

Information Brochure

**M.Tech., M.Sc., MSW and Ph.D. Admissions
for
Academic Session 2011-12**



**Motilal Nehru National Institute of Technology, Allahabad
Allahabad-211004 (India)**

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☞ The candidates are advised to read information brochure carefully and visit our website www.academics.mnnit.ac.in/admission regularly for updates.

☞ For On-campus physical reporting a candidate has to register with a fee of

- ₹ 24,238/- for M.Tech. (Full-time)
- ₹ 20,000/- for M.Tech. (Part-time)
- ₹ 8,750/- for M.Sc. (Mathematics and Scientific Computing)
- ₹ 8,750/- for Master of Social Work
- ₹ 8,600/- for Ph.D. (Full-time: Institute Research Scholar)
- ₹ 6,638/- for Ph.D. (Self Finance)

☞ In case of any legal dispute the jurisdiction will be limited to Allahabad courts only (Lower, District and High Court) and will not be subject to the jurisdiction of any other courts outside Allahabad.

☞ As it is evident that the attempts have been made to make it more convenient for the students and for that a lot of additional efforts are involved. Kind cooperation from all corners is solicited.

1. PROGRAMMES OFFERED

The Institute admits more than 800 students to undergraduate programmes and 500 students to postgraduate programmes every year. Students from other countries such as Sri Lanka, Nepal, Bangladesh, Mauritius, Bahrain, Malaysia, Iran, Yemen, Iraq, Bhutan, Syria, Palestine, Mongolia, Ireland, Indonesia and Thailand also join MNNIT for these programmes.

The programmes offered by the Institute leading to various degrees are given as under.

1.1. Master of Technology

Duration: 2 Years (4 semesters)

a. Applied Mechanics Department

1. M.Tech. Applied Mechanics
2. M.Tech. Materials Science and Engineering
3. M.Tech. Fluids Engineering
4. M.Tech. Biomedical Engineering
5. M.Tech. Biotechnology

b. Civil Engineering Department

1. M.Tech. Civil Engineering (Environmental Engineering)
2. M.Tech. Civil Engineering (Geo-Technical Engineering)
3. M.Tech. Civil Engineering (Structural Engineering)

c. Computer Science and Engineering Department

1. M.Tech. Computer Science & Engineering
2. M.Tech. Software Engineering
3. M.Tech. Information Security

d. Electrical Engineering Department

1. M.Tech. Electrical Engineering (Control & Instrumentation/Power Systems)
2. M.Tech. Electrical Engineering (Power Electronics & ASIC Design)

e. Electronics and Communication Engineering Department

1. M.Tech. Electronics Engineering (Digital Systems)
2. M.Tech. Electronics Engineering (Microelectronics and VLSI Design)

f. Mechanical Engineering Department

1. M.Tech. Mechanical Engineering (Design)
2. M.Tech. Mechanical Engineering (Production Engineering)
3. M.Tech. Mechanical Engineering (Computer Aided Design and Manufacturing)
4. M.Tech. Mechanical Engineering (Product Design & Development)

g. GIS Cell

1. M.Tech. (GIS & Remote Sensing)

1.2 Other PG Programmes

a. Mathematics Department

Master of Science in Mathematics and Scientific Computing

Duration: 2 Years (4 semesters)

b. School of Management Studies

Master of Business Administration (MBA)

Duration: 2 Years (4 semesters)

Admission through CAT

c. Computer Science and Engineering Department

Master of Computer Applications (MCA)

Duration: 3 Years (6 semesters)

Admission through NIMCET

d. Humanities & Social Sciences

Master of Social Work (MSW)

Duration: 2 Years (4 semesters)

1.3. Ph. D. programmes

All the departments offer full time and part time doctoral programmes under following categories. The category code is also given in the table below:

Description	Category Code	Description	Category Code
Full-time research students:		Part –time research students	
i. Institute research scholar (stipendiary)	11	i. Faculty/Staff and Project staff of MNNIT Allahabad	21
ii. Sponsored candidates	12	ii. Sponsored candidates	22
iii. Self financed (Indian/Foreign/ Study Leave) candidates	13	iii. Self financed candidates	23
iv. Indian Council for Cultural Relations (ICCR) and other agencies awardees (foreign nationals).	14	iv. Candidates registered under collaborative research programme between MNNIT and other University, R&D organisation in India or abroad.	24

1.3.1 Full-time research students

i. Institute research scholar (stipendiary) (Category Code - 11):

Full-time Stipendiary research scholars are eligible for financial assistance in the form of teaching or research assistantships (referred to as Institute Assistantships). The Assistantship shall be awarded to Ph.D. students on a semester-to-semester basis for a period of up to six semesters and is extendable by two semesters on the recommendation of DPGC and SPGC. Such students are expected to devote at least eight hours per week towards job(s) assigned to them by the department, which may include class work, evaluation of answer books or any other job as assigned by the Department/Institute. The renewal of assistantship is dependent on the satisfactory student's academic performance and discharge of duties as assigned to him/her by the department.

A student on teaching/research assistantship is also reimbursed a contingency expense as per the approved terms and procedures to be notified from time to time by the Institute. The reimbursement is done twice annually during the period of assistantship.

