Metallurgical Engineering, Metallurgical
			& Material Engineering, Metallurgical & Material
			Technology, Metallurgical Engineering, Metallurgical
			Engineering & Material Science, Metallurgy,
			Metallurgy & Materials, Metallurgy & Material Technology, Production Engineering, Mechanical
			Engineering.
			Engineering.
15.	Computer Science & Engg.	Computer Engg.	B.E./B.Tech. in Applied Electronics & Instrumentation Engg., Computer Engg., Computer Science, Computer Science & Engg., Computer Science & Information Technology, Computer Technology, Electrical & Electronics Engg., Electrical & Instrumentation, Electrical Engg., Electronics & Communication Engg., Electronics & Instrumentation Engg., Electronics & Telecom Engg., Electronics Engg., Information Technology, Power Electronics, Telecommunication Engg., Applied Electronics & Telecommunication Engg., Computer & Communication Engg., Computer Engg. & Application, Computer Networking, Computer Science & System Engg., Computer Science & Technology, Computing in Computing, Computing in Multimedia, Computing in Software, Electrical Engg. & Industrial Control, Electrical & Instrumentation Engg., Electrical & Power Engg., Electronics Instrumentation & Control Engg., Electronics & Computer Engg., Electronics & Power Engg., Electronics & Instrumentation Engg., Electronics & Electronics & Electronics & Power Engg., Electronics & Instrumentation Engg., Electronics & Electronics & Electronics & Power Engg., Electronics & Information Systems, Electronics & Power Engg., Electronics & Instrumentation Engg., Electronics & Instrumentation Engg., Electronics Communication & Instrumentation Engg., Electronics Communication & Instrumentation Engg., Electronics Design Technology, Electronics Instrument &

			Information Engg., Information Science, Information Science &Engg./Technology, Software Engg., VLSI System Design		
16.	Architecture & Planning	Master of Planning (Urban Planning)	B. Arch., B. Plan., Bachelor in Town Planning, Bachelor in Urban Planning, Bachelor in Urban Planning, Bachelor in Town & Country Planning, B.E or B.Tech. in Civil Engineering, B.E or B.Tech. in Environmental Engineering, B.E or B.Tech. in Construction Engineering., B.E or B.Tech. in Construction in Construction Technology.		
17.	in Construction Technology.  M.Sc. in Physics/ Chemistry/ App Electronics/ Materials Science/Nanotect OR  B.Tech. in Applied Electronics and Engineering/ Electrical and Electronic Electrical and Instrumentation Engineer Engineering/ Electronics and Engineering/ Electronics and Engineering/ Electronics and Engineering/ Electronics and Engineering/ Electronics Engineering/ Engineering/ Engineering/ Engineering/ Engineering/ Engineering/ Materials Science and Mechanical Engineering/ Materials Science and Mechanical Engineering/ Nanotechnology/ Polymore Technology/ Production Engineer Technology/ Chemical Technology/ Electrical Engineering/ Instrument Materials Science and Metallurgical Engineering/ Instrument Materials Science and Metallurgical		B.Tech. in Applied Electronics and Instrumentation Engineering/ Ceramic Engineering/ Chemical Engineering/ Electrical and Electronics Engineering/ Electrical and Instrumentation Engineering/ Electrical Engineering/ Electronics and Communication Engineering/ Electronics and Instrumentation Engineering/ Electronics Engineering/ Engineering/ Physics/ Instrumentation and Control Engineering/		

Electronics, Information & Comm. Technology,

#### 11. SEAT MATRIXAND OTHER DETAILS

Table 3. Duration of M. Tech./M.Plan./M.Sc. Programme

Duagnamma	Duration of the Programme		
Programme	Normal duration	Maximum duration	
	Full Time: 4 Semesters	6 Semesters	
M. Tech.	Part Time: 6 Semesters	8 Semesters	
M.Sc.	Full Time: 4 Semesters	6 Semesters	

Table 4. Seat Matrix for M.Tech./M.Plan Programme (Session 2018-2019)

Programme	Full Time Sponsored	Part Time Sponsored
Chemical Engineering	5	6
Computer Engineering	5	6
Disaster Assessment and Mitigation	5	6
Electronics & Communication Engineering	5	6
Environmental Engineering	1	6
Industrial Engineering	5	6
Metallurgical & Materials Engineering	5	6
Material Science & Engineering	6	5
Power Systems	5	6

