

PROSPECTUS

FOR

ADMISSION

TO

4-SEMESTER M.TECH.

DEGREE COURSES

2009-2010



**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136 119**

GENERAL INFORMATION

Rules, Procedure and other details for admission to 4-Semester M.Tech. Degree courses are given in this prospectus as under:

1. The Application Form format for admission to a particular course comprises the **ABSTRACT FORM** and the relevant **APPLICATION FORM** for Admission as given at the end of the Prospectus.
2. The last date for receipt of duly filled in, application is **12.06.2009** by **5.00 PM**. It must be addressed to the **DEAN (ACADEMIC), NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA-136119**, as mentioned in the Application Form.
3. **Merit list will be displayed on the Institute website by concerned deptt. on 19.06.2009.**
4. The date of interview is **29.06.2009 (Monday)**. No separate interview letters will be issued.
5. A candidate who furnishes particulars which are found to be false or suppresses material information, will not be considered for admission and if he/she is admitted on such information, notwithstanding legal action under the law of the land, his/her admission shall be cancelled and all fees deposited by him/her forfeited.
6. Before accepting the admission, the candidate must also ensure that he/she fulfills the minimum eligibility conditions.

The Application Form may be downloaded from the Institute website (www.nitkkr.ac.in). Application Form must accompany a Bank Draft of Rs.1,000/- in favour of Director, National Institute of Technology, Kurukshetra payable at Kurukshetra.

For Further Enquiry: *01744-238519, 233223, 233224, 233352, 233227 & 233228.*

Note: As per orders of the Hon'ble Supreme Court of India, the Ragging is strictly prohibited in the Institute/Hostels.

THE INSTITUTE

National Institute of Technology (Institution of National Importance), Kurukshetra (erstwhile Regional Engineering College, Kurukshetra established in 1963 a joint and cooperative enterprise of the Government of India and the State of Haryana) earned its current status on **June 26, 2002**. The Institute has the objective of imparting instructions and research facilities in different disciplines of Engineering and Technology for the advancement of learning and dissemination of technical knowledge and to provide continuous industrial interaction. *The Institute is financially and administratively controlled by the Govt. of India, MHRD, New Delhi.* It is registered under the Societies Act managed and governed by an autonomous Board of Governors vested with full powers for administration and management of affairs of the Institute. At present, it offers courses of study leading to the 4-year B.Tech. Degree in Civil, Computer, Electrical, Electronics & Comm., Mechanical Engineering, Industrial Engineering & Management and Information Technology, 2-year M.Tech. Degree in Civil, Electrical, Mechanical, Electronics & Comm., Instrumentation and Nano-Technology and Ph.D. Degree in all above disciplines and in the various fields of Applied Sciences and Humanities.

Kurukshetra, steeped in history and mythology, is a place of great spiritual significance where Lord Krishna delivered the divine message of *Shrimad Bhagwad Gita*, and from where knowledge spread far and wide. The place was aptly chosen as his capital by King Harshawardhana.

Kurukshetra is located on the Delhi-Ambala section of Northern Railway, at about 160 km from Delhi. The Institute campus is 5 km from Kurukshetra Rail Junction and about 10 km from Pipli, a well known road junction on National Highway No.1 (Sher Shah Suri Marg).

COURSES OF STUDY

M.Tech Degree Courses:

Courses of study are offered in the following disciplines and specializations:

Department	Specialization
(a) Civil Engineering	: (i) Soil Mechanics and Foundation Engg. (ii) Structural Engg. (iii) Water Resources Engg. (iv) Transportation Engg. (v) Environmental Engg.
(b) Electrical Engineering	: (i) Control System (ii) Power System (iii) Power Electronics & Drives
(c) Electronics & Comm. Engineering	: (i) Electronics & Comm. Engg. (ii) VLSI Design*
(d) Mechanical Engineering	: (i) Industrial and Production Engineering (ii) Thermal Engineering (iii) Machine Design
(e) Physics	: (i) Instrumentation (ii) Nano-Technology
(f) Computer Engineering	Computer Engineering

*** Gate Scholarship would be awarded subject to approval for the same from MHRD, Govt. of India, New Delhi.**

Teaching in each academic year is divided into two semesters. The duration of the course is four semesters for regular students and six semesters for part-time students.