Wherever the eligibility qualification is Master's degree in Science or Commerce or Economics or English or any subject of Humanities or Life Sciences or Management, NET qualification is must for getting Institute Fellowship as per letter F.No. 25-2/2010-TS.II, dated 30.09.2010 and subsequent modifications which may be issued by MHRD from time to time.

ii. Sponsored candidates (Category Code - 12):

QIP and Sponsored full time students usually receive financial support from Govt./Semi Govt. schemes/Organisations such as CSIR, AICTE, UGC, DAE, DST, DBT, NBHM, etc. and recognized R&D organization for doing research work in the Institute. Candidates in service are to be released from the organisation for full time research work at the Institute and must furnish a sponsorship certificate from the employer. They shall not receive any financial support from the Institute in any form.

iii. Self financed (Indian/Foreign/Study Leave) candidates (Category Code - 13):

a. Indian: Such category of students are admitted along with the regular research students through the common admission procedure. They do not get financial support in any form from the Institute. These candidates shall be available full time in the Institute and may be using the facilities in the department as and when allowed.

b. Foreign: These students are admitted through Embassy of their countries after getting approval from the Ministry of External Affairs, the Ministry of Home Affairs and the Ministry of Human Resource and Development, Government of India.

c. Study leave: This category refers to the students who are not sponsored but released from Government Departments or educational Institutions on study leave or extraordinary leave for a period not less than the minimum specified period for doing research work at the Institute. However, a No Objection Certificate from employer should be produced at the time of joining.

iv. Indian Council for Cultural Relations (ICCR) and other agencies (foreign nationals) (Category Code - 11):

These students are sponsored by their Governments and awarded scholarship by Govt. of India, ICCR and other such agencies/organisation. They should apply for admission through Indian Embassy in their country.

1.3.2 Part-time research student

All the candidates admitted under this Category must fulfill one semester residential requirement at the Institute preferably for course work.

i. Institute Faculty/Staff and Project staff of MNNIT Allahabad (Category Code - 21):

This category refers to the students who are employees of the Institute and are admitted to the Ph.D. programme.

Project staff are those candidates who are working on the various projects undertaken by the Institute and are admitted to the Ph.D. Programme.

ii. Sponsored candidates (Category Code - 22):

a. Any candidate admitted under this category will be at par with Full-time Sponsored candidates for the payment of fees.

b. These candidates must fulfill one semester of residential requirement at the Institute. These candidates will have one supervisor from the Institute (Internal) and the other from their parent organization (External). While the requirement of Institute supervisor is a must, the external supervisor is optional depending on the availability.

Those candidates who are from such organisations/institutes where adequate laboratory facilities are not available (as assessed by the supervisor at MNNIT Allahabad), are required to spend a minimum of 60 days at MNNIT Allahabad, for completing research/laboratory work during the entire programme. These 60 days are additional to the residential requirement of one semester.

iii. Self-financed candidates (Category Code - 23):

Candidates admitted under this category will be at par with Full-time Self-financed candidate for the payment of fees. However, for foreign candidates except the change in the tuition fee other components of the fee structure will be applicable. The candidates of this category will be governed by the **Clause 2. ii. (b) for Sponsored candidates**.

iv. Candidates registered under collaborative research programme between MNNIT and other University, R & D organization in India or abroad (Category Code - 23):

Candidates working in approved Indian/ Foreign educational institutes or recognized R&D organizations, which are equipped with the necessary research and library facilities, may be considered for admission to the Ph.D. programme in engineering and management. The educational institutes located in India must be approved by AICTE. The students of this category will be governed by the **Clause 2. ii. (b) for Sponsored candidates**.

2. Eligibility for Admission

- (i) **The eligibility conditions given below are the absolute minimum. Departments may prescribe any other requirements over and above the absolute minimum, subject to the approval of the SPGC.**
- (ii) The "specified minimum" marks/CPI (Cumulative Performance Index), referred to in subsequent sections, implies a minimum of 60% aggregate marks or equivalent CPI for M.Tech. and Ph.D. at qualifying examination. For SC/ST candidates eligibility in specified minimum marks is relaxed to 55% or equivalent.
- (iii) **Reservation:** For M.Tech. programmes presently 27% seats are reserved for OBC candidates, 15% seats are reserved for the Scheduled Castes candidates and 7.5% seats are reserved for the Scheduled Tribes candidates. For persons with physical disability (PD) 3% seats are reserved as prescribed by Government of India.

2.1 M.Tech.

The applicant must have a Bachelor's degree in Engineering or a Master's degree in appropriate discipline with marks/CPI not below the specified minimum. The admission to M.Tech. programme will be based on the Percentile/Score secured by the candidate at the Graduate Aptitude Test in Engineering (GATE). (Eligibility requirement for various programmes and number of seats are given subsequently.)

2.2 Ph.D. in Engineering

The applicant must have Master's Degree in Engineering/Technology with a minimum of 60% marks or equivalent CPI. For SC/ST candidates eligibility in specified minimum marks is relaxed to 55% or equivalent.

OR

Applicants with Bachelor's Degree in Engineering with minimum 75% or equivalent CPI (70% marks or equivalent for SC/ST candidates) shall only be considered for admission.

OR

Applicants with Master's degree in Applied Sciences or any appropriate discipline with First Class with NET/UGC/CSIR/GATE or any other equivalent qualifying score shall be considered for admission. However in case of exceptionally qualified candidate the requirement of NET/UGC/CSIR etc may be waived off, but such candidates will not be entitled for fellowship.

2.3 Ph.D. in Management

Applicants must have Master's Degree in Management/Technology/Engineering/Economics/Commerce/Science/Computer Applications/Social Science with a minimum of 60% marks or equivalent. For SC/ST candidates eligibility in specified minimum marks is relaxed to 55% or equivalent.

OR

Applicants with Bachelor's degree in Engineering with a minimum of 75% marks or equivalent CPI (70% or equivalent for SC/ST candidates) shall only be considered for admission.

2.4 Ph.D. in Physics, Chemistry, Mathematics, Humanities and Social Sciences (HSS)

Applicants must have a Master's degree in the relevant subject with a minimum of 60% Marks or equivalent. For SC/ST candidates eligibility in specified minimum marks is relaxed to 55%.

OR

Applicants with Bachelor's degree in Engineering or in an allied field of HSS with marks not below 75% or equivalent (70% marks or equivalent for SC/ST candidates).

