

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

INFORMATION BROCHURE

for admission to

DOCTOR OF PHILOSOPHY- Ph.D.

II (Even) Semester 2011-12 (starting December 2011)



October 2011

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

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

IMPORTANT NOTE

The date for appearing in interview/test is 29th and 30th November 2011 at 10.00 A.M. The list of eligible students will be notified by 18th November 2011, ONLY through Institute website <http://academic.mnit.ac.in/phd>. The test/interview will take place in the respective department.

On-line filling of application form is MANDATORY. Thereafter, application form may be saved as pdf-file from the web site, printed and be sent along with the Demand Draft of Rs. 500/- (Rs. 250/- for SC/ST/PH category) in favour of the Registrar, MNIT, Jaipur payable at Jaipur.

For further information, please contact:

Office of

Dean, Academics

Malaviya National Institute of Technology

J.L.N. Marg, Jaipur (Raj.) –302017.

Ph. 0141-2529023 (Off)

Fax 0141-2529029 (Off)

E-mail: phd.mnit@gmail.com

Web Site: <http://academic.mnit.ac.in/phd>

1. INTRODUCTION

The 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 Regional 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 various departments. The Institute admits on an average about 942 students for undergraduate (B.Tech./B.Arch.) programmes and about 750 students for the postgraduate and research (M.Tech./M.Planning/M.Sc./MBA/Ph.D.).

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

The institute also offers full-time/part-time postgraduate programmes in Department of Engineering & Technology leading to the degree of Master of Technology in Water Resource Engineering, Environmental Engineering, Transportation Engineering, Disaster Assessment & Mitigation, Power Systems in Electrical Engineering, Electronics & Communication Engineering, VLS Design, Manufacturing System Engineering, Energy Engineering, Metallurgical & Materials Engineering, Chemical Engineering, Computer Engineering, Master of Planning (Urban Planning by Architecture Dept.) and Structural Engineering.

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

The institute offers Full-time/Part-time Ph.D. programmes in Civil, Chemical, Computer, Electrical, Electronics & Communication, Information Technology, Mechanical, Metallurgical & Materials, Structural Engineering, Management, Physics, Chemistry, Mathematics and Humanities & Social Sciences. These courses provide advanced learning of the subjects and develop manpower with expertise in selected fields of engineering and technology.

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.

2. 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 Grade Point Average of 5.5 is required to be maintained for satisfactory progress. Also 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 Institute's Prospectus, 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. She/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.

3. Ph.D. Programmes

The Objective

The Malaviya National Institute of Technology Jaipur (MNIT) offers Ph.D. degree through its various Departments. The award of Ph.D. degree is in recognition of high academic achievements, independent research and application of knowledge to the solution of technical and scientific problems in Science, Technology, Management and Humanities & Social Sciences. Creative and productive inquiry is the basic concept underlying the research work.

The academic programme leading to the Ph.D. degree is broad-based and involves a course credit requirement and a research thesis. The Institute also encourages interdisciplinary areas through a system of co-supervision and provides excellent opportunities for such programmes. The Institute undertakes sponsored research and development projects from industry and other organizations public as well as private sector.

The research work shall be an original work characterized either by the discovery of facts, or by a fresh approach towards the interpretation and application of facts, or development of equipment making a distinct advance in instrument technology. It shall evince the candidate's capacity for critical examination and sound judgment and shall represent original contribution to the existing knowledge.

The degree of Doctor of Philosophy is granted for research work in areas recognized by the academic departments of the Institute. The degree of Doctor of Philosophy will be awarded in the discipline of the department in which the candidate is registered.