All the admitted candidates would be governed by the Academic Regulations for Post-Graduate Programmes, as laid down by the National Institute of Technology (Institution of National Importance), Kurukshetra.

PROCEDURE AND ADMISSION RULES FOR M.TECH. DEGREE COURSES

1. *Number of Seats:*

Department	Specialization	No. of Seats				Remarks
		Open	SC	ST	OBC	
(a) Civil Engg.	(i) Soil Mechanics & Foundation Engineering	08	2	1	2	13
	(ii) Structural Engineering	08	2	1	2	13
	(iii) Water Resources Engineering	08	2	1	2	13
	(iv) Transportation Engineering	10	3	1	3	17
	(v) Environmental Engineering	10	3	1	3	17
(b) Electrical Engg.	(i) Control System	08	2	1	2	13
	(ii) Power System	08	2	1	2	13
	(iii) Power Electronics & Drives	10	3	1	3	17
(c) Electronics & Comm. Engg	(i) Electronics & Comm. Engineering	10	3	1	3	17
	(ii) VLSI Design	10	3	1	3	17
(d) Mechanical Engg.	(i) Industrial and Production Engg.	08	2	1	2	13
	(ii) Machine Design	10	3	1	3	17
	(iii) Thermal Engineering	10	3	1	3	17
(e) Physics	(i) Instrumentation	10	3	1	3	17
	(ii) Nano-Technology	10	3	1	3	17
(f) Computer Engg.	Computer Engg.	10	3	2	5	20

In addition to the above seats, a maximum of 5 sponsored (full-time/ part-time candidates) may be admitted to each course (Specialisation). Such candidates should be sponsored by Govt. Organisation, Public Sector Undertaking, (Regd. Under Indian Companies Act 1956), Govt./Govt. aided/Private Engineering Colleges/ Polytechnics. They should have been in regular employment with Sponsoring Organisation for a period of at least two years. However, such candidates will not be eligible for award of Institute scholarship.

2. *Eligibility for Admission*

A candidate for being eligible for admission to the Master of Technology courses in National Institute of Technology, Kurukshetra should have passed B.Sc. (Engg.)/ B.Tech./B.E. Degree or equivalent examination in the relevant discipline as mentioned below:

Department	Specialisation	Relevant Discipline/Qualifying Degree
(a) Civil Engg.	(i) Structural Engg.	Civil Engg.
	(ii) Soil Mechanics and Foundation Engg.	Civil Engg.
	(iii) Water Resources Engg.	Civil Engg./Agricultural Engg.
	(iv) Transportation Engg.	Civil/Structures/ Building Construction or B.Arch./ Town Planning
	(v) Environmental Engg.	Civil /Chemical/Mining Environmental Engg.
(b) Electrical Engg.	(i) Power System	Electrical Engg./ Electrical and Electronics Engg.
	(ii) Control System	Electrical Engg./ Electronics & Comm. Engg./ Electrical & Electronics Engg./ Electronics Engg./ Instrumentation & Control/ Instrumentation Engg./ Electronics & Instrumentation/ Computer Engg./Information Technology
	(iii) Power Electronics & Drives	Electrical Engg./Electrical and Electronics Engg./ Instrumentation and Control Engg.
(c) Mechanical Engg.	(i) Industrial and Production Engg.	Mechanical Engg./ Production Engg./ Industrial Engg.
	(ii) Machine Design	Mechanical Engg./ Production/Industrial Engg./ Computer Science and Engg.
	(iii) Thermal Engg.	Mechanical Engg./Electrical Engg.
(d) Electronics & Comm. Engg.	(i) Electronics & Comm. Engg.	Electronics & Comm. Engg. Electrical Engg. (Electronics Specialisation)/ Computer Engg.
	(ii) VLSI Design	Electronics & Communication Engg. or equivalent
(e) Physics	(i) Instrumentation	Electrical Engg. / Electronics & Comm. Engg./Instrumentation Engg./ M.Sc.(Physics) with minimum of two courses in Electronics / M.Sc. Electronics.
	(ii) Nano-Technology	B.Tech.- Nano-Technology, Electronics & Comm. Engg./ Electrical Engg./ Computer Engg./ Instrumentation Engg./ Chemical Engg./ Biotechnology/ M.Sc. (Physics/Chemistry/ Bio-Tech/Electronics)
(f) Computer Engg.	Computer Engg.	Computer Science & Engg., Computer Engg., Information Technology, Electronics Engg., Electronics & Comm. Engg., Electrical Engg.

