



INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Admissions to Postgraduate, Ph.D. and Post-Doctoral Fellowship Programmes Session 2010-11

Admissions for the academic session 2010-11 to the following Postgraduate(PG) Programmes leading to M.Tech./M. Arch./MURP will be made on the basis of either Normalized GATE Marks only or Normalized GATE Marks and Interview/Written Test. For Sponsored candidates the admission will be made on the basis of Interview/Written Test and relevant experience. The details regarding various Departments/Centres, academic programmes, number of seats, and minimum educational qualifications are given in serialim below. (Example: Department - Programme / Seats / Minimum Educational Qualification).

M.TECH./M.ARCH./M.U.R.P. PROGRAMMES

Department of Architecture and Planning

- (i) **Architecture** / 18 / B.Arch. or its equivalent
- (ii) **Urban & Rural Planning** / 18 / B.Arch. or its equivalent or Bachelor's degree in Civil Engg.

Alternate Hydro Energy Centre

- (i) **Alternate Hydro Energy Systems** / 25 / Bachelor's degree in Civil/Elect./Mech./Industrial/Chemical/Electronics/Computer/Agricultural/Environmental Engg. or equivalent.

- (ii) **Conservation of Rivers & Lakes** / 15 / Bachelor's degree in Civil/Electrical/Mechanical/Industrial/Chemical/Agriculture/Environmental Engg./Arch./Town Planning, or equivalent or Master's in Science in any subject with Mathematics at graduation level.

Department of Chemical Engineering

- (i) **Computer Aided Process Plant Design**/28/Bachelor's degree in Chemical/Biochemical/Pulp & Paper/Chemical Technology/ Petrochemical/Polymer Technology/ Petroleum Refining or equivalent
- (ii) **Industrial Pollution Abatement** / 28 / Bachelor's degree in Chemical/Pulp & Paper/ Civil/ Biochemical/ Petroleum/ Environmental Engg./ Chemical Technology/ Polymer Technology or equivalent.
- (iii) **Industrial Safety and Hazard Management**/15/ Bachelor's degree in Chemical/Mechanical/ Biochemical/Petroleum/ Environmental Engg./ Chemical Technology/ Pulp & Paper Engineering/Polymer Technology or equivalent.

Department of Civil Engineering

- (i) **Building Technology** / 18 / Bachelor's degree in Civil Engg./ Structural Engg./ Construction Technology, or equivalent, B.Arch. Three seats are reserved for Architecture candidates
- (ii) **Computer Aided Design** / 18 / Bachelor's degree in Civil Engg. or its equivalent.
- (iii) **Environmental Engineering** / 18 / Bachelor's degree in Civil Engg./Chemical Engg./ Environmental Engg., or equivalent.
- (iv) **Geomatics Engineering**/ 18 / Bachelor's degree in Civil Engg./Electronics Engg./ Electrical Engg./Computer Science/Information Technology/Marine Engg./Mining Engg./ Architecture, or equivalent.
- (v) **Geotechnical Engineering** / 18 / Bachelor's degree in Civil Engg. /Mining Engg., or equivalent.
- (vi) **Hydraulic Engineering** / 18 / Bachelor's degree in Civil Engg./Mechanical Engg./ Chemical Engg./Agricultural Engg. or equivalent.
- (vii) **Structural Engineering** / 18 / Bachelor's degree in Civil Engg. or its equivalent.
- (viii) **Transportation Engineering** / 18 / Bachelor's degree in Civil Engg. or its equivalent.

Department of Earthquake Engineering

- (i) **Soil Dynamics** / 18 / Bachelor's degree in Civil/Structural Engg. or equivalent.
- (ii) **Structural Dynamics** / 31 / Bachelor's degree in Civil /Structural, or equivalent.

Department of Electrical Engineering

- (i) **Electric Drives & Power Electronics** / 23 / Bachelor's degree in Electrical Engg. or its equivalent.
- (ii) **Instrumentation and Signal Processing** / 23 / Bachelor's degree in Electrical/ Electronics & Comm./Instrumentation Engg., or equivalent.
- (iii) **Power System Engg.** / 23 / Bachelor's degree in Electrical Engg. or its equivalent.
- (iv) **Systems and Control** / 23 / Bachelor's degree in Electrical/Electronics & Comm./ Instrumentation Engg., or equivalent.