2.5 Ph.D. in GIS Cell

M. Tech. or equivalent in GIS & Remote Sensing/Civil Engineering/Comp. Sc.& Engineering/Information Technology/Agricultural Engineering/Mining Engineering or M.Sc. degree in GIS & Remote Sensing/Applied Geology/Geophysics/Geography/Environmental Science/Computer Science or degree in Master of Computer Application. For SC/ST candidates eligibility in specified minimum marks is relaxed to 55%.

Wherever the eligibility qualification is Master's degree in Science or Commerce or Economics or English or any subject of Humanities or Life Sciences or Management, NET qualification is must for getting Institute Fellowship as per letter F.No. 25-2/2010-TS.II, dated 30.09.2010 and subsequent modifications which may be issued by MHRD from time to time.

3. Eligibility requirement and number of available seats in M.Tech./M.Sc./MSW programmes (Full-time)

3.1 Eligibility requirement

S. No.	Department/ Cell	Programme	Qualifying Examination with "Specified minimum" marks/CPI (Cumulative Performance Index)
A.	Applied Mechanics	1. M.Tech. Applied Mechanics	B.Tech. or Equivalent degree in Mechanical, Civil, Aeronautical, Production Engineering
		2. M.Tech. Materials Science & Engineering	B.Tech. or equivalent degree in Aeronautical, Chemical, Mechanical, Marine Engineering, Metallurgical & Materials Engineering or Production Engineering
		3. M.Tech. Fluids Engineering	B.Tech. or equivalent degree in Civil, Mechanical, Aeronautical, Chemical Engineering, Naval Engineering, Marine Engineering and Production Engineering
		4. M.Tech. Biomedical Engineering	B.Tech/B.E. or equivalent degree in any branch of Engineering/M.Sc. (Biomedical Instrumentation), M.Sc.(Physics) or M.Sc.(Electronics) (Mathematics as a subject at 10+2 levels compulsory)
		5. M.Tech. Biotechnology	B.Tech. or equivalent degree in Biotechnology/M.Sc. in Biotechnology/ M.Sc. in Applied Biological Sciences such as Micro-Biology, Bio Chemistry, Genetics, Molecular Biology, Pharmacy and Bio-Physics having a valid GATE score. Preference will be given to candidates having degree in B.Tech. (Biotechnology).
B.	Civil Engineering	1. M.Tech. Civil Engineering (Environmental Engineering)	B.Tech. or equivalent degree in Agriculture, Architectural, Civil, Chemical Engineering and Mechanical Engineering M. Sc. In Chemistry, Bio-Chemistry, Biotechnology, Bio-Engineering, Environmental Sciences, Geology with 60% marks in Bachelor or M. Sc. Level with valid GATE scores in the appropriate discipline.
		2. M.Tech. Civil Engineering (Geo Technical Engineering)	B.Tech. or equivalent degree in Agriculture or Civil Engineering
		3. M.Tech. Civil Engineering (Structural Engineering)	B.Tech. or equivalent degree in Architectural, Civil Engineering or Mechanical Engineering

S. No.	Department/ Cell	Programme	Qualifying Examination with "Specified minimum" marks/CPI (Cumulative Performance Index)
C.	GIS Cell	1. M.Tech. (GIS & Remote Sensing)	B.E./B.Tech. or equivalent degree in Civil Engineering, Comp. Sc. & Engineering, I.T., Electronic Engineering, Agriculture, Architecture Engineering, Marine Engineering, Aeronautical Engineering, Mining, Military Engineering, Naval Science and Engineering or MCA or M.Sc. in GIS & Remote Sensing, Computer Sc., Geology, Geophysics, Geography, Archaeology, Environmental Sc., with valid GATE score in appropriate discipline
D.	Computer Science and Engineering	1. M.Tech. Computer Science & Engineering	GATE score in Computer Science.
		2. M.Tech. Software Engineering	GATE score in Computer Science.
		3. M.Tech. Information Security	GATE score in Computer Science and Engineering / Electronics & Communication Engineering The following will be common for all three M.Tech. programmes of the Department. B.Tech. or equivalent degree in Electrical Engineering, Electronics Engineering, Computer Science and Engineering and Information Technology Branch of Engineering /M.C.A. or M.Sc. (Computer Science) or equivalent with aggregate minimum marks of 60% or equivalent CPI (55% or equivalent for SC/ST candidates).
E.	Electrical Engineering	1. M.Tech. Electrical Engineering (Control & Instrumentation/Power Systems)	B.Tech. or equivalent degree in Electrical, Electronics, Electronics and Communication Engineering or Instrumentation Engineering
		2. M.Tech. Electrical Engineering (Power Electronics & ASIC Design)	B.Tech. or equivalent degree in Electrical, Electronics, Electronics and Communication Engineering or Instrumentation Engineering
F.	Electronics and Communication Engineering	1. M.Tech. Electronics Engineering (Digital System)	B.Tech. or equivalent degree in Electronics Engineering, Electronics and Communication Engineering, Electronics & Instrumentation Engineering, Electrical Engineering
		2. M.Tech. Electronics Engineering (Microelectronics & VLSI Design)	B.Tech. or equivalent degree in Electronics Engineering, Electronics & Communication Engineering, Electronics & Instrumentation Engineering, Electrical Engineering or Computer Sc. & Engineering
G.	Mechanical Engineering	1. M.Tech. Mechanical Engineering (Design)	B.Tech. or equivalent degree in Mechanical Engineering, Automobile Engineering, Production Engineering, Industrial Engineering, Aeronautical Engineering or Metallurgical Engineering
		2. M.Tech. Mechanical Engineering (Production Engineering)	B.Tech. or equivalent degree in Mechanical Engineering, Aeronautical Engineering, Production & Industrial Engineering, Automobile Engineering or Metallurgical Engineering
		3. M.Tech. Mechanical Engineering (Computer Aided Design & Manufacturing)	B.Tech. or equivalent degree in Mechanical Engineering, Aeronautical Engineering, Production & Industrial Engineering, Automobile Engineering, or Metallurgical Engineering.
		4. M.Tech. Mechanical Engineering (Product Design & Development)	B.Tech. or equivalent degree in Mechanical Engineering, Aeronautical Engineering, Production & Industrial Engineering, Automobile Engineering or Metallurgical Engineering
H.	Mathematics	M.Sc. Mathematics & Scientific Computing	Three years B.Sc.Degree with minimum 60% marks or equivalent grade (55% or equivalent for SC/ST candidates) with Mathematics as one of the main subject. Admission Procedure: On the basis of written test (objective/short answer type)
I.	Humanities and Social Sciences	Master of Social Work	Graduation in any stream with minimum 60% marks or equivalent grade (55% or equivalent for SC/ST candidates). Admission Procedure: On the basis of written test, Group Discussion and Personal Interview.

