



INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

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PhD PROGRAM AT IIT GANDHINAGAR

IIT Gandhinagar offers a broad-based PhD program that strengthens the fundamentals through rigorous coursework and provides intensive exposure to specific fields of research. Students are expected to learn the general philosophy, methods, and concepts of scholarly inquiry, while acquiring specialized knowledge in their area of focus.

The following are the objectives of our PhD program:

- Inculcate a spirit of inquiry and promote scholarship, innovation, and creativity
- Develop scientific and technological research manpower to meet the needs of academia, R&D organizations, and industry
- Nurture the lead researchers of tomorrow
- Contribute towards solution of complex problems of societal relevance requiring multidisciplinary team efforts

The Institute is pursuing sponsored research and development projects from industrial and other organizations in public as well as private sectors. Our PhD students gain exposure to a wide range of such projects. Our core research facilities are being developed and upgraded. For further details on research facilities, including library facilities, please visit our website - <http://www.iitgn.ac.in>.

Applicants are strongly encouraged to visit our faculty webpage for information on research interests of our faculty members, and decide whether their background and research preferences are compatible with those of the faculty.

DISCIPLINE-WISE ELIGIBILITY CONDITIONS FOR ADMISSION

CHEMICAL ENGINEERING	First Class or 60% marks (55% for SC / ST) in: BTech/MTech or equivalent degree in Chemical Engineering OR B.Tech./M.Tech. or equivalent degree in other branches of Engineering may be considered in areas consistent with the research areas of the discipline OR M.Sc. in disciplines consistent with the research areas of the discipline.
CHEMISTRY	First Class or 60% marks (55% for SC / ST) in: Masters or equivalent degree in Chemistry, Biotechnology, Pharmacy, Materials science

CIVIL ENGINEERING	<p>First Class or 60% marks (55% for SC / ST) in:</p> <p>B.Tech. / M.Tech or equivalent degree in Civil Engineering</p>
COMPUTER SCIENCE AND ENGINEERING	<p>Candidates are expected to have MTech/ME in CS with 70% Marks or 7.5 CPI (65% Marks or 7.0 CPI for SC / ST). (Applicants must mention their performance (marks/grade obtained/projects done) in the courses related to his or her research interest).</p> <p>OR</p> <p>MSc in Mathematics CSIR/NET JRF/NBHM qualified or GATE with a rank within top 150 with strong background in discrete mathematics and motivation for doing research in computer science.</p>
ENGLISH, COGNITIVE SCIENCE, PSYCHOLOGY, SOCIOLOGY AND PHILOSOPHY	<p>55% for MA (50% for SC/ST) or equivalent and 60% for BTech/MTech/MSc or equivalent (55% for SC/ST).</p>
ELECTRICAL ENGINEERING	<p>First Class or 60% marks (55% for SC / ST) in:</p> <p>B.E./B. Tech/ M.E. /M.Tech or Equivalent degree in the broad area of Electrical and/or Electronics engineering,</p> <p>OR</p> <p>B.E./B.Tech/M.E./M.Tech or Equivalent degree in other branches of Engineering may be considered in areas consistent with the research areas of the discipline,</p> <p>OR</p> <p>M.Sc in disciplines consistent with the research areas of the discipline</p>
MECHANICAL ENGINEERING	<p>First Class or 60% marks (55% for SC / ST) in:</p> <p>B.Tech. / M.Tech or equivalent degree in Mechanical Engineering OR B.Tech/ M.Tech degree or equivalent in Production Engineering / Industrial Engineering/ Aerospace Engineering OR B.Tech. / M.Tech. Degree in other branches of Engineering / Technology with an outstanding academic record may also be considered for research areas consistent with their academic background and special interests of the discipline.</p>
MATERIALS SCIENCE AND ENGINEERING	<p>First Class or 60% marks (55% for SC / ST) in:</p> <p>B.Tech/M. Tech. or equivalent degree in Materials Science/ Metallurgical/Mechanical/Manufacturing Engineering/ Biotechnology.</p>
MATHEMATICS	<p>M.A./M.Sc. in Mathematics with at least 60% (55% for SC / ST).</p> <p>B.E./ B.Tech with at least 60% (55% for SC / ST) or equivalent CGPA/CPI will also be considered.</p>
PHYSICS	<p>At least 60% marks (55% for SC / ST) or equivalent grade in M.Sc. (Physics)</p> <p>At least 60% marks or equivalent grade in B.E/B.Tech/M.E./M.Tech. in Mechanical Engineering, Civil Engineering or Electrical Engineering.</p>

If required, students should be prepared to undergo coursework at an institute determined by IIT Gandhinagar.