3.1 Eligibility Requirements for Admission (Ph.D.)

A. Essential Requirements for Full-time Scholars

One of the following requirements is essential to be fulfilled by a candidate. Additionally he must possess the qualifications in the relevant field as given in Table-1. *The first and primary award/evaluation by a university/institution, whether % OR CGPA, will ONLY be considered for qualification check. [The institute conversion formula for percentage/CGPA conversion will be applicable as given below]*

- (a) Candidates holding Masters Degree in Engineering/Technology/Sciences/Management/Humanities & Social Sciences or equivalent with a minimum Cumulative Grade Point Average (CGPA) of **6.5** on a 10 point scale or equivalent as determined by the Institutes or having minimum **60%** marks in aggregate where marks are awarded (except in Humanities & Social Science where the requirement is first class with a minimum of **55%** marks or CGPA of **6.0**). For candidates belonging to SC/ST/OBC or physically handicapped category, the minimum requirement of percentage of marks in aggregate is **55%** and CGPA is **6.0** on a 10-point scale. The reserve category candidates must submit the required certificate from the competent authority as given in **Annexure-1** for SC/ST candidates, **Annexure-6** for OBC candidates [OBC candidate should include non-creamy layer certificate of current year] along with the duly completed application form.
- (b) In exceptional cases, applicants with B.Tech. Degree or equivalent in respective discipline with excellent academic record with a minimum cumulative grade point average (CGPA) of **8.5** on a 10 point scale or equivalent as determined by the Institutes wherever letter grades are awarded or 80% marks in aggregate where marks are awarded may be considered eligible for admission.

1. CGPA to Percentage conversion formulae

- On 10-point scale, *equivalent – percentage* = $\left[\frac{CGPA-0.5}{10} \right] \times 100 \%$
- On X-point scale, *equivalent – percentage* = $\left[\frac{CGPA-5\% \text{ of } X}{X} \right] \times 100 \%$

2. Percentage to CGPA conversion formulae

Percentage to CGPA on X-point scale,

$$\text{equivalent – CGPA} = \left[\frac{\text{Percentage marks}+5}{100} \right] \times X$$

- (b) If an applicant has been awarded research fellowship by any National/ International funding agency such as GATE/UGC/CSIR/NET etc. can be considered for admission (not mere lecturer-ship fellowship).
- (c) An employee sponsored by his / her employer may be considered for admission as a sponsored full time Scholar provided he/she has a minimum of 2 years experience and is treated by the employer as on duty with normal salary and allowances and is relieved for the period of study. He/She should produce sponsorship certificate as per proforma given in **Annexure-4** from the parent organization along with the application for admission to the programme failing which he/she will not be permitted to appear for the admission interview.

B. Part Time Scholars

- (a) A candidate can be considered for part time admission if he/she has 2 years experience and fulfils the eligibility conditions defined in 3.1 A (a) or (b). He/She should produce No-objection certificate as per proforma given in **Annexure-5** from the parent organization along with the application for admission to the programme failing which he/she will not be permitted to appear for the admission interview.
- (b) Permanent employees of the Institute or employees of sponsored projects, with one-year experience can be considered for part time registration provided he/she has been given administrative clearance by the Director of the Institute. Temporary/ contract academic staff of the Institute as well as staff of schemes may be given administrative clearance to such admission on part time basis at any time after joining service subject to recommendation of Dept. for Institute employees and Principal Investigator in case of scheme employees.

3.2 Other conditions for various categories:

A. Regular Candidates

Final year/semester students whose result is awaited are also eligible to apply. Such candidates are required to submit a certificate (as per proforma given in **Annexure-2** or **Annexure-3**) along with the application.

Candidates on **study leave** for a period of not less than three years for pursuing Ph.D. Programmes are also eligible to apply for admission to Ph.D. programme. They have to submit the relevant certificate from their Head of the Institution/organization.

Foreign candidates who fulfill the qualifications equivalent to educational qualifications required for admission to Ph.D. programme in the relevant discipline should apply:

- (a) Through Indian Embassy in their country provided they are awarded ICCR scholarship from Govt. of India.
- (b) Through Embassy of the respective Govt. after getting approval from Ministry of External Affairs and no objection certificate from MHRD, Dept. of Education, Govt. of India or admitted under an MOU.

Foreign candidates are required to undergo medical examination as per medical rules of the MHRD.

