Programme | Duration (Semesters) | Intake* (with MHRD Assistance/All)
--- | --- | ---
25. M.Tech, (Electrical Drives & Power Electronics) | 4 | 23

**ELECTRONICS & COMMUNICATION ENGINEERING**

26. M.Tech. (Communication System) | 4 | 18
27. M.Tech. (VLSI/Field-Oriented Control) | 4 | 18
28. M.Tech. (Micro Electronics's VLSI) | 4 | 15

**COMPUTER SCIENCE & ENGINEERING**

29. M.Tech. (Computer Science & Engineering) | 4 | 54

**HYDROLOGY**

30. M.Tech. (Hydrology) | 4 | 15

**MECH. & INDL. ENGINEERING**

32. M.Tech. (Production & Industrial Systems Engg.) | 4 | 18
33. M.Tech. (Thermal Engg.) | 4 | 18
34. M.Tech. (Welding Engg.) | 4 | 18
35. M.Tech. (C.A.D., CAM & Robotics) | 4 | 15

**METALLURGICAL & MATERIAL ENGINEERING**

36. M.Tech. (Industrial Metallurgy) | 4 | 18
37. M.Tech. (Materials Engg.) | 4 | 18

**PAPER TECHNOLOGY**

38. M.Tech. (Pulp & Paper) | 4 | 18
39. M.Tech. (Packaging Technology) | 4 | 20

**WATER RESOURCES DEVELOPMENT & MANAGEMENT**

40. M.Tech. | 4 | 12
(3 Years- Water Resources Development)
41. M.Tech. | 4 | 03
(Irrigation Water Management)

**CENTRE FOR NANO TECHNOLOGY**

42. M.Tech. (Nanotechnology) | 4 | 15

**DISASTER MITIGATION AND MANAGEMENT**

43. M.Tech. (Disaster Mitigation and Management) | 4 | 15

**CENTRE FOR TRANSPORTATION SYSTEM**

44. M.Tech. (Infrastructure System) | 4 | 15

**CHEMISTRY**

45. M.Tech. (Advace Chemical Analysis) | 4 | 15

**PHYSICS**

46. M.Tech. (Solid State Electronics Materials) | 4 | 18

--- ** Note:**

1. Admissions are also accepted to candidates sponsored by industries, QIP, Defence, Atomic Energy etc.
2. Admissions on part time basis are also available.
3. MHRD Assistance: Rs. 12000/- per annum.
4. Reservation of SC/ST/OBC candidates in admission to above courses is as per order of Ministry of Human Resource Development, Govt. of India.

--- **Ph.D. PROGRAMME**

Ph.D. programmes are available in all Departmental Centers. Admissions are made twice in a year in July and December. There is provision to admit students to Ph.D. programmes with MHRD assistance at Rs. 26,000/- pm to JRF & Rs. 28,000/- pm to SRF. Besides admission are also offered to candidates under sponsored category.

--- **SITUATION FILE STRUCTURE**

(a) **INDIAN STUDENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>₹ per annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.Tech., (Engg.)</td>
<td>4 Years</td>
<td>90,000/-</td>
</tr>
<tr>
<td>B.Architecture</td>
<td>5 Years</td>
<td>90,000/-</td>
</tr>
<tr>
<td>Integrated Dual</td>
<td>5 Years</td>
<td>90,000/-</td>
</tr>
<tr>
<td>Degree (IDD) (B.Tech. + M.Tech.)</td>
<td>5 Years</td>
<td>90,000/-</td>
</tr>
<tr>
<td>Integrated M.Sc.</td>
<td>5 Years</td>
<td>90,000/-</td>
</tr>
<tr>
<td>M.Tech. (Engg.), M.Arch.</td>
<td>2 Years</td>
<td>10,000/-</td>
</tr>
<tr>
<td>M.Sc.</td>
<td>2 Years</td>
<td>6,000/-</td>
</tr>
<tr>
<td>M.B.A.</td>
<td>2 Years</td>
<td>2,000,000/-</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>3 to 4 Years</td>
<td>5,000/-</td>
</tr>
</tbody>
</table>

(b) **FOREIGN STUDENTS**

Full Time: 2000 US$ per year for students from SAARC countries, 4000 US$ per year for students from other countries.

Part Time: 50 US$ per credit for student from SAARC countries, 100 US$ per credit for student from other countries.