Power Systems Management	5	6
Steel Technology	5	6
Structural Engineering	5	6
Transportation Engineering	5	6
Urban Planning	5	6
VLSI Design	5	6
Water Resources Engineering	5	6

Table.5 Basis for Selection to Postgraduate Programmes leading to M. Tech./M.Plan. Degree for Full Time/Sponsored (Full-time and Part-time) candidates

Candidates Status	Basis for Selection	
M. Tech./M.Plan(Full time sponsored/Part Time)	Experience, merit of qualifying examination & interview/Test	

#### 12. GENERAL INFORMATION

- (a) Admission will be to the first semester of the respective postgraduate programmes.
- (b) Admission to various PG programmes leading to M.Tech./M. Planning degree would be based on a merit list prepared by the respective departments. The merit list will be made available on the website of the Institute. **No separate information will be sent to the candidates.**
- (c) A student who is admitted and registered for a postgraduate programme at the Institute but leaves before completing or discontinued his/her studies, shall not be admitted to a programme at the same level.
- (d) 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.
- (e) The institute reserves the right to change its statutes and regulations relating to academic programmes and the modalities of admission without prior notice.
- (f) There is no age restriction for postgraduate programme.
- (g) 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**, **2018**.

- (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 31/05/2018
- (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. (for Ph.D. Admission)

#### **13. FEES**

Updated Fees structure will be available on Institute website.

#### 14. 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.

#### 15. 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.

#### 16. 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** :- 04/05/2018

Last Date of submission of

Application form :- 31/05/2018

Provisional list of shortlisted/eligible candidates for written test/interview will be displayed on Institute website 04/06/2018.

	DATE OF WRITTEN TEST & INTERVIEW				
S.No.	Department	Ph.D.	M.Tech/M.Plan		
1	CENTRE FOR ENERGY AND ENVIRONMENT	11 <sup>th</sup> June 2018			
2	CHEMISTRY	14 <sup>th</sup> June 2018			
3	COMPUTER SCIENCE AND ENGINEERING	12 <sup>th</sup> June 2018	11 <sup>th</sup> June 2018		
4	HUMANITIES AND SOCIAL SCIENCE	12 <sup>th</sup> June 2018			
5	MANAGEMENT STUDIES	14 <sup>th</sup> June 2018			
6	MATHEMATICS	12 <sup>th</sup> June 2018			
7	NATIONAL CENTRE FOR DISASTER MITIGATION AND MANAGEMENT	11 <sup>th</sup> June 2018			
8	PHYSICS	14 <sup>th</sup> June 2018			
9	ARCHITECTURE AND PLANNING	12 <sup>th</sup> June 2018	12 <sup>th</sup> June 2018		
10	CHEMICAL ENGINEERING	13 <sup>th</sup> June 2018	13 <sup>th</sup> June 2018		
11	CIVIL ENGINEERING	15 <sup>th</sup> June 2018	15 <sup>th</sup> June 2018		
12	ELECTRICAL ENGINEERING	11 <sup>th</sup> June 2018	11 <sup>th</sup> June 2018		
13	ELECTRONICS AND COMMUNICATION ENGINEERING	11 <sup>th</sup> June 2018	11 <sup>th</sup> June 2018		
14	MATERIAL RESEARCH CENTER	13 <sup>th</sup> June 2018	13 <sup>th</sup> June 2018		
15	MECHANICAL ENGINEERING	13 <sup>th</sup> June 2018	13 <sup>th</sup> June 2018		
16	METALLURGICAL AND MATERIALS ENGINEERING	12 <sup>th</sup> June 2018	12 <sup>th</sup> June 2018		

<sup>\* (-)</sup> implies that there are no seats in part time/sponsored category

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. 16 (f) & (g).