B. Part time Student/ Candidate

- (a) The candidates must possess the entry qualifications in the relevant discipline for the admission to Ph.D. programme.
- (b) The candidate must prove to the satisfaction of the Departmental Research Committee (DRC) that his/her official duties permit him to devote sufficient time for research. The candidate must submit from his/her Head of the Institution/organization a "No objection certificate" as per **Annexure- 5** along with the application.
- (c) For candidates working outside Jaipur city, she/he will be required to reside at the institute for a period not less than a semester during his/her registration for the degree. If the course credit requirement recommended by a Dept. is not completed within 6 months the residency requirement for part time Ph.D. students may be more than 6 months till she/he completes credits requirement.
- (d) If facilities for pursuing research are available at the applicant's parent organization/place of work in the chosen field of research, such candidate, after completion of comprehensive examination may carry out research work in her/his parent organization with an external supervisor from her/his parent organization apart from an internal Institute supervisor. Such candidate will be treated as external candidate.
- (e) The facility of part-time registration will be available only to candidates working in Academic Institutions, R & D organizations and Public sector units for at least two years.
- (f) **No self-sponsored candidate will be admitted to part-time Ph.D. programme.**

Table 1: Minimum qualification(s)

Department	Minimum Educational Qualification in a relevant field
Civil Engineering	M.E./M.Tech. or equivalent degree in respective and relevant engineering discipline
Structural Engineering	B.E./B.Tech. Civil and M. Tech. (Structural Engineering/ Geotechnical/ Rock Mechanics/Earthquake Engineering or any other relevant field of Civil Engineering)
Chemical Engineering	B.Tech./M.Tech. (with Mathematics at 10+2 level) or equivalent degree in Chemical Engineering, OR B. Tech./M.Tech. or equivalent degree in any branch of Engineering/Chemical Technology and interdisciplinary areas, OR M.Sc. with Mathematics at B. Sc. Level in disciplines consistent with the research areas of the department.
Chemistry	M.Sc. in Chemistry/Medicinal/Pharmaceutical/ Environmental and related disciplines with chemistry as one of the optional subject
Electrical Engineering	M.E./M.Tech. or equivalent degree in respective & relevant Engineering disciplines
Computer Engineering/ Information Technology	B.E./B.Tech. in Electrical Engineering/Electronics & Communication Engg./Electronics Instrumentation and Control/Computer Science and Engineering/Computer Engineering/Electrical and Electronics Engineering/Information Technology/Communication and Computer Engineering and M.E./M.Tech. in Computer Science and Engineering/Computer Engineering/Information Technology/VLSI. All the candidates are expected to have sound mathematical, computational background and relevant programming skills.
Electronics & Communication Engineering	B.E./B.Tech. and M.E./M. Tech. In 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 55% marks (or equivalent grade) Master's degree in Science with 60% marks (or equivalent Grade) 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. OR 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/Chemicals/ Cermic/P&I and M.E./M.Tech. degree in Metallurgical/ Materials/ Ceramic, M.Sc. in Physics/Materials Science/ Chemistry (provided mathematics as subject at B.Sc. level)
Physics	M.Sc. in Physics/Applied Physics/Engineering Physics/allied areas of Physics/interdisciplinary areas in physical sciences and technology
Management Studies	M. Tech./M.B.A. or equivalent, B.E./B.Tech./ B.Arch./ B.Pharma/ M.Sc./ M.C.A. or equivalent