--- **11. FACULTY / STAFF STRENGTH (15.09.2015)**

Faculty (Prof., Assoc.Prof., Asst.Prof., Asstt. Prof., (on contract), Emeritus Fellow, Visiting Faculty, DST Inspire Faculty & Post Doctoral Fellow

Group A: Academic Staff | 19
Group A: Technical Staff | 25
Group A: Administrative & other staff | 33
Group B, C, D Staff | 738

Average Age of Faculty Members Exist During Last Five Year


Journals | 1208
Conference / Symposia | 600
Total | 1808

--- **13. NEW CONSULTANCY PROJECTS (1.4.2014 to 31.3.2015)**

Number of Projects | 556
Outlay (Rupees in Lakh) | 3805.36

--- **14. NEW SPONSORED RESEARCH PROJECTS (1.4.2014 to 31.3.2015)**

Number of Projects | 88
Outlay (Rupees in Lakh) | 1967.91

--- **15. NO. OF STUDENTS ON ROLL (2015 - 16)**


Placement offers made: Total No. of offers | 1203
UG: 623 (65.05% of registered UG Students)
IDD: 135 (76.70% of registered IDD Students)
PG: 432 (59.67% of registered PG Students)
No. of Companies Visited | 233
Number of Summer Internship offers | 264
(Through In-Train Placement Office)

--- **17. STUDENT TRAINING / STUDY ABROAD (2014 - 15)**

Students are selected to study abroad for part of their programme/Programme / Scheme
DDA, Germany | Dissertion Internship
Lucerne University of Applied Sciences, Switzerland | Semester Exchange
KTH, Sweden | Semester Exchange

--- **18. SOLARIFICATION OF CAMPUS**

- Solar PV (1.8 MW) for electricity generation (about 2.5 million units)
- Solar steam for cooking (students host 9 nos. equivalent to 5000 cylinders of 14.2 kg LPG)
- Water heating (4.5 Lacs litres per day equivalent to 6 million units) covering entire campus

--- **19. OTHERS**

- Technology Incubation and Development of Entrepreneurship Support
- Anusandhuti (nurturing silence, creating lives)
- Asmita (Society for Women)
1. HISTORICAL PERSPECTIVE
ITR Roekee has its roots in the Roekee College which was set up in 1847. It was renamed as the Thomson College of Civil Engineering in 1854. The College laid the foundation of modern engineering education and the use of civil engineering practices in the infrastructure development of the country. The irrigation infrastructure in the form of dams and canals, roads and highways, railways bridges etc. in the country - all have been the outcome of the engineering education imparted in this - the only engineering institution in the country at that point of time.

It got elevated as the first technical University of the country in 1948 through the Roekee University Act, 1947 passed by the United Provinces Legislature. Roekee University also became the first institution in the country to offer postgraduate programs in engineering and technology in 1955. On September 21, 2001, the University was converted into ITR by the Government of India through an Act of Parliament and Recognised it as an Institution of National Importance.

2. ACADEMIC DEPARTMENTS
1. Architecture & Planning
2. Bio-technology
3. Chemical engineering
4. Chemistry
5. Civil engineering
6. Earth Sciences
7. Earthquake engineering
8. Electrical engineering
9. Electronics & Communication Engineering
10. Computer Science & Engineering
11. Humanities & Social Sciences
12. Hydrology
13. Management Studies
14. Mathematics
15. Mechanical & Industrial engineering
16. Metallurgical & Materials engineering
17. Pub and Paper Technology
18. Polymer and Process engineering
19. Applied Sciences and engineering
20. Physics
21. Water Resources Development and Management

3. CENTRES OF EXCELLENCE
1. Transportation System
2. Nanotechnology
3. Disaster Mitigation and Management
4. Urban Design & Development
5. Healthcare
6. Packaging Technology
7. Himalayan Studies
8. ITR - NCC Research Centre Noda