#### 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
	TE FROM INSTITUTE / UNIVERSITY Indidates whose result of the qualifying examination has not been declared)
theory, practical and project examination out the non-applicable ones and write in t	has appeared in the final year examination including for B.E./B.Tech./B.Sc./M.Scdegree (strike he blank if the degree is not mentioned) and the result is likely to be His/her conduct and character during his/her stay at the
Place: Date:	Signature of the Principal/Dean/Registrar/ Dy. Registrar/Proctor/Administrative Officer of the institute last attended with seal
	ANNEXURE III
	TE OF THE FORWARDING OFFICER to appear in the qualifying examination or yet to get the degree)
bonafide student of our institution and is a yet to complete / has completed all the re project examination for B.E./B.Tech./B.So write in the blank if the degree is	pplication of Mr./Ms that he/ she is a applying for admission to PG programmes at MNIT Jaipur. He/She is quirements of qualifying examination including theory, practical and c./M.Sc (Strike out the non-applicable ones and not mentioned) and the result is likely to be announced by 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.
organization for the last for joining	re of Mr./Ms
1 2	
3	
His/her conduct and character is good.	
	elieve him/her immediately for joining the above course, if selected for him/her duties in the organization to devote sufficient time for
Place:	Signature of Head of the Institution/Organization with seal
Date:	Name Designation
*Candidate should also give a separat courses undertaken by him for fulfillm	e undertaking that he would fulfill the attendance requirements of all the ent of the course pursued.
	ANNEXURE V
(Required from ( On a letterhead of the spon) The undersigned is pleased to per organization for the last for put	NO OBJECTION CERTIFICATE Candidates Seeking Admission on Part-time Basis) soring organization & enclosed with application for admission) mit Mr./Ms
2	
3	. We are ready to relieve him/her during study hours (usually 8-10 hours of undergo the Masters' programme / (usually about 6 hours of classroom e Ph.D. programme as per time-table of the Institute, which follows slot ion of course work is expected to be 4 semesters for Part-Time M.Tech. Ph.D. programme, while total duration is expected to be 3 years for part.D.
Place:	Signature of Head of the Institution/Organization with seal
Date:	Name Designation

### **OBC Certificate Format**

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

"This certificate MUST have been issued on or after 1st April 2018."

This is to cer tify that Shri/Smt./Kum		Son/Daughter of Shr i/Smt.			
of Village	e/Town	District/Div	vision	in	
	longs to the	Community which	ch is recognized as a backw	ard class under:	
(i)	Resolution No. 12011/68/93- Extraordinary Part I Section I N	·BCC(C) dated 10/09/93 lo . 186 dated 13/09/93.	published in the Gazette	e of India	
(ii)	Resolution No. 12011/9/94-BC Section I No. 163 dated 20/10/9		d in the Gazette of India Ext	raordinary Part I	
. ,	Resolution No. 12011/7/95-BC Section I No. 88 dated 25/05/99	5.	d in the Gazette of India Ext	raordinary Part I	
(v) (vi) (vii)	Resolution No. 12011/96/94-B6 Resolution No. 12011/44/96-B6 Section I No. 210 dated 11/12/9 Resolution No. 12011/13/97-B6 Resolution No. 12011/99/94-B6 Resolution No. 12011/68/98-B6	CC dated 6/12/96 published 96. CC dated 03/12/97. CC dated 11/12/97.	d in the Gazette of India Ext	raordinary Part I	
,	Resolution No. 12011/88/98-Be Section I No. 270 dated 06/12/9	CC dated 6/12/99 published	d in the Gazette of India Ext	raordinary Part I	
(x)	Resolution No. 12011/36/99-B Part I Section I No. 71 dated 04	CC dated 04/04/2000 publ 4/04/2000.	ished in the Gazette of Ind	ia Extraordinary	
(xii) (xiii) (xiv)	Resolution No. 12011/44/99- Extraordinary Part I Section I N Resolution No. 12016/9/2000-E Resolution No. 12011/1/2001-E Resolution No. 12011/4/2002-E Resolution No. 12011/9/2004 Extraordinary Part I Section I N	BCC dated 06/09/2001. BCC dated 19/06/2003. BCC dated 13/01/2004. 4-BCC dated 16/01/2006			
Shri/Sm	t./Kum		inarily reside(s) in the		
& Traini	State. The Layer) mentioned in Column 3 mg O. M. No. 36 012/22/93-Ess.) dated 09/03/2004.	3 of the Schedule to the Go		ent of Personnel	
Dated:					
NOTE:			District Magistrate/ Depu Seal	ty Commissioner, etc	

- (a) The ter m 'Ordinarily' used here w ill 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 C lass Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Ex tra Assistant Commissioner (not below the rank of 1st C lass Stipendiary Magistrate).
  - (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
  - (iii) Revenue Officer not below the rank of Tehsildar and
  - (iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.