Table 2: Vacancies in various Departments

Department	Major Areas of research	Minor Areas of research	Vacancies (Slots)
Civil Engineering	Environmental Engg.; Water Resources Engg.; Transportation Engg.; Remote Sensing & GIS; Building Materials & Technology; Highway Materials;	Bio Processes; Indoor air pollution; Environment & Health;	02
		Transportation Engg.;	-
		Optimal System Design & Operation	02
		Water resource engg; Remote Sensing & GIS applications	01
		Water resource engg; Remote Sensing & GIS applications; optimization	-
		Building Materials & Technology;	02
		Water Management; water & Waste Water Treatment; Solid Waste Management; Water Pollution;	-
		Environmental engg.	06
		Water & Environment;	03
		Water management	02
Structural Engineering	Structural Engg.; Geotechnical Engg.	Earthquake resistant Design; Seismic Control Methods; Design of RC and Steel Structures;	03
		Artificial Intelligence; Tall Buildings;	02
		Concrete Technology;	-
		Earth quake engg.; Rehabilitation & Failure of Structures; Structural Control Methods; Concrete Technology;	03
		Service Load Behavior; Composite Structures; Soft Computing;	-
		Ground Improvement Technologies; geo-technology engg.	-
		Artificial intelligence	02
Chemical Engineering	Modeling & simulation; mass transfer; bio-fuels; industrial pollution abatement; enzymatic fat processing; advanced process control; polymer science & engg.;	Polymer science & engg.; modeling & experiments in CRF	03
		Biofuels; membrane separation & enzymatic fat processing	02
		Environmental engg; heterogeneous catalysis; biotechnology	½
		Adsorption and membrane separation	03
		Waste water treatment; modeling & simulation of separation process	03
		Water & waste water treatment; process; Modeling & simulation of chemical engg. Process; separation process; application of artificial neural network in engg. Process control; colloid & interfacial science	04
		Modeling & simulation; advanced process control	1½
		Bio-fuels; modeling & simulation; adsorption; catalysis; bioprocess engg.	04
		Modeling & simulation; thin films; micro-fluidics; agro-process engg.; energy engg.	04
		Chemistry	Inorganic Chemistry; Organic Chemistry; Physical Chemistry;
Corrosion; Synthetic Chemistry; Green Chemistry	01		
Hetero Cyclic Chemistry; Organic Synthesis; Green Chemistry	02		
Ceramic Chemistry; Organic Chemistry; Hetero Cyclic Chemistry	03		
Electrical Engineering		Power Electronics & Drives; Renewable Energy Sources;	½
		Energy Systems; Smart Grid;	½
		Power Systems;	3½
		Power Systems; Distribution System Automation; Stability and Control; AI application to power Systems;	1½
		Electromechanical Energy Conversion and Renewable Energy Sources;Power Systems;	02
		Power System Operation and Control;	01
		Power Electronics & Drives; Power Systems; non-conventional energy sources	01
		Intelligent System Optimization and Application to Power Engineering	1½
		Power System Economics; Electricity Markets	02
Computer Engineering/ Information Technology		Network-on-Chip, Computer Network, Network Security	02
		Information Security, Image Processing, Digital Forensics	2½
		Intelligent Systems, Software engg.	3½
		Image processing and pattern matching. Image security and authenticity. Computer graphics and 3D Modeling Computer Architecture.	04
Electronics & Communication Engineering	Analog & digital Electronics, VLSI; Integrated circuit design; Architecture of large systems;	Analog & digital electronics; VLSI	½
		System level design & modeling, interconnect modelling/synthesis; CAD VLSI; Machine learning approaches; Formal verification of HW & SW;	1½
		Analog macromodeling, RF ICs, CMOS systems & circuits;	04
	Communications;	Optical comm., photonics; photonic crystals	1½
		Microwave communication, high frequency devices, mobile communication;	04
Signal processing, Image processing;	Electromagnetics;	01	