4. MAJOR FACILITIES
(a) ACADEMIC
- National facility on Geochronology and Isotope Geology
- Strong Motion Instrumentation Network
- Snake Table and Shock Table For Earthquake Studies
- Ground Motion Simulation
- Atmospheric Research Laboratory
- Large Boundary Layer Wind Tunnel
- Satellite Earth Station
- Automated X-Ray diffractometer
- Real-time digital ultrasound/ultrasonic simulator
- 500 MHz NMR machine
- Universal Testing Machine (Static & Dynamic)
- Transmission Electron Microscope
- Atomic Absorption Spectrophotometer
- Vibrating Sample Magnetometer
- Mossbauer Spectrometer
- Inductively Coupled Plasma Mass Spectrometer
- Laser Microprobe
- Thermal Analysis System
- Electron Probe Micro Analyser
- Scanning Probe Microscope/FESEM
- X-ray Diffractometer Power and Single Crystal
- Superconducting Quantum Interface Device (SQUID)
- Scanning Electron Microscope
- Dual Chamber Magnetron Sputtering System
- Pulsed Laser Deposition System
- Macro Molecular Crystallographic Unit
- Atomic Force Microscope
- Raman Spectrophotometer
- Magnetic Susceptibility Measurement
- Liquid Chromatography-Mass Spectrophotometer
- Close - Loop Servo Control Actuator
- Vector Network Analyzer (90 GHz)
- PECVD Deposition System
- MALDI - TOF - TOF
- Surface Plasmon Resonance (SPR)
- Convex Laser Scanning Microscope
- JNM - ECD - 400 - FT NMR system
- Polyaxial Test Apparatus
- Thermo Mechanical Simulator
- High Resolution Transmission Electron Microscope

(b) EXTRA CURRICULAR
- State of the Art Daylight Sports Facilities
- Hobbies Club, Students Club, Boat Club, Cultural Society, Himalayan Explorer's Club, Multi Activity Centre, Community Centre, Staff Club

5. CENTRAL LIBRARY
New library has been designed as a dynamic engine for the furtherance of academics excellence.

Library Membership
- Print Journals
- Online Journals
- Online Journals (Back Volumes)
- Print Journals (Back Volumes)
- Printed Books
- Online Journals (Access on Perpetual basis)
- Online Journals (Access on Subscription basis)
- Archival Collection
- Books (Hindi Language)
- Theses & Dissertations
- Records in Institute Repository - Bhagirath
- Records in Institute Repository - Shodh Bhagirath

6. THE INSTITUTE ESTATE
- Roekee Campus
- Saharanpur Campus
- Greater Noida Extension Centre

7. UNDERGRADUATE PROGRAMME (2015-16)
Programme | Duration (years) | Intake
---|---|---
1. B. Arch. | 5 | 40
2. B.Tech. Biotechnology | 4 | 45
3. B.Tech. Chemical | 4 | 110
4. B.Tech. Civil | 4 | 135
5. B.Tech. CSE | 4 | 75
6. B.Tech. Electrical | 4 | 140
7. B.Tech. E&C | 4 | 75
8. B.Tech. Prod. & Ind. | 4 | 60
9. B.Tech. Met. & Mat. | 4 | 110
10. B.Tech. Mechanical | 4 | 80
11. B.Tech. Polymer Science | 4 | 40

INTEGRATED M.TECH.
1. Geological Technology | 5 | 30
2. Geophysical Technology | 5 | 30

INTEGRATED MASTER’S OF SCIENCES
1. Applied mathematics | 5 | 30
2. Engg. Physics | 5 | 30

8. POST GRADUATE PROGRAMME (2015-16)
Programme | Duration (Semesters) | Intake
---|---|---
1. M.Sc. Biotechnology | 4 | 37
2. M.Sc. Chemistry | 4 | 25
3. M.Sc. Applied Geology | 4 | 15
5. M.Sc. Physics | 4 | 25

MANAGEMENT
6. Masters of Business Admin. | 4 | 95

ENGINEERING / ARCHITECTURE

ARCHITECTURE & PLANNING
7. M.Arch. | 4 | 18
8. M.U.R.P. | 4 | 18

ALTERNATE HYDRO ENERGY CENTRE
10. M.Tech. (Environmental Management of Rivers and lakes) | 4 | 15

CHEMICAL ENGINEERING
11. M.Tech. (Chemical Engineering) | 4 | 28
12. M.Tech. (Industrial Pollution Abatement) | 4 | 28

CIVIL ENGINEERING
14. M.Tech. (Geotechnical Engg.) | 4 | 24
15. M.Tech. (Hydraulic Engg.) | 4 | 18
16. M.Tech. (Geomatics Engg.) | 4 | 24
17. M.Tech. (Structural Engg.) | 4 | 36
18. M.Tech. (Transportation Engg.) | 4 | 24

GEOTECHNICAL ENGINEERING
19. M.Tech. (Geotechnical Engg.) | 4 | 24
20. M.Tech. (Structural Dynamics) | 4 | 31
21. M.Tech. (Seismic Vulnerability & Risk Assessment) | 4 | 15

ELECTRICAL ENGINEERING
22. M.Tech. | 4 | 23
23. M.Tech. (Instrumentation and signal Processing) | 4 | 23
24. M.Tech. (System & Control) | 4 | 23