Department of Electronics and Computer Engg.

- (i) **Communication Systems** / 18 /Bachelor's degree in Electronics & Comm. Engg. or its equivalent.
- (ii) **System Modeling and Control** / 15 /Bachelor's degree in Electronics & Comm. Engg./Elect. Engg. or equivalent.
- (iii) **R. F. & Microwave Engg.**/ 15 /Bachelor's degree in Electronics & Comm. Engg. or its equivalent.
- (iv) **Microelectronics and VLSI** / 15 /Bachelor's degree in Electronics & Comm. Engg. or its equivalent.
- (v) **Computer Science & Engg.** / 31 /Bachelor's degree in any branch of Engg./ Tech. or M.Sc. in Electronics/Computer Science/Physics/Maths/Statistics or MCA.
- (vi) **Information Technology**/ 23 /Bachelor's degree in any branch of Engg. /Tech. or M.Sc. in Electronics/Computer Science or MCA.

Department of Hydrology

- Hydrology** / 15 / Bachelor's degree in Civil/Mechanical/Agricultural Engg./Hydrology or its equivalent; M.Sc./M.Tech. in Chemistry/Geology/Geophysics/Applied Geology/ Applied Geophysics/Physics/ Meteorology/ Geography/Atmospheric Physics/Env. Science with mathematics in B.Sc. as one of the subjects or M.Sc. (Master's) degree in Statistics with physics or mathematics at B.Sc., or M.Sc. degree in Mathematics with Physics in B.Sc. or its equivalent.

Department of Mechanical and Industrial Engg.

- (i) **CAD, CAM & Robotics**/15/Bachelor's degree in Mechanical/Industrial/Production Engg. or equivalent.
- (ii) **Machine Design Engineering** / 18 / Bachelor's degree in Mechanical /Industrial / Production /Aeronautical/Automobile Engg. or equivalent.
- (iii) **Production & Industrial Systems Engineering** / 18 / Bachelor's degree in Mechanical / Industrial/Production Engg. or equivalent.
- (iv) **Thermal Engineering** / 18 / Bachelor's degree in Mechanical/Industrial/Production/ Chemical /Aeronautical/Automobile Engg. or equivalent.
- (v) **Welding Engineering** / 18 / Bachelor's degree in Mechanical / Industrial/Production/ Metallurgical Engg. or equivalent.

Department of Metallurgical and Materials Engg.

- (ii) **Corrosion Engineering** / 18/ Bachelor's degree in Metallurgical & Materials Engg.

or its equivalent or Engineering Graduate of all branches or M. Phil degree in Chemistry, Physics or Materials Science.

- (ii) **Industrial Metallurgy** / 18 / Bachelor's degree in Metallurgical /Mechanical / Industrial/Production Engg. or equivalent.
- (iii) **Physical Metallurgy** / 18 / Bachelor's degree in Metallurgical Engg. or its equivalent.

Department of Paper Technology, Saharanpur Campus

Pulp & Paper / 18 /B.Tech./B.E. degree in Chemical Engg. or Chemical Technology/Pulp & Paper Engg./Mechanical Engg./Polymer Engg./ Biotechnology/Cellulose Technology/Alcohol, food and Fermentation Technology, or equivalent. **Note:-** The two years Post B.Sc. diploma awarded by the IPT/ DPT plus a minimum of two years relevant experience in Industry/Research Organization will be considered equivalent to a B.Tech./B.E. degree.

Department of Water Resources Development & Management

- (i) **Irrigation Water Management**/3/Bachelor's degree in Civil Engg. or its equivalent/Agricultural Engg. or M.Sc. Agriculture in Agronomy, Soil Science, Agrometeorology with mathematics as one of the papers at the level of B.Sc./ B.Sc. Agriculture.
- (ii) **Water Resources Development**/12/ Bachelor's degree in Civil /Electrical/ Mechanical/Electronics & Telecommunication Engg. or equivalent.

Department of Chemistry

M.Tech. (Advanced Chemical Analysis) / 15 / B. Tech. (Chemical Engg.)/M.Sc. (Chemistry) / M.Sc. (Environment Science) or its equivalent.