Department	Major Areas of research	Minor Areas of research	Vacancies (Slots)
Humanities and Social Sciences	English Language and Literature; Political Science Public Administration; Sociology; Management; Economics.	Political Science Public Administration; Sociology; Management;	-
		English Language Teaching; British Drama and Fiction; Modern Theatre;	-
		Economics; Management;	1½
		English Language Teaching; Indian Drama & Fiction; Literary Theory; Indian Writing in English; Diasporic Writing;	-
Mathematics	Information Theory; Statistics & Probability; Special Functions; Integral Transform; Fractional Calculus; Operations Research; Fluid Mechanics; Computer Programming	Information Theory; Statistics & Probability	03
		Special Functions; Integral Transform; Fractional Calculus;	14
		Operations Research;	03
		Fluid Mechanics;	04
		Fluid dynamics; Computer Programming	03
Mechanical Engineering		Boiling nanofluids	-
		Energy conservation in buildings/passive cooling; modelling of energy policy and systems	02
		I.C. engines; thermal engineering	04
		Alternate fuels; Energy simulation	01
		quality management; productivity improvement; product development and operation management	01
		Multibody dynamics; optimization; balancing of mechanisms including robots	03
		Product development and Quality Engineering	2½
		Project Management and Scheduling; Supply Chain Management; AI applications in OM	03
		Industrial engineering; ergonomics	1½
		Manufacturing Strategy; Supply Chain management; Performance Measurement; Productivity Improvement	-
		Energy Policy Modelling; Energy Conservation Planning & Policy; System Dynamics Modelling	03
		Solar thermal energy; Refrigeration	01
		Alternate fuels; Energy simulation	02
Supply chain management; quality system management; optimization management; advance machining systems	01		
Metallurgical & Materials Engineering	Powder Metallurgy; Composite Materials; Casting Technology; Heat Treatment; Rapid Solidification; Physical Metallurgy, Foundry; Physical Metallurgy; Engg. Materials; Extractive Met.; Corrosion & Surface Coating	Materials engg.	02
		Nano-structured Materials; Materials Science;	3½
		Heat Treatment; alloy development;	04
		Composite Materials;Rapid Solidification; Tribological Behaviour; Characterisation of Materials;	03
		Materials Science;	08
		Powder metallurgy	04
		Rapid Solidification; Mechanical Metallurgy;	04
		Materials Science; Plasma Processing of Materials.	04
		Mechanical Metallurgy;	3½
Physics	Plasma Science Materials Science	Energy loss processes in plasma & studies in surface modification effects	03
		Surface/interface studies of crystalline/amorphous materials	02
		Electrochemical studies of amorphous metallic glasses/study of gas sensing behavior of semi-conducting thin films.	02
Management Studies	Management related aspects	Operations management	06
		Supply chain management	
		Operations reengineering	
		Managerial economics	1½

4. ADMISSION PROCEDURE

4.1 Admissions to Ph.D. programmes

The admission to Ph.D. programme for the year 2011-12 (starting December 2011) will be carried out on the basis of the fulfillment of requirements by the candidates and availability of the supervisor to supervise the proposed research work. The short-listing of candidates for the purpose of admission will be done by the respective department. Please refer to Institute Prospectus on the MNIT Jaipur website for Department and Faculty profiles- <http://academic.mnit.ac.in/academic>.

4.1.1 Requirement for Award of Ph.D. Degree

The Ph.D. programme consists of two stages. In stage 1, the research scholar will be treated as a provisional student and he/she is to complete the credit requirement as given in **Table 3**. Followed by this, the student has to take a comprehensive and oral examination. In the second stage, the research scholar who has successfully passed the comprehensive examination will be formally registered as a candidate for Ph.D. degree.

Table 3: Course credit requirements

S. No.	Candidate Having	Minimum Credit Requirements
1	M.Tech. or Equivalent OR MBA with B. Tech./B.Arch./B.Pharma/ M. Sc./ MCA (for management only)	(2 full courses) 06 credits
2	B.Tech./M.Phil/M.Sc./M.B.A./M.A. or equivalent	(4 full courses) 12 Credits

Offer of Admission

The candidates will be offered admission on the basis of selection criterion set by DRC of respective department, which includes test and interview. The candidates will have to accept the offer in the Performa given to them at the time of admission/registration i.e. on 20th December 2011. The candidates will be required to deposit the fees as prescribed by the institute on the same date failing which the admission is liable to be cancelled. The offer of admission will be provisional subject to submission of all the required documents in original by the dates specified.