3.2 Seat Matrix for M.Tech. Programme for academic session 2011-12

Department	S.No.	Course (P.G.)	Stipendiary Seats									Sponsored	Total
			OP	OPPH	OBC	OBCPH	SC	SCPH	ST	STPH	Total		
Applied Mechanics	1.	Applied Mechanics	9	1	5		3		2		20	5	25
	2.	Bio Medical	10		5		3		2		20	5	25
	3.	Fluids Engineering	10		4	1	3		2		20	5	25
	4.	Material Science	10		5		3		2		20	5	25
	5.	Biotechnology	7	1	4		2		1		15	5	20
Civil Engineering	6.	Environmental Engg.	9	1	5		3		2		20	5	25
	(5 Sponsored by Ministry of Urban Development)												
	7.	Geo-technical Engg.	10		5		3		2		20	5	25
	8.	Structural Engg.	10		5		3	1	2		20	5	25
GIS Cell	9.	GIS & Remote Sensing	10		5		3		1	1	20	5	25
Computer Science and Engineering	10.	Computer Science & Engg.	9	1	5		3		2		20	5	25
	11.	Information Security	10		5		3		2		20	5	25
	12.	Software Engg.	10		5		2	1	2		20	5	25
Electrical Engineering	13.	Control & Instrumentation/Power System	10		4	1	3		2		20	5	25
	14.	Power Electronics & ASIC Design	15	1	8		5		2		31	5	25
Electronics and Communication Engineering	15.	Digital Systems	9	1	5		3		2		20	5	36
	16.	Microelectronics and VLSI Design	10		5		3		2		20	5	25
Mechanical Engineering	17.	Comp. Aided Design & Manufacturing	9	1	5		3		2		20	5	25
	18.	Design	10		5		3		2		20	5	25
	19.	Product Design & Development	10		4	1	3		2		20	5	25
	20.	Production Engineering	10		5		3		2		20	5	25
Total			197	7	99	3	59	2	38	1	406	100	506

3.3 Seat Matrix for M.Sc. and MSW Programme for academic session 2011-12 (Non-Stipendiary)

Department	S.No.	Course (P.G.)	OP	OPPH	OBC	OBCPH	SC	SCPH	ST	STPH	Total
Mathematics	1.	Master of Science	11	1	6		3		2		23
Humanities and Social Sciences	2.	Master of Social Work	11	1	6		3		2		23

3.4 Non-stipendiary seats in following M.Tech. programmes are available as per the details given below.

These non-stipendiary seats shall be filled through GATE scores only. Likely to be converted to Stipendiary on creation of vacancies

Department	S.No.	Course (P.G.)	Category								Total
			OP	OPPH	OBC	OBCPH	SC	SCPH	ST	STPH	
Applied Mechanics	1.	Applied Mechanics	2		1					1	4
	2.	Bio Medical	2		1		1				4
	3.	Fluids Engineering	2		1		1				4
	4.	Material Science	2		1		1				4
Civil Engineering	5.	Environmental Engg.	2		1				1		4
	6.	Geo-technical Engg.	2		1		1				4
	7.	Structural Engg.	2		1		1				4
GIS Cell	8.	GIS & Remote Sensing	1	1	1				1		4
Computer Science and Engineering	9.	Computer Science & Engg.	2		1		1				4
	10.	Information Security	2		1		1				4
	11.	Software Engg.	2		1				1		4
Electrical Engineering	12.	Control & Instrumentation/Power System	2		1				1		4
	13.	Power Electronics & ASIC Design	5		2	1	2				10
Electronics and Communication Engineering	14.	Digital Systems	2		1		1				4
	15.	Microelectronics and VLSI Design	2		1				1		4
Mechanical Engineering	16.	Comp. Aided Design & Manufacturing	2		1		1				4
	17.	Design	2		1						3
	18.	Product Design & Development	2		1		1		1		5
	19.	Production	2		2						4
Total			40	1	21	1	12	0	7	0	82

Code: SC – Scheduled Caste
SY– Stipendiary
PT-Part-Time

ST – Scheduled Tribe
NS – Non-Stipendiary

SP - Sponsored
OBC- Other backward class.