B.E./B.Tech./B.Sc.(Engg.)/B.Arch. Degrees of Indian Universities which in terms of University Grants Commission Act defined as Universities/ Institutions, Deemed to be University are recognized as equivalent to the corresponding examination of the Affiliating University provided the candidates concerned have passed these examination by pursuing regular courses of studies.

A candidate should have at least 60% marks (or 6.67 CGPA on 10 point scale) in qualifying examination such as B.Sc.(Engg.)/B.E./B.Tech./M.Sc.Degree Examination 50% marks or 5.56 CGPA for Scheduled Caste/Scheduled Tribes Candidates) on the basis of which the admission is being sought. For AMIE, the minimum requirement shall be 55% marks in degree.

The sponsored candidates also shall have minimum 60% marks (or 6.67 CGPA) in the qualifying degree examination (50% marks or 5.56 CGPA eligibility for SC/ST candidates). In addition, the sponsored candidates should have on the last date of applying, an experience of at least two years in the organization(s) of the types specified, out of which at least one year continuous experience should be as regular employee in the sponsoring organization.

The eligibility criteria is also given below in tabular form: -

Category of Candidates	Eligibility Criteria
General	60% marks in qualifying degree examination or CGPA 6.67 on 10 point scale
SC/ST	50% marks in qualifying examination or CGPA 5.56 on 10 point scale
AMIE	55% marks in degree
Sponsored Candidates	60% marks in qualifying degree examination or CGPA 6.67 on 10 point scale. (50% marks or CGPA 5.56 on 10 point scale, if belonging to SC/ST). On last date of applying, two years experience in the organization(s) of the types specified, out of which at least one year continuous experience should be as regular employee in the sponsoring organization

3. *Basis for Selection:*

A merit list of the eligible candidates will be drawn on the basis of their valid GATE score only (i.e. **100% weightage to GATE score and no weightage to qualifying degree marks**).

Note: Provisional admission in M.Tech. is allowed for those students having **valid Gate Score** and B.Tech./BE 7th Semester result. For those coming from Science stream and annual examination system, the results of the previous year be considered. However, these students will furnish an undertaking to the effect that their admissions will be regularized only after clearance of the final examination and compliance to the academic qualifying requirements by the **15th September, 2009**.

Seats will first be filled by GATE qualified candidates and the remaining vacant seats, if any, shall be offered to other candidates on the basis of their marks or CGPA in the qualifying examination. **Non-GATE candidates, however, shall not be considered for any scholarship as per latest MHRD guidelines.**

For candidates who have passed their qualifying examination from a University other than this Institute i.e. N.I.T. Kurukshetra, a Migration Certificate will have to be submitted ordinarily within one month of admission. In case the Migration Certificate is not submitted by the date specified the provisional admission of the student is likely to be cancelled as per Institute rules.

4. *Duration of Course*

- (i) The normal duration of course shall be Four Semesters for regular students and Six Semesters for part-time students with the last semester extending to the last working day in September or March, as the case may be.
- (ii) The courses are open to part-time candidates also if they are otherwise eligible under Institute's rules and the duration of studies for them will be of 6 semesters. A part time candidate shall mean a person engaged in (a) teaching/research/engineering profession. Sponsored candidates of the National Institute of Technology, Kurukshetra holding regular posts and served at least for two year in the Institute seeking admission to M. Tech. Degree Course, as a part time candidate will pay only registration fee and continuation fee.

5. *Submission of Application:*

Candidates seeking admission in more than one discipline/ Deptt., should submit separate application complete in all respects, for each discipline /Deptt.

Every Application in the prescribed Form attached at the end of this Prospectus comprising Abstract Form A & Form B, must be complete in all respects, in the candidate's own handwriting and must also be accompanied with attested copies of the following:

- (i) University Certificate showing the detailed marks in all the subjects in the qualifying examination on the basis of which admission is being sought.
- (ii) Certificate of having qualified GATE indicating the score obtained therein.
- (iii) Character Certificate from the Head of institution last attended.
- (iv) Matriculation/ Higher Secondary Part –I Examination Certificate as a proof of age.
- (v) **Scheduled Caste /Scheduled Tribe Certificate (SC/ST)**

This is to certify that Mr./Ms.
Son/ Daughter ofbelongs to
Scheduled caste/tribe of village/city,.....
District.....State.....his/her caste is notified
as Scheduled caste/ tribe by Government of India Act. 1956 (Amended).