5. General Information

- A student who is admitted and registered for a postgraduate programme at the Institute but leaves after completing or discontinued his/her studies, shall not be admitted to a programme at the same level.
- The institute reserves the right to change its statutes and regulations relating to academic programmes and the modalities of admission without prior notice.
- Candidates belonging to SC/ST/PH/OBC (the proper format for SC/ST/OBC is given in Annexure-1 and 6) must submit along with application form the requisite certificate as applicable from the competent authority, as per list given in Annexure-1 in case of SC/ST and Annexure-6 in case of OBC, failing which their candidature will not be considered under Reserved Category. OBC candidate must submit non-creamy layer of current year failing which they will be considered in general category.
- There is no age restriction for postgraduate programme.
- In matters of interpretation of the provisions or any matter not covered here in this information brochure, the decision of the Chairman, Senate shall be final and binding on both the parties.

The institute reserves the right to alter the number of seats in any programme without any prior notice. 3.0% of the total seats are reserved for PH category in every programme over and above the sanctioned strength without assistantship.

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 her/his 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.
- (4) Physically handicapped candidate 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 date for appearing in interview/test is 29th and 30th November 2011 at 10.00 A.M. The list of eligible students will be notified by 18th November 2011 ONLY through Institute website <http://academic.mnit.ac.in>. The test/interview will take place in the respective department.**

6. Financial Assistance

6.1 Financial Assistance for Ph.D. programmes

Financial assistance can be considered for full time scholars on the basis of merit. Duration of the assistantship will normally be up to 4 years, but can be extended for another one year under special circumstances on case-to-case basis. A student receiving assistantship will be required to devote at least eight hours per week towards the departmental or Institute work assigned to him/her. If assistantship from the Institute is not available, students can be admitted on self-finance basis. The assistantship for full time research scholars will be as follows.

Those receiving fellowships from sponsored projects or from any other funding agencies such as the Council of Scientific & Industrial Research (CSIR), Department of Atomic Energy (DAE), University Grants Commission, etc. will not be eligible for the Institute assistantship.

Table 4: Financial Assistance

Qualifying Degree	Revised Rates
Graduate Degree in Professional Courses (B.E./B.Tech or Equivalent and GATE or equivalent qualification	1 st and 2 nd year Rs. 16000/- p.m.
Or	
Post Graduate Degree in Basic Science (M.Sc. or Equivalent) and NET qualified	Upto 5 th year Rs. 18000/- p.m.
Post Graduate Degree in Professional Courses (M.E./M.Tech. or Equivalent)	1 st and 2 nd year Rs. 18000/- p.m.
	3 rd and 4 th year Rs. 20000/- p.m.

Travel grants will be admissible to the full time research scholars who have been awarded the Institute assistantship.

7. Fees

7.1 Fee Structure for Ph.D. students

Institute dues payable by 2011-12 entry students as **Full Time-**

	General		SC/ST	
	At the time of registration	Subsequent Semester	At the time of registration	Subsequent Semester
Hosteller	48400.00	36850.00	30900.00	19350.00
Non-Hosteller	29400.00	22850.00	11900.00	5350.00

Institute dues payable by 2011-12 entry students as **Part Time-**

	General		SC/ST	
	At the time of registration	Subsequent Semester	At the time of registration	Subsequent Semester
Non-Hosteller	29150.00	22600.00	11650.00	5100.00

All fee is to be deposited by Demand Draft on the date of registration. In case, the fee structure is revised by the institute at any time during the course of studies it will be binding for all the candidates.

7. 2 Hostel Accommodation

Limited hostel accommodation for students taking admission in regular (Full-time) courses may be available in the institute campus and the same will be allotted on the basis of their admission merit.

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.

8. REGISTRATION

A system of registration is followed for all the students joining the institute. The selected candidates will have to register personally on the date of registration after depositing the required fees as applicable from time to time. At the time of registration, the candidate is required to fill-up registration Form/Card and get himself/herself registered. After registration, students should report to the concerned Head of the Department and submit the joining report. The proof of joining the institute shall be the registration card and the fee receipt. Assistantship will be granted only after receiving the joining information from the departments and the undertaking as per the institute norms (wherever applicable). Regular classes will start as per the time schedule (Academic Calendar of the Institute) declared by the institute.