OBC Certificate issued from Maharashtra State must be validated by social welfare Department of Maharashtra Government

# OBC Undertaking

# **Declaration / undertaking - for OBC Candidates only**

I, district	son/daughter of Shri	res	sident of village/tov	wn/city
State	hereby declare that I bel	long to the	commu	unity which is
recognized as a backwa	ard class by the Governmen	nt of India for the p	urpose of reservat	ion in services
as per orders conta	nined in Department of	Personnel and	Training Office	Memorandum
No.36012/22/93- Estt.	(SCT), dated 8/9/1993.	It is also decla	red that I do r	not belong to
persons/sections (Crea	my Layer) mentioned in C	olumn 3 of the S	Schedule to the al	bove re ferred
Office Memorandum, d	ated 8/9/1993, which is mo	dified vide Depart	ment of Personne	el and Training
Office Memorandum N	o.36033/3/2004 Estt.(Res.)	dated 9/3/2004.I a	also declare that the	ne condition of
status/annual income	for creamy layer of my pa	arents/guardian is	within prescribed	d limits as on
financial year ending or	n March 31, 2018.			
Place: Candidate			Signature o	of the
Date:				

Declaration/undertaking not signed by Candidate will be rejected

## **SC/ST CERTIFICATE FORMAT**

		Son/Daughter of
Shri	of village/Town	in District/ Division
	of village/Town_ of the State/Union Territory	n bidined biviolen
belongs to the	caste/Tribe, which is recognized	as a Schedule Caste/Scheduled
The Constitution (Scheduled Castes) order, 195 The Constitution (Scheduled Tribes) order, 1950		
The Constitution (Scheduled Castes)(Union Ter The Constitution (Scheduled Tribes) (Union Ter		
Reorganization Act, 1960, the Punja North Eastern Areas (Reorganizati (Amendment) Act, 1976.)	I Castes and Scheduled Tribes (Modi ab Reorganization Act, 1966, The State ion Act, 1971) and the Scheduled Ca mir) Scheduled Caste Order, 1956;	of Himachal Pradesh Act, 1970, the
*The Constitution (Andaman and Castes and Scheduled Tribes orders	Nicobar Islands) Scheduled Tribes, 19 s (Amendment) Act. 1976;	59, as amended by the Scheduled
*The Constitution (Dadra and Nagar Haveli) *The Constitution (Dadra & Nagar Haveli) So The Constitution (Pondichery) Scheduled Ca *The Constitution (Uttar Pradesh) *The Constitution (Goa, Daman &	cheduled Tribes Order, 1962; * astes Order, 1964;	
	bes Order, 1970; uled Castes Order, 1978;	01.
*The Constitution (Scheduled Tribes) Orc *The Constitution (Scheduled Tribes) Orc	,	
This contificate is issued on the h	pasis of the Scheduled Castes/Schedu	ulad Tribas Cartificate issue to
Shri		ned Tribes Certificate issue to
	of	
village/town	in District/Division	of the State/UT
who belongs to the State/Union Territory	caste/Tribe which	n is recognized as a SC/ST in the
	issued by the	(name of
the prescribed issuing authority) vie	de their No	dated
the prescribed issuing authority) vie	de their No.	dated and or his/her family ordinarily
the prescribed issuing authority) vie	de their Noof	dated and or his/her family ordinarily
the prescribed issuing authority) view or Shri or Shri reside(s) in Village/Town State/Union Territory of	de their Noof	dated and or his/her family ordinarily District/Division of the
the prescribed issuing authority) view or Shri reside(s) in Village/Town State/Union Territory of Place	de their NoofofSignature	dated and or his/her family ordinarily District/Division of the
the prescribed issuing authority) view or Shri reside(s) in Village/Town State/Union Territory of Place	de their Noof  Signature Designation	dated and or his/her family ordinarily District/Division of the
the prescribed issuing authority) viewers or Shri reside(s) in Village/Town State/Union Territory of Place Date NOTE: - The terms ordinarily reside(s)	de their Noof  Signature Designation	dated and or his/her family ordinarily District/Division of the  eal of Office)
the prescribed issuing authority) viewers or Shri reside(s) in Village/Town State/Union Territory of Place Date NOTE: - The terms ordinarily reside(s) the People Act, 1950.	de their Noofofofofof	dated and or his/her family ordinarily District/Division of the  eal of Office) s in Section 20 of the Representation of
the prescribed issuing authority) viewers or Shri reside(s) in Village/Town State/Union Territory of Place Date SC Certificate issued from Department and ST Cast Maharashtra Government	de their Noofofofofof	dated and or his/her family ordinarily District/Division of the  eal of Office) s in Section 20 of the Representation of ed by Social Welfare bal Development Department of
the prescribed issuing authority) viewers or Shri reside(s) in Village/Town State/Union Territory of Place Date SC Certificate issued from Department and ST Cast Maharashtra Government	Signature	dated and or his/her family ordinarily District/Division of the  eal of Office) s in Section 20 of the Representation of ed by Social Welfare bal Development Department of  (ICATE: Commissioner /Additional Deputy
the prescribed issuing authority) viewers or Shri reside(s) in Village/Town State/Union Territory of Place Date SC Certificate issued from Department and ST Cast Maharashtra Government State Majistrate/Additional State Commissioner/Dy.Collector/Commissioner/Taluka Magistrate/	Signature	and or his/her family ordinarily District/Division of the  eal of Office) s in Section 20 of the Representation of ed by Social Welfare bal Development Department of  CICATE: Commissioner /Additional Deputy Divisional Magistrate/Extra Assistant
the prescribed issuing authority) viewers or Shri reside(s) in Village/Town State/Union Territory of Place Date NOTE: - The terms ordinarily reside(s) the People Act, 1950. SC Certificate issued from Department and ST Cast Maharashtra Government State Commissioner/Dy.Collector/Commissioner/Dy.Collector/Commissioner/Taluka Magistrate/	of	dated and or his/her family ordinarily District/Division of the  eal of Office) s in Section 20 of the Representation of ed by Social Welfare bal Development Department of  CICATE: Commissioner /Additional Deputy Divisional Magistrate/Extra Assistan