NOTE:

1. Distribution of PH Category seats may be changed depending upon the availability of candidate.

3.5 Sponsored Candidates

The institute may also admit sponsored candidates to full time M.Tech. Programmes. Following guidelines will be followed for admission to this category:

- (i) The candidates who possess Bachelor's degree in Engineering/Technology/Pharmacy/Architecture/Planning or equivalent from AICTE approved institutions with at least 60% Marks or equivalent CPI (55% or equivalent for SC/ST candidates) will be eligible for admission.
Preference will be given to those candidates who are GATE qualified. Sponsored candidates will not be eligible to receive scholarship, even if they are admitted based on GATE Score.
- (ii) The candidates must have a minimum of two Years of Full-Time work experience as on the date of registration in a registered firm/company/industry/educational and research institution/any government department or government autonomous organizations in the relevant field in which admission is being sought. A proof in this respect must be submitted along with the application form.
- (iii) The mode of selection shall be decided by individual departments.
- (iv) A letter from the employer must be furnished at the time of test / interview stating that the candidate is being sponsored to get admission. The employer should also indicate that the candidates will not be withdrawn midway till the completion of the course. In case a candidate fails to produce the sponsorship letter he/she shall not be interviewed.

4. Eligibility requirement and number of available seats in M.Tech. Part-Time (Evening Classes) programmes

Following departments offer Part-time M.Tech. programmes as per the details given below. These Part-time programmes are run under the School of Non-formal and Continuing Education (SNFCE). These programmes are of 03 years duration out of which 02 years are scheduled for completion of course work and one year for Thesis/Dissertation/Projects. These courses are offered to working professionals who are working in and around Allahabad City. Candidates with minimum 02 years of working experience at the time of registration are eligible for admission.

All academic requirement for admission and graduation will be same as that of regular full-time M.Tech. programme described in para 3 above.

S.No.	Department	Programmes Specialisation	Qualifying Examination	Seats Available
A.	Civil Engineering	1. Structural Engineering	B.Tech. or equivalent in Architectural, Civil Engineering or Mechanical Engineering	15 seats in each programmes / specialisation
		2. Geotechnical Engineering	B.Tech. or equivalent degree in Agriculture or Civil Engineering	
		3. Environmental Engineering	B.Tech. or equivalent degree in Agriculture, Architectural, Civil or Chemical Engineering and Mechanical Engineering, M. Sc. In Chemistry, Bio-Chemistry, Biotechnology, Bio-Engineering, Environmental Sciences, Geology with 60% marks in Bachelor or M. Sc. Level.	
B.	Electrical Engineering	1. Power Electronics and ASIC Design	B.Tech. or equivalent in Electrical, Electronics, Electronics and Communication Engineering or Instrumentation Engineering	15 seats in each programmes / specialisation
		2. Control & Instrumentation	B.Tech. or equivalent in Electrical, Electronics, Electronics and Communication Engineering or Instrumentation Engineering	

C.	Electronics & Communication Engineering	Digital Systems	B.Tech. or equivalent in Electronics Engineering, Electronics and Communication Engineering, Electronics & Instrumentation Engineering, Electrical Engineering	15 seats in each programmes / specialisation
D.	Mechanical Engineering	1.Production Engineering	B.Tech. or equivalent in Mechanical Engineering, Aeronautical Engineering, Production & Industrial Engineering, Automobile Engineering or Metallurgical Engineering	15 seats in each programmes / specialisation
		2.CAD/CAM	M.Tech. or equivalent in Mechanical Engineering, Aeronautical Engineering, Production & Industrial Engineering, Automobile Engineering or Metallurgical Engineering	

5. Eligibility requirement for admission to Ph.D. programmes

S. No.	Department/Cell/Centre	Eligibility qualification	Area of research
A.	Applied Mechanics	M.Tech. or Equivalent degree in Mechanical Engg., Civil Engg., Metallurgical Engg., Material Science, Aeronautical Engg., Chemical Engg., Marine Engg., Naval Engg., Production Engg., Biomedical Engg., Instrumentation & Control Engg., OR M.Sc. or equivalent degree in Physics/Chemistry/Mathematics (in the area relevant to the department as mentioned in last column-Areas of Research)	Solid Mechanics, Structural Analysis, Material Science, Robotics and Mechanisms, Kinematics and Dynamics of systems, Composite & smart structures, Fluid Mechanics, Fluid Machines, Multiphase Flow, Biomechanics and MEMS.
	Biotechnology (Under Applied Mechanics)	M.Tech. (Biotechnology)/M.Tech. (Biochemical Engg.) OR M.Sc. in any branch of Life Sciences	Molecular Biology, Microbiology, Environmental Biotechnology, Agricultural Biotechnology, Bioprocess development.
B.	Civil Engineering	M.Tech. or Equivalent degree in Aeronautical Engineering Architectural Engineering, Civil, Chemical Engineering, M.Sc. Environmental Science or Equivalent	Structural Engineering, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, GIS, Environmental Geo-technology, Remote Sensing, Water Resources Engineering
C.	Computer Science & Engineering	M.Tech. or equivalent degree in Computer Science & Engineering, Software Engineering, Information Technology, Electrical Engineering Electronics Engineering Electronics and Communication Engineering.	Data Base, Software Engineering, Mobile Computing, Parallel Computing, Computer Architecture, Computer Networking, Theoretical Computing, Computer Algorithm, Data mining, Knowledge Based System, Real Time System, Distributed Computing.
D	Electrical Engineering	M.Tech. or Equivalent degree in Electrical Engineering, Electronics and Communication Engineering, and Electronics Engineering	Control Systems and Mathematical Modeling, Nonlinear Systems, Model Reduction, Fuzzy Logic, Neural Networks, AI in Power System, Wireless Sensor Networks, Power Electronics, Transmission Systems & FACTs, Distribution System and Custom Power Devices, Distributed Generation & Control, Power Quality, Modern Electrical Drives, Instrumentation Systems, Biomedical Instrumentation, Virtual Instrumentation, Power System Protection.
E	Electronics & Communication Engineering	M.Tech. or Equivalent degree in Electrical Engineering, Electronics Engineering, Electronics and Communication Engineering	Data Communication and Networking, Optical Communication, Digital Signal Processing, Image Processing, Mobile and ATM Network, Analog and Digital Circuits.
F	Mechanical Engineering	M.Tech. or Equivalent degree in Mechanical, Aeronautical, Automobile, Chemical, Production, Metallurgical Engineering, Industrial Engineering.	Thermal Science (Heat Transfer, Energy Conversion, Refrigeration and Air Conditioning), Turbo Machines, CAD/CAM/FMS, Fatigue and Fracture Mechanics, Unconventional Manufacturing Processes, Metal Cutting, Metal Forming, Noise and Vibrations, Industrial Engineering, Rapid Prototyping and Reverse Engineering, Knowledge Management.
	Chemical Engineering (Under Mech. Deptt.)	M.Tech. or equivalent degree in Chemical Engineering, Petroleum Studies, Environment, Biotechnology	Separation Processes, Heat Transfer, Mass Transfer, Chemical Reaction Engineering, Modeling and Simulation, CFD, Energy Conversion.
	Centre of Energy Studies (under Mechanical Engineering Department)	M.Tech. or Equivalent degree in Mechanical, Aeronautical, Automobile, Chemical, Production, Metallurgical Engineering	Non-Conventional Energy Resources Management, Thermal System Design