8.1 Cancellation of Admission

The institute has the right to cancel, at any stage, the admission of a candidate who is found admitted to a course to which he/she is not entitled, being unqualified or ineligible in accordance with the ordinances and statutes in force.

8.2 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.

8.3 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.

9. 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. **Application form may be downloaded from the web site and be sent alongwith the Demand Draft of Rs. 500/- (Rs. 250/- for SC/ST/PH category) in favour of the Registrar, MNIT, Jaipur payable at Jaipur.**
- c. **On-line filling of form is MANDATORY.**

- d. The duly filled & completed on-line application form along with all the required annexure and copy of documents should be sent to the following address.

Dean, Academics
Malaviya National Institute of Technology
J.L.N. Marg, Jaipur (Raj.) –302017

Ph. 0141-2529023, 2713205 (O)
Fax 0141-2529029(O)
E-mail: academic[AT]mnit.ac.in
Web Site: <http://academic.mnit.ac.in>

Electronics submission of forms is MANDATORY.

- e. The candidate must keep a photocopy of the form for future reference.
- f. Application forms found incomplete will be rejected without any discussion with the candidate and no correspondence will be entertained in this regard.
- g. Application form should be neatly and legibly filled by the candidate in his/her own handwriting. Fill each column strictly as per the information desired in the column.
- h. Attested photostat copies of the certificates/testimonials should be enclosed with **the Application Form. The original certificates/testimonials must be brought at the time of interview.**
- i. Application Form either incompletely filled or without attested copies of the certificates/testimonials is liable to be rejected.
- j. Attested photostat copies of the following certificates have to be enclosed along with the Application Form:
- 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.
 - Provisional/Final Degree certificate/Migration Certificate in original must be attached.
 - The Marks Sheet/Grade Card of Qualifying Examination.
 - Character Certificate from the Director/Dean of Students Affairs of the Institute from where the candidate has graduated (For Full-time course applicants only).
 - Character Certificate from two persons of repute where the candidate has been residing for the last two years (For part-time course applicants only).
 - Certificate from the employer on the official stationary and rubber stamp of the organization/institution (For full-time/part-time sponsored candidates only).
 - GATE score card. (For full-time regular candidates).
- k. **Original certificates will be required at the time of personal interview / counselling before the Admission Committee. In case, the candidate fails to produce the original certificates at this time, he/she will not be considered for admission.**
- l. If the candidate is seeking admission under the reserved category, he/she should produce the original certificate along with the application.
- Two recent passport size photographs should be brought.
 - Health Certificate (in the proforma enclosed with the application form).
- m. The selected candidates are required to deposit fees as mentioned in at the time of counselling in the form of bank draft drawn on a scheduled bank in Jaipur in favor of the Registrar, Malaviya National Institute of Technology Jaipur. No other mode of payment is acceptable. In case, the candidate having been offered admission does not join or discontinues after joining, the amount excluding caution money will be forfeited.
- n. The candidate has to make his/her own arrangements for staying at Jaipur when he/she comes for the counselling and/or interview. No TA and DA are admissible.
- o. 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.

Annexure 1

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 2

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./ M.Sc./M.E./M.Tech./.....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 2011. 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 3

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 Ph.D. 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./ M.Sc./M.E./M.Tech.. (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 2011. 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 Ph.D. programme 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.

If selected for admission, the Institution/Organization would relieve him/her immediately for joining the above course,. We shall fully relieve him/her duties in the organization during the entire period of the Ph.D. programme to enable him/her to devote full time to the studies and the sponsorship for admission will not be withdrawn midway till completion of the course. Our enterprise is registered in a stock exchange/had an annual turnover of over Rs. 5.0 crores in the past two years (for candidates working in a firm / company / industry).

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

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 Ph.D. 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 release him/her during working hours to undergo the programme as per MNIT, Jaipur time-table. We understand that the duration for part time Ph.D. is expected to be 5 years.