# **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 CE	ERTIFICAT	ГЕ			
Recent Photograp Medical Board	oh of the ca	ndidate showing tl	he disability duly atte	sted by the Chairperso	on of the
This is	certified	that Shri/Smt./K	(um	son/wife/daughter	of Shri
	age	sex	identification mark(	s) is suffering from	
permanent disabi	lity of follo	wing category:			
A. Locomotor or	Cerebral P	alsy:			
(i) BL—Both leg	s affected b	out not arms			
(ii) BA—Both ar (b) Weakness of		I	(a) Impaired reach		
(iii) BLA—Both (iv) OL—One leg (b) Weakness of g (c) Ataxic	g affected (1		(a) Impaired reacl	n	
(v) QA—One arn Ataxic	n affected (	right or left)	(a) Impaired reach	n (b) Weakness of grip	o (c)
(vi) BH—Stiff ba	ick and hips	s (cannot sit or sto	ор)		
(vii) MW—Musc (i) B—Blind	cular weakn	ess and limited ph	ysical endurance. B. 1	Blindness or Low Vis	ion:
(ii) PB—Partially	blind				

(Delet	e the category whichever is not applicable	)
	This condition is progressive/non-progment of this case is not recommended/months.*	ressive/likely to improve/not likely to improvis
3.	Percentage of disability in his/her case is	s Percent.
4. discha	Shri/Smt./Kum arge of his/her duties:—	meets the following physical requirements for
	F—Can perform work by manipulating we PP—Can perform work by pulling and put L—Can perform work by lifting. KC—Can perform work by kneeling and B—Can perform work by bending. S—Can perform work by sitting. ST—Can perform work by standing. W—Can perform work by walking. SE—Can perform work by seeing. H—Can perform work by hearing/speaking. RW—Can perform work by reading and	ushing. Yes/No
Medic	mber Member al Board Medical Board ersigned by the Medical Superintendent/C	(Dr Chairman Medical Board MO/Head of Hospital (With seal)

Strike out whichever is not applicable.

C. Hearing impairment: (i) D—Deaf

(ii) PD—Partially deaf

#### **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 Science & Engg.	hod.cse@mnit.ac.in	2713418
7	Electrical Engg.	hod.ee@mnit.ac.in	2713398
8	Electronics & Communication Engg.	hod.ece@mnit.ac.in	2713222
9	Humanities & Social Science	hod.hum@mnit.ac.in	2713396
10	Management Studies	hod.dms@mnit.ac.in	2713345
11	Mathematics	hod.maths@mnit.ac.in	2713213
12	Mechanical Engg.	hod.mech@mnit.ac.in	2713330
13	Metallurgical & Materials Engg.	hod.meta@mnit.ac.in	2713140
14	Physics	hod.phy@mnit.ac.in	2713114
15	National Centre for Disaster Mitigation and Management	mkshrimali.ce@mnit.ac.in	2713364
16	Materials Research Centre	office.mrc@mnit.ac.in	2713568