Date:
Place:

Signature:

Name:

Candidate's Signature

Seal

Tehsildar/ ADM*

* or Competent/ Designated Authority

(vi) OBC Certificate and declaration/undertaking

Proforma for Other Backward Class (OBC) Certificate
[Certificates issued from Maharashtra State must be validated by the Social Welfare Department of the
Maharashtra Government]

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

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

Community which is recognized as a backward class under:

- (i) Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186 dated 13/09/93.
- (ii) Resolution No. 12011/99/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.
- (iii) Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated 25/05/95.
- (iv) Resolution No. 12011/96/94-BCC dated 9/03/96.
- (v) Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.
- (vi) Resolution No. 12011/13/97-BCC dated 03/12/97.
- (vii) Resolution No. 12011/99/94-BCC dated 11/12/97.
- (viii) Resolution No. 12011/68/98-BCC dated 27/10/99.
- (ix) Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.
- (x) Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated 04/04/2000.
- (xi) Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 21/09/2000.
- (xii) Resolution No. 12015/9/2000-BCC dated 06/09/2001.
- (xiii) Resolution No. 12011/1/2001-BCC dated 19/06/2003.
- (xiv) Resolution No. 12011/4/2002-BCC dated 13/01/2004.
- (xv) Resolution No. 12011/9/2004-BCC dated 16/01/2006 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 16/01/2006.

Shri / Smt. / Kum. _____ and / or his family ordinarily reside(s) in the
_____ District / Division of _____ State.

This is also to certify that he / she does not belong to the persons / sections (Creamy Layer) mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt. (SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004 or the latest notification of the Government of India.

Dated:

District Magistrate/ Competent Authority

Seal

NOTE:

- (a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
- (b) The authorities competent to issue Caste Certificates are indicated below:
 - (i) District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / 1st Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka 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 Tehsildar.
 - (iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.
- (c) The annual income / status of the parents of the applicant should be based on financial year ending March 31, 2008.

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 for 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.

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, 2008.

Place:

Signature of the Candidate

Date:

Declaration / undertaking not signed by Candidate will be rejected

- (vii) Photocopies of the following (If applicable)
- a) PF Account No.
 - b) E.S.I. from the sponsoring firm.
 - c) Latest Pay Certificate
 - d) 1956 Act (Indian Companies Act)
- (viii) Candidates, who are finally selected for admission, will be required to deposit the originals of all their certificates. They are, therefore, advised to keep the photostat or attested copies of all certificates with them for their record and use. The selected candidates will be issued an Admission Letter and will be required to attend the classes when the semester studies for two year M.Tech. Ist semester commences or when specified by the Dean (Academic), National Institute of Technology, Kurukshetra-136119. The sponsored selected candidates will be allowed to join only on the production of Relieving Certificate from the concerned authority of the Organisation/ Department where he is employed, in the Performa given below and on the proper letter head of the organisation, bearing reference no. and date of issue:

Certified that Mr. /Ms. _____ S/o/D/o Sh. _____, currently working on permanent post in _____ department of this organization _____, has been relieved to join the **two year M.Tech. Degree Course at National Institute of Technology, Kurukshetra** and that no departmental or other enquiry is pending against him/her. **He/she will be absorbed into this department/organization after the completion of his course. He/she has furnished the Agreement bond etc. as required.**

No. _____

Signature of the sponsoring
authority with stamp

Date _____

The application complete in all respects should reach the Dean (Academic), National Institute of Technology, Kurukshetra-136119, on or before 12th June, 2009 (Friday) upto 5.00 PM.

6. A CANDIDATE WHO FURNISHES PARTICULARS WHICH ARE FOUND TO BE FALSE OR SUPPRESSES MATERIAL INFORMATION WILL NOT BE CONSIDERED FOR ADMISSION. IN CASE HE HAS BEEN ADMITTED ON SUCH INFORMATION, NOT WITHSTANDING LEGAL ACTION UNDER THE LAW OF LAND, HIS ADMISSION SHALL BE CANCELLED AND ALL FEES DEPOSITED BY HIM, FORFEITED.