It is noted that normal instructional hours are from 8.00 a.m. to 5.00 p.m. and also some courses may be held in extra time slots.

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

OBC CERTIFICATE**ANNEXURE-6**

IMPORTANT: This certificate should be of current year, i.e. of a date later than 31st March 2011 and should be compulsorily based on income of the year 2010-2011.

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

This is to certify that son/daughter of of village.....district/divisionin state belongs tocommunity which is recognised as a backward class under:

- 1) Resolution No.12011/68/93-BCC© dated 10th September 1993, published in the Gazette of India - Extraordinary - part 1, Section 1, No.186 dated 13th September 1993.
- 2) Resolution No.12011/9/94-BCC dated 19th October 1994, published in the Gazette of India - Extraordinary - part 1, Section 1, No.163, dated 20th October 1994.
- 3) Resolution No.12011/7/95-BCC, dated 24th May, 1995, published in Gazette of India - Extraordinary - part 1, Section 1, No.88, dated 25th May 1995.
- 4) Resolution No.12011/44/96-BCC, dated 6th December 1996, published in Gazette of India - Extraordinary - part 1, Section 1, No.210, dated 11th December 1996.
- 5) Resolution No.12011/68/93-BCC, published in Gazette of India - Extraordinary - No.129, dated the 8th July 1997.
- 6) Resolution No.12011/12/96-BCC, published in Gazette of India - Extraordinary - No.164, dated the 1st Sept 1997.
- 7) Resolution No.12011/99/94-BCC, published in Gazette of India - Extraordinary - No.236, dated the 11th Dec 1997.
- 8) Resolution No.12011/13/97-BCC, published in Gazette of India - Extraordinary - No.239, dated the 3rd Dec 1997.
- 9) Resolution No.12011/12/96-BCC, published in Gazette of India - Extraordinary - No.166, dated the 3rd Aug 1998.
- 10) Resolution No.12011/68/93-BCC, published in Gazette of India - Extraordinary - No.171, dated the 6th Aug 1998.
- 11) Resolution No.12011/68/98-BCC, published in Gazette of India - Extraordinary - No.241, dated the 27th Oct 1999.
- 12) Resolution No.12011/88/98-BCC, published in Gazette of India - Extraordinary - No.270, dated the 6th Dec 1999.
- 13) Resolution No.12011/36/99-BCC, published in Gazette of India - Extraordinary - No.71, dated the 4th April 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.....and/or his family ordinarily reside(s) in the..... District/ Division of theState. 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 OM NO.36012/22/93 -Estt (SCT), dated 8.9.1993.) which is modified vide OM No. 36033/3/2004 Estt. (Res.) dated 09/03/2004 or the latest notification of the Government of India.

This certificate is being issued based on the annual income / status of the parents/ guardian of the applicant as on financial year ending March 31, 2011.

Dated:

DISTRICT MAGISTRATE/DY.COMMISSIONER ETC.

Seal

NB: (a) The term 'ordinarily' used here will have the same meaning as in section 20 of the Representation of Peoples 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 / 1st class Stipendiary magistrate / Sub - Divisional Magistrate / Taluk Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of 1st class Stipendiary Magistrate). (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate/ Presidency Magistrate. (iii) Revenue Officer not below the rank of Tahsildar, and (iv) Sub- Divisional Officer of the area where the Candidate and or his family resides.

Declaration / undertaking (for OBC Candidates only)

I, _____ Son/Daughter of Shri _____, resident of village/town/city _____ district _____ State _____ hereby declare that I belong to the _____ community which is recognized as a backward class by the Government of India for the purpose of reservation in services admission in Central Government Institutions 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 or the latest notification of the Government of India.

I also declare that the condition of status/annual income for creamy layer of my parents/guardian is within prescribed limits as on financial year ending on March 31, 2011.

Place: Signature of the Candidate

Date:

Declaration / undertaking not signed by Candidates will be rejected