Department of Physics

M.Tech. (Solid State Electronic Materials) / 18 / B.Tech. Engg. Physics/M.Sc. (Physics)/Bachelor's degree in Electrical/Electronics/Metallurgical Engg. or its equivalent.

Centre for Nanotechnology

M.Tech. (Nanotechnology) / 15 / B.Tech. (Met. & Mat. Engg./Mech. Engg./E&C/ Electronics/Chemical Engg./Pulp & Paper/Biotechnology) or its equivalent; M.Sc. (Physics/Chemistry/Biotechnology) or its equivalent with Mathematics at 10+2 or higher level.

NOTE : The Minimum Duration for all Programmes will be 4 Semesters for Full Time and 6 Semesters for Part Time candidates.

SUBMISSION OF FILLED APPLICATION FORM

The filled Application Form (Downloaded from Institute website or Obtained by written request as the case may be) alongwith Application Fee through a Demand Draft drawn in favour of "Chairman, PG Admission, IIT Roorkee" payable at Roorkee, as given below is sent to the "Chairman, PG Admission, IIT Roorkee, ROORKEE-247667".

For General/OBC Category : Rs. 400/- + *Rs. 100/-
For SC/ST/PD Category : Rs. 200/- + *Rs. 100/-
*Rs. 100/- per additional department (if applied)

IMPORTANT NOTE

A candidate may apply maximum for four Departments and 14 different programmes but **ONLY ONE** Application Form is to be filled-up. However, fee of Rs. 100/- per additional Department shall be payable by the candidate. Admission will be made strictly on the basis of order of preferences for eligible programmes/GATE disciplines.

ELIGIBILITY CRITERIA

A minimum aggregate score of 60% or 6.00 CGPA on 10 point scale for General/OBC candidates and 55% or 5.50 CGPA on 10 point scale for SC/ST/PD candidates at the qualifying degree is essential for all the above programmes.

ADMISSION CRITERIA

Admission will be made on the basis of either Normalized GATE Marks only or Normalized GATE Marks and Interview/Written Test. For Sponsored candidates the admission will be on the basis of Interview/Written Test and relevant experience. There will be cut off for calling the candidates for Interview/Written Test and/or for preparing merit list for different programmes for different categories of candidates. The Normalized GATE marks will be calculated as follows:

$$\text{Normalized GATE Marks in the Paper} = \frac{\text{Marks Out of 100 of the candidate}}{\text{Maximum Marks Awarded in that Paper}} \times 100$$

B.Tech. degree holders from IITs with minimum CGPA of 8.00 on 10 point scale will also be eligible for admission with MHRD assistantship without GATE.

RESERVATION OF SEATS

Certain number of seats are reserved for candidates belonging to SC/ST/OBC categories and Person with Disabilities (PD) as per the Govt. of India rules. For details refer to the Information Brochure.

FINAL YEAR CANDIDATES

Candidates appearing for the final year of their qualifying examination are also eligible to apply.

Ph.D. Programmes and Post-Doctoral Fellowship

Applications are also invited for admission to Ph.D. and Post-Doctoral Fellowship programmes for the Autumn Semester of the Session 2010-11. The filled Application Form may be sent to the "Chairman, PG Admission, IIT Roorkee, Roorkee-247667", along with a Demand Draft of Rs. 200/- per department drawn in favour of "Chairman, PG Admission, IIT Roorkee" payable at Roorkee.

HOW TO DOWNLOAD/OBTAIN APPLICATION FORM

A) Download Application Form from Institute website: The Application Form alongwith the Information Brochure can be downloaded from Institute website <http://www.iitr.ernet.in> from March 19, 2010 to April 19, 2010. B) Obtain Application Form by making written request: The Application Form alongwith the Information Brochure can be obtained from the "Chairman, PG Admission, IIT Roorkee, ROORKEE-247 667" by sending a Demand Draft of Rs. 50/- drawn in favour of "Chairman, PG Admission, IIT Roorkee" payable at Roorkee, along with a self addressed envelope of "A4 size" which should reach latest by April 09, 2010. Chairman, PG Admission-10

Last date for the receipt of filled Application Form: Monday, April 19, 2010

For more details visit the Institute website: <http://www.iitr.ernet.in> or contact "Chairman PG Admission Office" at Phone No. 01332-284010/285875