APPLICATIONS RECEIVED LATE DUE TO POSTAL/ COURIER DELAY OR OTHERWISE OR THOSE DO NOT FURNISH COMPLETE PARTICULARS OR, DO NOT ENCLOSE ALL THE DOCUMENTS INDICATED IN THE APPLICATION FORM, WILL NOT BE CONSIDERED.

7. Admission:

Only those candidates who present themselves personally on **29th June, 2009 (Monday) at 9.00 AM** along with the originals of all the documents will be considered for admission. Four Passport size photographs of 5 cm x 7cm will also be required at the time of admission.

The admitted candidates will be required to deposit fees, securities etc in cash on the spot at the time of admission.

Year	Tuition Fees (a) All students (b) Sponsored Students	Student Related Activity Fee	Seat Rent			Contribution towards Corpus fund (CDF)	Institute Security (refundable)
			Single seater	Double Seater	Triple Seater		
Ist year	15,000/- p.a.	6, 000/- p.a.	6000/ p.a.	4000/- p.a.	2000/-p.a.	8,000/-	5,000/-

However, candidates sponsored by Private Industries/ Private Colleges and Organisations shall have to pay tuition fee at the rate of Rs. 10,000/ per semester.

The list of candidates to appear in the interview will be available on Institute website www.nitkkr.ac.in. No separate letter will be issued for attending the interview. The candidate should report to the Institute reception at 9.00 AM on 29th June, 2009 (Monday).

Candidates who are absent on the date and time specified for interview (i.e. 29th June, 2009 (Monday)) shall not be considered for admission.

Before accepting the admission, the candidate must also ensure that he/she fulfills the minimum eligibility conditions as laid down by the affiliating university for admission to respective course.

8. *Scholarships*

A scholarship of the value of the Rs. 8000/- P.M. will be awarded to the students who have qualified the GATE (**GATE Scholarship would be awarded for VLSI Design Specialization of M.Tech. in Electronics & Comm. Engg., subject to approval for the same from MHRD, Govt. of India**) and are pursuing a regular course of study of M.Tech. as per seats sanctioned by the Govt. of India from time to time on the following terms and conditions:

- (i) It may be obligatory for every postgraduate student to undertake 8 to 10 hours (per week) of work related to teaching and research activities as may be assigned to him/ her by the Institute. This could include tutorials, laboratory classes, development and maintenance of laboratories assistance in research and development activities undertaken by faculty members, maintenance and operation of computers and other central facilities assistance in library etc.
- (ii) As per existing rules, the students must secure a first class (60%) equivalent grade points during the first, second and third semester examination to become eligible for continuance of scholarship during the second, third and fourth semester, respectively.
- (iii) A student shall be required to give an undertaking to the effect that he/she would not leave the course midway to appear in any competitive examination etc., not related to engineering and technology in order to be eligible to receive this scholarship.
- (iv) During the course of studies, the student shall not receive any emoluments, salary, stipend, etc., from any other source.
- (v) The student shall be entitled for leave for a maximum period of 30 days per year in addition to general holidays but is not entitled to vacations, e.g., summer, winter, pooja etc.
- (vi) The Government of India/Senate/BOS of the Institute may impose any other condition as deemed necessary from time to time.

If the conditions mentioned above are not acceptable to a student, he/she will not be entitled to scholarship.

9. The selected candidates will have to submit a “**No Objection / Migration Certificate**” within one month of the admission from University last attended failing which the admission is liable to automatic cancellation.
10. Except for the issue of letters of call, the Institute will not enter into any correspondence in regard to selection of candidates for admission. Interim enquiries will not be attended to.

THE ADMISSION TO NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA IS SUBJECT TO THE ACADEMIC REGULATIONS FOR POST GRADUATE PROGRAMMES AS LAID DOWN BY THE INSTITUTE.

11. THE DECISION OF THE DIRECTOR IN ALL MATTERS RELATED TO ADMISSION SHALL BE FINAL.

12. General

- (i) The admission rules and procedure are subject to alteration at any time without notice.
- (ii) The decision of the Director in all matters relating to admission shall be final.
- (iii) Hostel accommodation will be provided subject to availability of the same.
- (iv) Any self addressed envelopes or postage stamps sent to the Institute will not be returned.
- (v) Dispute, if any, will be subject to Kurukshetra Jurisdiction.