



# INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

VGEC Campus, Chandkheda Visat-Gandhinagar Highway,  
Ahmedabad, Gujarat, India – 382424  
www.iitgn.ac.in/mtech.htm; Email: academics@iitgn.ac.in  
Phone: +91 - 79 - 2397 2583; Fax: +91 - 79 - 2397 2586

## MTECH AND DIIT PROGRAMMES AT IIT GANDHINAGAR

The academic programme leading to the M.Tech degree is broad-based and will consist of coursework as well as a thesis leading to a dissertation, with equal emphasis on both these aspects. The coursework would be broad-based to provide knowledge in the field chosen by a student. The thesis would serve to engage and train students to inculcate in them the abilities for independent thinking, and to integrate knowledge towards the solution of R&D problems. The D.IIT programme will only consist of course work with no thesis requirement. The coursework requirements for the D.IIT programme will be the same as the coursework requirements for the M.Tech programme.

The presence of a strong research oriented faculty provides an opportunity for excellent research training. The Institute already has several sponsored research and development projects from industrial and government organizations. World-class research laboratories are in the process of being set up. IIT GN also has a good library in terms of books and access to several ejournals (through Science Direct, ACS, APS, AMS, Springer Link, JSTOR, IEEE, Annual reviews and ASME).

Candidates are strongly encouraged to visit the IIT GN webpage (<http://www.iitgn.ac.in>) for more information on research interests of faculty members, before sending their application form.

### MINIMUM ELIGIBILITY CONDITIONS FOR ADMISSION

1. Minimum of 55% marks / 5.5 (on a 10 point scale) in B.E. /B.Tech or equivalent in appropriate branches (50% marks for SC /ST)
2. Candidates who are GATE qualified are eligible to apply for M.Tech. GATE is not required for application to MTech on part-time basis or DIIT programme.
3. B.Tech graduates from the IITs with CGPA score of 8.0 or above (on scale of 10) would be eligible to admission without having to appear in GATE
4. Candidates applying for the regular M.Tech. programme and being sponsored by their employer may not need to have GATE score and can be considered as sponsored candidates provided (a) candidate has been in service for more than 2 years (b) Employer grants 2 years of study leave and (c) Employer undertakes to financially support the candidate for the entire duration of 2 years.

### ADMISSION PROCEDURE

Admission is offered on the basis of a written test and an interview. All candidates called for the written test and interview will be paid to and fro single second-sleeper class railway fare by the shortest route from their place of residence to the Institute / venue of the Test / Interview. They have to produce evidence (railway ticket) in support of their claim.

### FINANCIAL SUPPORT

All students joining regular MTech program will be considered for assistantship of Rs 8000/month provided they have a qualified GATE. D.IIT and part-time M.Tech. students will not be eligible for financial support.

### APPLICATION PROCEDURE

- Download the Application Form from <http://www.iitgn.ac.in/mtech.htm>

Please read the instructions given below carefully before you fill in the application form. You should furnish all the documentary evidences in original (testimonials, certificates, publications, work experience and research/professional experience) at the time of interview. Incomplete application materials will be rejected.

### ADMISSIONS

Institute will invite the limited number of candidates for a written test and/or interview based on the academic records and GATE score. The final selection will be based on all of above, viz., academic records, GATE score, written test and interview. The Institute may also exercise the option of offering admission to a few outstanding candidates based on academic record and/or GATE, without calling them for written test and/or interview.

### M. TECH. PROGRAMME

- Disciplines:
  - Chemical Engineering
  - Civil Engineering (Courses in: Structures, Geotechnical and Water-Resources Engineering)
  - Electrical Engineering (Courses in: Power & control engineering, Signal processing, Photonics, Microelectronics)
  - Material Science and Engineering (Courses in: Nanomaterials, Materials processing, Biomaterials)

- Mechanical Engineering (Courses in: Thermo-fluids engineering, Dynamics and control)
- 4-semester programme (may take longer in some cases to successfully complete the MTech thesis requirement which depends on the progress of individual's thesis work)
- Total minimum 80 credits in course work and thesis.

#### COURSE WORK

- 32-48 credits of course work (equivalent of 8-12 courses)
- A typical course of 3 lectures per week is assigned 4 credits
- Course work would comprise of
  - Humanities, Social Sciences and Management Courses - minimum 6 credits
  - General Institute Courses - minimum 6 credits
  - Basic Engineering Courses - minimum 6 credits
  - Departmental Core and Elective Courses - balance of the required credits.
- Normally spread over first 3 semesters

#### THESIS

- 32-48 credits of thesis work ( equivalent of 8-12 courses of 4 credits each); can be a research-oriented, developmental, or industrially relevant topic
- Open ended thesis with no deadline for submission
- The quality of thesis to be judged by the research publications, appropriate changes to be made in the programme as needed
- Each thesis unit registered will be assigned S (satisfactory) or U (unsatisfactory) grades
- Grades of thesis units are not counted for the calculation of SPI/CPI.
- Candidates should satisfactorily complete the thesis work for an award of an M.Tech degree and this may require more than 48 research credits.

#### CONTINUATION IN THE M.TECH. PROGRAMME

- A student should maintain a minimum SPI of 5.5 and a minimum CPI of 6.0 at the end of every semester in coursework.
- A student should not accumulate more than three U grades in project.
- Full-time M Tech student will have maximum of three years to obtain the degree.

#### A TYPICAL M.TECH. PROGRAMME STRUCTURE

Semester	Humanities & Social Sciences Courses	General Institute Courses	Basic Engineering Courses	Departmental Core and Elective Courses	Thesis	Total Courses Equivalent	Credits
I	1	2	2	-	-	5	20
II	-	2	-	2	1	5	20
III	1	-	-	-	4	5	20
IV	-	-	-	-	5	5	20

#### **M. TECH. (PART-TIME BASIS) PROGRAMME**

The coursework, research, and thesis requirements for part-time MTech students will be identical to the requirements for regular MTech programme. However, part-time MTech students may take longer than 4 semesters to finish the programme and will not be eligible for financial support.

#### **D. IIT PROGRAMME**

- Disciplines: Chemical Engineering, Civil Engineering, Electrical Engineering, Material Science and Engineering, and Mechanical Engineering.
- 2-semester programme (may take longer based on the condition of successful completion of coursework)
- Total minimum 32-48 credits in course work (actual minimum credits determined by individual disciplines).
- A typical course of 3 lectures per week is assigned 4 credits
- Course work would comprise of
  - Humanities, Social Sciences and Management Courses - minimum 6 credits
  - General Institute Courses - minimum 6 credits
  - Basic Engineering Courses - minimum 6 credits
  - Departmental Core and Elective Courses - balance of the required credits.