S. No.	Department/Cell/Centre	Eligibility qualification	Area of research
G	Mathematics	M. Sc in Mathematics/Statistics or equivalent with 60% aggregate marks or equivalent grade (55% or equivalent for SC/ST candidates). NET compulsory for Institute fellowship	General Theory of Relativity, Differential Equation.
H	Chemistry	M.Sc. in Chemistry/ Applied Chemistry with 60% marks (55% or equivalent for SC/ST candidates). For interdisciplinary field of research Master degree in any discipline of Sc. with 60% marks, M.Tech., B.Tech. 75% marks (70% or equivalent for SC/ST candidates).	Organo-metallic material chemistry, Polymers, Environmental Chemistry, Nano-Technology, Nano-Chemistry, Bio-Inorganic, Photo-Chemistry, Drug delivery, Co-ordination chemistry
I	Humanities and Social Sciences	M.A. English or Psychology/ MBA/MSW with 60 % aggregate marks or equivalent CPI (55% or equivalent for SC/ST candidates).	Commonwealth Literature, Psychology : Organisational Behavior, Social Psychology, Industrial Psychology, Entrepreneurship, British Literature, American Literature, English Language Speaking and Human Resource Management, Rural Economics, Allied Social Sciences, Accounting and Financial Management.
J	Physics	M.Sc. in Physics / M.Tech. in appropriate branch of Engineering or equivalent with 60% aggregate marks or equivalent CPI (55% or equivalent for SC/ST candidates).	Condensed Matter Physics/ Solid State Physics, Solid State Gas Sensors, Carrier Transport in Thin Films, Interface States Studies in Semiconductor Devices, Characterization of Materials, Non-linear Dynamics, Spectroscopy of Nano-Materials and CNTs, Quantum Chemistry & Bio-Physics, Magnetic Materials, Solar Photovoltaics.
K	School of Management Studies	Master Degree in Management/ Technology/ Engineering/Economics / Commerce/ Science/ Computer Applications/Social Science with minimum of 60% marks or equivalent (55% or equivalent for SC/ST candidates) or Bachelors degree in Engineering with a minimum of 75% marks or equivalent CPI (70% or equivalent for SC/ST candidates). Note: Department would not be offering admissions under the Off-Campus Ph.D. programme.	Marketing Human Resource, Finance, Systems Management, Strategic Management, Operations Management, International Business.
L	GIS Cell	M. Tech. or equivalent in GIS & Remote Sensing/Civil Engineering/ Comp. Sc.& Engineering/ Information Technology/ Agricultural Engineering/ Mining Engineering or M.Sc. degree in GIS & Remote Sensing/ Applied Geology/ Geophysics/ Geography/ Environmental Science/ Computer Science or degree in Master of Computer Application.	Geoinformatics (Core and Applications)

Wherever the eligibility qualification is Master's degree in Science or Commerce or Economics or English or any subject of Humanities or Life Sciences or Management, NET qualification is must for getting Institute Fellowship as per letter F.No. 25-2/2010-TS.II, dated 30.09.2010 and subsequent modifications which may be issued by MHRD from time to time.

Important Note:

- Only deserving candidates with B.Tech./MCA or equivalent degree with 75% aggregate marks or equivalent (70% or equivalent for SC/ST candidates), may be considered for admission to Ph.D. programmes as mentioned above.
- Number of seats in each department will depend upon the availability of Supervisor in that department.
- Preference will be given to SC/ST candidates otherwise found eligible.

Part-time Programmes for Ph.D.

Candidates working in the R & D institutions or in other recognized institution/organization, who wish to apply under part-time category, are required to route their applications through their organization clearly stating that: -

- Their organization/institute is equipped with the necessary research and library facilities.
- The candidate is in employment with the sponsoring organization for the last 2 years (counted upto time of admission / registration).

The employer must undertake to relieve the candidate, to stay on the campus to enable the candidate to complete the "course work", "Comprehensive" and "State of Art" seminar.

Self Financed

Self financed Candidates do not get any stipend, however all other conditions related with admission & academic performance requirements will remain same as that for a stipendiary candidate. Such candidates are not eligible for hostel accommodation in the campus.

6. How to apply

- (i) All the candidates are required to submit their application form through our on-line application system using our portal www.academics.mnnit.ac.in/admission only.

“No other means of application form shall be accepted”

Before you start for registration make sure that you have soft copy of passport size photograph in **JPEG (256 kb)** format and your scanned signature in **JPEG** format.

Applicants may register on to the portal www.academics.mnnit.ac.in/admission using **new user** Select the programme to which you want to apply and complete the followings:

- a) Personal details
- b) Academic details

After completing above mentioned two steps, system will provide you your **username** and **password**. Please keep this information confidential and note this information as this will be required for subsequent steps.

