



# INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

## Roorkee 247 667, Uttarakhand, India

### Admission to Ph.D. Programmes (Spring Semester 2011-12)

#### THE INSTITUTE

Indian Institute of Technology Roorkee (Formerly University of Roorkee), a premier Institute of Science and Technology, has a distinguished tradition of excellence spanning over 160 years. The Departments / Centres of the Institute are engaged in teaching, research and consultancy in the field of Engineering, Technology, Science and Management. The Institute offers 22 Undergraduate Courses including IDD and Integrated M.Tech. in Engineering & Architecture and 51 Postgraduate Courses in Engineering, Architecture, Science, Technology and Business Administration. The Institute has been placed at the top in the country in coveted sector employment in Science and Technology.

#### PH.D. PROGRAMME

Applications are invited for admission to full time/part time Ph.D. Programmes in the following departments/centres:

#### DEPARTMENTS

- Alternate Hydro-Energy Centre . Architecture and Planning . Biotechnology . Chemical Engineering . Chemistry
- Civil Engineering . Earthquake Engineering . Earth Sciences . Electrical Engineering . Electronics & Computer Engg.
- Humanities and Social Sciences . Hydrology . Management Studies . Mathematics . Mechanical & Industrial Engineering
- Metallurgical & Materials Engineering . Physics . Paper Technology . Water Resources Development & Management

#### CENTRES OF EXCELLENCE

- Centre for Transportation Systems(CTRANS) . Centre for Disaster Mitigation . Centre for Nanotechnology.

#### OTHERS

- Institute Instrumentation Centre

#### ADMISSION CATEGORIES

The applicant for admission to the Ph.D. programme shall be classified under any one of the following categories which will be decided and recommended by DRC/CRC.

#### (I) Full-time Research student/Candidate

- Research student/Candidate getting Institute MHRD assistantship.
- Research student/Candidate including foreign nationals getting financial support from Govt. / Semi Govt. agencies (QIP, CSIR, UGC, DAE, DST, DBT, NBHM, JEST, ICCR, NDF, etc.)
- Research student/Candidate including foreign nationals supported by a sponsoring organization, the applicant (Sponsored Research Student/ Candidate) having TWO years experience out of which at least ONE year experience with the sponsoring agency.
- Self Financed Research student/Candidate

—**Indian:** This category refers to persons with experience and with good track record to join the doctoral programme. They will be admitted along with the regular research students through the usual admission procedure.

—**Foreign:** Admission of Foreign nationals to Ph.D. programme will be made as per policy and direction of the Govt. of India from time to time

—**Study Leave:** This category refers to persons who are released from governmental or educational institutions on study leave for a period of not less than three years for pursuing Ph.D. programme. They will be admitted along with the regular research students through the usual admission procedure.

\*e) Research student / Candidate regularly working full time in an R & D project at IITR. His Ph.D. topic is in confirmation to the project as certified by the SRC.

#### (II) Part-time Research Student/ Candidate:

- Research student/Candidate working as a regular employee in the Institute
- Research student / Candidate working regularly full-time in an R&D project in the institute. The project must have tenure of at least next 2 years.
- Research student / Candidate working in other organizations / institutes, approved by IIT Roorkee as Research Centre or having MoU for research purposes.

\* The research student / candidate working in a project will be given full time status, provided his research for Ph.D. is related to the project as certified by the SRC. However, part time research student/candidate may be given full time status when the project tenure is completed.

#### ADMISSION ELIGIBILITY

1. An applicant belonging to the above admission categories should possess the following qualifications in appropriate areas to be eligible to apply for admission for the Ph.D. programme of the Institute.

- Masters degree in Engineering/ Technology/ Architecture/ Urban & Rural Planning / Pharmacy / Computer Applications of 3 years duration after graduation in respective discipline or equivalent with a minimum Cumulative Grade Point Average (CGPA) of 6.00 on a 10 point scale or equivalent as determined by the Institute wherever letter grades are awarded; or 60% marks in aggregate (of all the years/semesters) where marks are awarded.

OR

- Masters degree in Sciences/Humanities & Social Sciences/ Management in respective discipline or equivalent with a **valid NET or valid GATE or valid GPAT** score and minimum Cumulative Grade Point Average (CGPA) of 6.00 on a 10 point scale or equivalent as determined by the Institute where letter grades are awarded; or 60% marks where marks are awarded.

OR

- B.Tech. / B.Arch. degree or equivalent in respective discipline with excellent academic record (with a minimum CGPA of 7.0 on a 10 point scale or equivalent or 70% marks) and in possession of a valid GATE score.

2. The admission eligibility requirements may be relaxed to 5.5 on a 10 point scale or equivalent, or to 55% marks to the following categories:

- SC/ST candidates with Master's degree.
- Any category of PD (Persons with disabilities) Candidate holding B.Tech. degree or equivalent degree.
- Academic staff of the Institute who has an experience of more than 5 years.

#### 3. Eligibility for Part-time Ph.D.

- The applicant possesses the minimum entry qualifications for the degree as given in admission eligibility point 1;
- The applicant proves that his official duties permit him to devote sufficient time to research;
- He / She will be required to reside at the Institute for a period of not less than 6 months during his/her registration for the degree. (This condition of minimum residence period will be automatically waived for candidates who are working in Roorkee or in Organizations / institutions located within a distance of 100 km from the Institute).
- The facility of part time registration will also be available to all employees of the IIT Roorkee or candidates working in organizations having MoU with IITR or organizations approved by IIT Roorkee as Research Centres. Such applicants are exempted from the requirement of having valid GATE/NET/GPAT.
- The applicants must have been in continuous service with the sponsoring organization for at least two years at the time of submitting the application form for admission.
- The candidates working in Institute/University awarding Ph.D. degree itself are not eligible for admission as part-time candidate.

4. Employee seeking admission to the Ph.D. programme with minimum of two years service in an organization or confirmed regular employee may obtain and submit 'No Objection Certificate' from the employer to the effect that the duties allotted by the employer will allow the required time for this pursuit.

#### HOW TO APPLY

- The candidate is required to download Bank Challan Proforma alongwith application form from [www.iitr.ernet.in/admissions](http://www.iitr.ernet.in/admissions) and then deposit the requisite fee of Rs. 200/- in any branch of Punjab National Bank throughout the country. The Bank Challan will be printed in triplicate. It is only available on Institute website and pay the fees through it. Bank will retain a copy and will return two copies to you. In those two copies, retain the Candidate's copy with you and attach the IITR's copy with the application form.

OR

In case Punjab National Bank Branch is not available at his/her place or nearby place, then send the demand draft of Rs.200/- **in favour of Chairman PG Admission, IIT Roorkee payable at Roorkee**. The completed application form should be sent to Chairman, PG Admission, IIT Roorkee.

**Note:- Separate application be sent for separate departments/centres and for each department/centre separate fees will be required with each completed application form.**

**LAST DATE FOR RECEIPT OF COMPLETED APPLICATION FORM IS OCTOBER 18, 2011**

For more information, please contact : Chairman, PG Admission-2012, Indian Institute of Technology Roorkee, Roorkee - 247667 (India)

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Chairman, PG Admission-2012