ADMISSION PROCEDURE

Admission is generally offered on the basis of an interview, which is supplemented by a written test if necessary. All candidates called for the Test/Interview are 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.

ADMISSION CATEGORIES

Regular (**RR**): Fulltime residential researcher/candidate.

Start Early PhD Fellowship: B.Tech/MSc graduates of IIT with CPI of not less than 6.0 and top 3 rankers in B.Tech programme in any discipline of all NITs and selected engineering colleges are eligible (regardless of GATE qualification) to early admission in our direct PhD programme. These candidates upon their selection will be admitted as the fulltime residential researcher (RR) PhD program.

External (**ET**): Candidates serving in **research institutions/industry**. External candidates may furnish their employers consent (see Annexure 1) at the time of interview. The candidates under this category may require an additional supervision at their parent institutions.

Faculty Development Program (**FDP**): Candidates working as a **faculty in any educational institution**. In this category the candidate is given advance admission with 90 days of residency requirement in 1st year and on successful completion of 1st year, 2 years of residency to complete the program. A certificate in support of the candidature **must** support the application (see Annexure 2).

FINANCIAL SUPPORT

Students joining the PhD program as regulars (RR) will be considered for Institute Fellowship based on the following norms:

Students with B.E./ B.Tech. / B.Arch / B.Sc.(Engg)/ M.Sc. / M.A. / M.Com. degrees or equivalent, who have qualified GATE or National Level test (UGC / CSIR / NBHM / DBT etc.), will be considered for monthly assistantship of Rs.16000/- for the first 2 years and enhanced rate of Rs.18000/- for the remaining 3 years.

Students with M.Tech. / M.E. / M.Arch / M.Sc.(Engg) or equivalent/ M.Phil./ M.B.B.S / MD / MS degrees and Management students with a combination of M.B.A. and Engineering/ Technical background will be considered for monthly assistantships of Rs. 18000/- for the first 2 years and enhanced rate of Rs.20000/- for the remaining 3 years.

Full time PhD students are encouraged to present their research work at international conferences. Financial support of up to Rs 2.00 lacs for the entire duration of the programme is available. Additional funding may also be provided.

Over and above the monthly assistantship, an additional fellowship of Rs 5,000/- per month is provided to the candidates ranking within the top 5% in any relevant National level qualifying examination.

Candidates who have obtained at least one of their previous degrees from a premier institution like IIT, IISc etc. can be considered for an additional fellowship of Rs 10,000/- per month.

Candidates joining for the PhD program through *start early PhD fellowship* will receive an additional fellowship of Rs 10,000/- per month in case GATE qualified.

Payment of assistantship is subjected to a candidate complying with the prescribed norms and work output.

APPLICATION PROCEDURE

Download the following forms from <http://www.iitgn.ac.in/phd.htm>

- Application Form
- Format for Statement of Purpose

Read the instructions given in the brochure carefully before you fill in the application form. You may apply for as many disciplines as you wish. However, a separate application has to be submitted for each discipline. Note that a statement of purpose may be used as a criterion for shortlisting of candidates.

You need to furnish all the documentary evidences in original (testimonials, certificates, publications, work experience and research/professional experience) at the time of interview. ***Incomplete applications will be rejected.***

ANNEXURE I

Employer's Consent for External Candidates
(This should be typed on your employer's letterhead)

To,
Professor in Charge (Academic Affairs)
Indian Institute of Technology Gandhinagar
Vishwakarma Government Engineering College Campus,
Chandkheda, Visat-Gandhinagar Highway, Ahmedabad, Gujarat,
India – 382424

Dear Sir,

We hereby consent to the candidature of _____ who is an employee in our organization for joining PhD program in _____ at your institute.

We understand your commitment towards high quality research and also emphasize value addition to our employees through high standard PhD program.

We shall relieve her/him from duties in the organization during the entire period of mandatory residential requirement for the PhD program.

Signature and seal of the
Sponsoring Authority

ANNEXURE 2

Employer's Consent for FDP Candidates
(This should be typed on your employer's letterhead)

To,
Professor in Charge (Academic Affairs)
Indian Institute of Technology Gandhinagar
Vishwakarma Government Engineering College Campus,
Chandkheda, Visat-Gandhinagar Highway, Ahmedabad, Gujarat,
India – 382424

Dear Sir,

We hereby consent to the candidature of _____ who is an employee in our institution for joining PhD program in _____ at your institute.

We understand your commitment towards high quality research and also emphasize value addition to our employees through high standard PhD program.

We shall relieve her/him from duties in the institution during the entire period of mandatory residential requirement for the PhD program.

Signature and seal of the
Sponsoring Authority