After using **proceed further** button you will be reaching on main page again. Use the **username** and **password** to login in the system.

- (ii) **Challan** printing and payment,

Print the copy of **Challan**, there will be three counterfoils. The foils are:

- **Collection Branch Copy** (to be retained by the Collecting Branch after depositing the amount)
- **Institute copy** (to be duly signed and stamped by the Collecting Branch and to be sent alongwith application form to the respective department (s) / Cell / Center / School of the Institute.)
- **Student Copy** (to be duly signed and stamped by the Collecting Branch and kept by the student for any future reference).

On paying the requisite amount at the branch, the cashier will return two counterfoils with the journal no. written on them. Make sure that they are written clearly and legibly. The **Journal No.** is to be filled in the on-line application, which will permit you after verification by the software to fill your options.

Mode of payment

A candidate applying for more than one programme in different departments is required to pay ₹ 500/- for each programme. Application fee must be paid by electronic transfer for the requisite amount to the **MNNIT Fee Account (Current A/c No: 30981350206)** operating at **State Bank of India, Allahabad**. This payment can be made through:

- **Cash:** The amount may be deposited in cash at any SBI Branch all over India through their **Power Jyoti Scheme**. Subsidiary Banks of State Bank like (State Bank of Hyderabad, State Bank of Patiala etc) will not be able to provide this facility.

- (iii) Entry of **Journal Number**.

Correctly enter the **Journal number, date of transaction & branch code** and submit the details. After 12 hours your payment will be received and confirmation mail will be sent on your email.

- (iv) Choice filling for M.Tech. (Full-time) programme:

After receiving your payment status **“fill choices”** button will be activated and you can arrange the available branches in order of your choices. Drag choices to the preferred position and arrange them according to your choice.

Once the choices are locked you will not be able to change them, so be careful in your choice selection.

- (v) Upload Photograph and Signature:

Upload your recent photograph in **JPEG (256 kb)** format and your scanned signature in **JPEG** format also.

- (vi) Print the completed form.

Duly completed and signed forms alongwith copy of GATE score card (if applicable) and proof of qualifying examination must be send by post so as to reach the respective department (s) / Cell / Center / School of the Institute on or before **27.05.2011**.

7. Admission Criteria

(i) **M.Tech. Full-time (Stipendiary and Non-Stipendiary Category)**

For all the candidates under this category, admission allotment shall be made strictly through GATE Score, the choices opted and the category of the candidates.

(ii) **M.Tech. Sponsored and Part-time Category / M.Sc. / MSW**

Selection under these categories will be done on the basis of test / interview or any other screening criteria as decided by the respective departments, which will be notified alongwith the list of shortlisted candidates on the specified date in the schedule.

(iii) **Ph.D. (All Categories)**

Selection will be based on test / interview to be conducted by respective departments and would be notified alongwith the list of shortlisted candidates.

8. Allotment / Counseling Procedure

8.1 For M.Tech. Full-time (Stipendiary and Non-Stipendiary)

The allotment will be done in two phases. In the first phase there will be three rounds of allotment. These allotments will be done on the basis of GATE score, choices filled by the candidates and their respective category.

Phase I: First round of allotment will be displayed on 10th June, 2011.

- Candidates will have to give their acceptance using their username and password between 11th to 15th June, 2011.
- Candidates who fail to give their acceptance within the schedule dates shall not be considered for subsequent rounds of allotments.
- Vacancies created due to non-acceptance of allotment would be filled through a sliding process amongst the allotted and accepted candidates based on their merit and choices.
- Results of second round of allotment (after sliding) shall be displayed on 17th June, 2011.
- Newly allotted candidates shall be required to give their acceptance using their respective username and password between 18th to 21st June, 2011.
- Third round of allotment (if necessary) will be done after sliding on 24th June, 2011.

8.2 For M.Tech. (Sponsored / Part-time) / M.Sc./ MSW and Ph.D. all categories

Names of shortlisted candidates shall be displayed on the website on 7th June with details of test / interview to be conducted by the respective departments. Tentative schedule of the test / interview for different departments are given below:

Date of Written Examination for M.Sc. and MSW programme	- 23 rd June, 2011
Written test / Counseling for M.Tech. (Sponsored/ Part-time categories) for all departments	- 24 th June, 2011
Written test / Interviews for Ph.D. for all categories, all departments	- 28 th to 1 st July, 2011

Important Notes:

- (i) **Separate application forms** should be filled for courses offered by different departments along with the prescribed fee. However, separate fee is not to be paid for separate courses offered by the same department.
- (ii) The admission to M.Tech. programme will be based on the Score / Percentile secured by the candidate at the Graduate Aptitude Test in Engineering (GATE).
- (iii) No separate letter will be sent by the institute for attending the test/interview/Counseling.
- (iv) Candidates are advised to visit Institute website www.mnnit.ac.in for regular update.
- (v) The names of the short listed candidates shall also be displayed on the Notice Board of the Departments. The test and/or counseling will commence from 10.00 A.M.
- (vi) No candidate shall be considered for counseling without the result of the qualifying examination. However as a special case, if the results are not available, they should produce proof that they have completed all the requirement of qualifying examination from the Director / Principal of the Institute. In such cases Final mark sheet should be submitted on the day of counseling/registration, otherwise admission will be automatically cancelled.

8.3 Documents required

The candidates are required to bring the following documents with them at the time of physical reporting/interview/ registration:

- High School Certificate in original.
- Mark sheets of qualifying examination.
- Character Certificate issued by the Head of the institution last attended.
- GATE Score Card (for M.Tech. programme)
- OBC/SC/ST/PH certificate, if applicable.
- Passport size Photographs (6 Nos.) at the time of Registration.
- Migration Certificate (at the time of Registration)
- Category certificate, where ever applicable.
- One set of attested copies of all the above documents are required to be deposited at the time of admission.
- Copy of Application form (only for those candidates who are admitted through GATE Score).

- Note:**
- The institute reserves the right to refuse admission to any candidate without assigning any reason.
 - All legal disputes are subject to Allahabad High Court at Allahabad only.
 - The number of seats may vary without prior notice.
 - Due to shortage, hostel accommodation may not be available in the first year.

9. Eligibility requirements for scholarship

All GATE qualified candidates admitted to a full-time programme in M.Tech. (except under non-stipendiary category) are eligible for scholarship subject to the laid down norms of the MHRD, Govt. of India.

In case a candidate leaves the programme in-between, he/she will have to refund the entire money drawn by him/her as scholarship. Beside this he/she will have to clear all the dues pending against him/her.

10. Fee structure

Fee structure for M.Tech programme:

Fees	For Hostellers	For Non Hostellers
First Semester	₹ 25,613/-	₹ 24,238/-
Second Semester	₹ 23,225/-	₹ 21,650/-
Third Semester	₹ 23,888/-	₹ 22,513/-
Fourth Semester	₹ 23,225/-	₹ 21,650/-

Note: Students admitted to M.Tech. Computer Aided Design and Manufacturing under sponsored category will pay ₹ 31,613/- for 1st Semester (with hostel) and ₹ 30,238/- for Non hostellers).

Fee structure for M.Tech (Part-time) programme:

Fees	1 st Semester	Fee for 2 nd , 3 rd and 4 th Semester	Fee for Thesis Semesters
Total fee (₹)	₹ 20,000.00	₹ 16,000.00	₹ 12,000.00

Fee structure for M.Sc. (Mathematics and Scientific Computing) programme:

Fees	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester
Total fee (₹)	₹ 8,750.00	₹ 6,575.00	₹ 6,675.00	₹ 6,775.00

Fee structure for MSW (Master of Social Work) programme:

Fees	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester
Total fee (₹)	₹ 8,750.00	₹ 6,575.00	₹ 6,675.00	₹ 6,775.00

Fee structure for Ph.D. programme:

Particula rs	1 st Semester	All Intermediate Semester		Last Semester
		Even	Odd	
Ph.D. Regular	₹ 8,600/-	₹ 4,725/-	₹ 4,825/-	₹ 6,925/-
Ph.D. Self Finance	₹ 6,625/-	₹ 2,750/-	₹ 2,850/-	₹ 4,750/-

Mess charges

Hostel Mess charges for the M.Tech. first semester will be ₹ 10,000.00 and for Ph.D. first semester will be ₹ 10,000.00 and will be deposited on the day of registration. However the mess charges may change and the same will be informed to the students.

- Note:**
- Hostel Accommodation may not be available for the first year PG & Ph.D. Students.
 - M.Sc., MSW, Sponsored and Self-financed PG & Ph.D. students are not entitled for hostel accommodation.

11. Important dates

M.Tech. : Stipendiary and Non-Stipendiary(GATE)	
Date of opening of portal and start of application process	25 th April, 2011
Last date of online submission	27 th May, 2011
First allotment display on www.academics.mnnit.ac.in/admission	10 th June, 2011
First allotment online acceptance by applicant on www.academics.mnnit.ac.in/admission	11 th to 15 th June, 2011
Second allotment (if required) display on www.academics.mnnit.ac.in/admission	17 th June, 2011
Second allotment online acceptance by applicant on www.academics.mnnit.ac.in/admission	18 th to 21 st June, 2011
Third allotment (if required) display on www.academics.mnnit.ac.in/admission	24 th June, 2011
Third allotment online acceptance by applicant on www.academics.mnnit.ac.in/admission	25 th to 27 th June, 2011
Physical reporting and document verification	4 th to 6 th July, 2011
Second Phase of allotment (against vacant seats) (if required)	18 th July, 2011
M.Tech. (Sponsored/Part-time), M.Sc., MSW and Ph.D. all categories	
Display of names of shortlisted candidates to be called for test / interview for	
- M.Tech. : Full-time (Sponsored)	7 th June, 2011
- M.Tech. : Part-time	7 th June, 2011
- Ph.D. all candidates	7 th June, 2011
- M.Sc. (Mathematics and Scientific Computing) and MSW	7 th June, 2011
Date of Written Examination for M.Sc. and MSW programmes	23 rd June, 2011
Declaration of results for M.Sc. and MSW	23 rd June, 2011
Written Test/Counseling for M.Tech. (Sponsored/Part-time) for all departments	24 th June, 2011
Written Test/Counseling for Ph.D. all categories and departments	28 th to 1 st July, 2011
Registration of M. Tech., M.Sc., MSW and Ph.D. admitted candidates all categories (Tentative)	13.07.2011 and 19.07.2011
Start of classes	21.07.2010

- The candidates should **report to the concerned Head of the Department/Cell/Centre/School at 10.00 A.M.** for the written examination on the date mentioned above.
- Candidates sponsored by Ministry of Urban Development for admission to M.Tech. (Environmental Engineering) Course is required to report on 17.07.2011 for registration.

The filled up application form alongwith Institute copy of challan should be submitted by post / hand at the following address within the schedule date mentioned above:

Head of the <Name of the Department/Cell/Centre/School>Department.
Motilal Nehru National Institute of Technology
Allahabad – 211004, INDIA.

For any clarification regarding admission, contact:

Dean (Academic)
Motilal Nehru National Institute of Technology
Allahabad-211004
Phone: Office: (0532) 227-1109, 227-1110, 227-1111; Fax: (0532) 2445101
Email ID: admissions@mnnit.ac.in