

## THE INSTITUTE



The Institute has an illustrious history and a glorious past. It has its foundations in the Roorkee College, which was founded in 1847, to train technical manpower for making the Ganga Canal. It was the first Engineering College in the entire British Empire at that time. This was later renamed as the Thomason 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. Major civil works in the country like dams, canals, roads, highways, railways, bridges etc., are the outcome of the engineering education imparted in this College.

In 1946, when teaching in Electrical and Mechanical Engineering was started, the college was renamed as Thomason College of Engineering. In 1949, it was elevated to the status of the first engineering University of independent India. Ever since its inception, the University has grown phenomenally in size and reach. On September 21, 2001, the University was converted to an IIT by the Government of India through an Act of Parliament and is now known as the Indian Institute of Technology, Roorkee. The most conspicuous feature of the Institute is that the academic directions are all the time conceived to be relevant to the Indian society and its needs.

The Institute has modern education and training programmes in engineering, applied sciences and social sciences including management. The Institute has excellent lecture theatres, laboratories, libraries, analytical instruments and computational and networking facilities. The Institute is well endowed with modern auditoria, conferencing, multi-media and video facilities and well maintained guest houses.

IIT Roorkee is situated at the foothill of the Himalayas, in Hardwar district, within the state of Uttaranchal. It is the gateway to the pilgrim centres of Hardwar, Rishikesh, Badrinath and Kedarnath, and tourist attractions of Dehradun and Mussoorie. Roorkee is well connected to Delhi by rail and road. It is situated on National Highway 58 and 73 and is on Amritsar-Howrah main rail route. New Delhi-Dehradun-New Delhi Shatabdi Express and Dehradun-New Delhi-Dehradun Janshatabdi Express stop at Roorkee and make travel between Delhi and Roorkee convenient. The nearest airport is located at Jollygrant, Dehradun. However, New Delhi is the preferred airport.

The Institute has two campuses. The main campus is at Roorkee in Uttaranchal and the other one is 50 km away at Saharanpur in Uttar Pradesh. The campus at Roorkee is spread over 146 hectares (356 acres)



of landscaped greenery. Nestled within this are several heritage buildings, modern academic departments, hostels, messes, hospital, school, banks, community centres, playing fields, sports stadium, a modern swimming pool, yoga bhawan, dairy, students' clubs and several activity centres and other buildings. The Department of Paper Technology is located in a 10-hectare campus at Saharanpur.

Co-curricular and extra-curricular activities are carried out under the auspices of the Students' Club, Hobbies Club, Cultural Society, the Himalayan Explorers' Club, Educational Cinema Club, Sports Association, National Cadet Corps (NCC) and various departmental students' societies.

The National Assessment and Accreditation Council (NAAC), under the UGC, has given the highest rating, five star, to the erstwhile University of Roorkee.

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## ACADEMIC DEPARTMENTS AND CENTRES

The Institute is one of the biggest technical institutions in the country, and has the largest number of academic units. It has 18 academic departments covering engineering, applied sciences, humanities & social sciences, and management programmes, 6 centres and a large number of research centres.

### Academic Departments

- Architecture & Planning
- Biotechnology
- Chemical Engineering
- Chemistry
- Civil Engineering
- Earth Sciences
- Earthquake Engineering
- Electrical Engineering
- Electronics & Computer Engineering
- Humanities & Social Sciences
- Hydrology
- Management Studies
- Mathematics
- Mechanical & Industrial Engineering
- Metallurgical & Materials Engineering
- Paper Technology
- Physics
- Water Resource Development Training Centre

### Centres

- Alternate Hydro Energy Centre
- Centre for Continuing Education
- Institute Computer Centre
- Institute Instrumentation Centre
- Information Superhighway Centre
- Quality Improvement Programme Centre

## TEACHING AND EVALUATION SYSTEM

Each academic year is divided into two semesters and teaching programmes are organized around the credit system. Teaching includes lectures, tutorials, practicals, projects, seminars, dissertations and field & industrial training. The Institute lays special emphasis on the tutorial system, which is based on a close personal interaction between students and teachers. The undergraduate students have to undergo a comprehensive project during the final year of their studies. A distinct feature of the education system at Roorkee is the emphasis on overall personality development and instilling in students the qualities of leadership. Thus, extra curricular activities are an important part of student life. The Institute has provided the largest number of engineers in the task of nation building.

Academic committees and faculty board of each Department use course-appraisal to review the course content. At the end of each semester every student gives a feedback on the course content, its relevance and performance of the teacher. Feed back from students has helped in continually improving courses and teaching quality.

### ACADEMIC STATISTICS FOR 2003-2004

<b>Staff Strength</b>	<b>1634</b>
Academic Staff	366
Administrative & Supporting Staff	1268
<b>Student Strength</b>	<b>3487</b>
Undergraduate (UG) Programmes	1667
Postgraduate (PG) Programmes	1304
Ph.D.	516
<b>Student/Academic Staff Ratio = 10.4:1</b>	
<b>PG/UG Student Ratio = 1.26:1</b>	
<b>Number of Students Admitted</b>	<b>1407</b>
Ph.D.	199
M.Phil	14
M.Tech., M.Arch. and MURP	395
M.Sc./ M.Tech (Earth Sciences)	177
M.B.A.	44
M.C.A.	30
P.G. Diploma	44

B.Tech. and B.Arch.	316
Preparatory Course B.Tech	50

## ACADEMIC PROGRAMMES

IIT Roorkee offers a wide range of academic programmes. It runs 10 undergraduate, 61 postgraduate and several doctoral programmes. 3487 students were studying in different programmes in the session 2003-2004.

### Undergraduate (UG) Programmes

The Institute offers ten undergraduate programmes leading to B. Arch. and B. Tech. degrees, which are of 5 and 4 years duration, respectively. These programmes are in the following disciplines:

• Architecture
• Chemical Engineering
• Civil Engineering
• Computer Science & Engineering
• Electrical Engineering
• Electronics & Communication Engineering
• Industrial Engineering (Production and Industrial Engineering w.e.f. academic year 2003-2004)
• Mechanical Engineering
• Metallurgical & Materials Engineering
• Pulp and Paper Engineering

During the session 2003-2004, 504 students were admitted to different UG programmes and a total of 1667 were registered in different years of UG programmes. All the IITs make admission to these programmes on the basis of a Joint Entrance Examination (J.E.E.).

### Dual Degree Programmes

Five year dual degree programmes have started from the academic session 2003–2004. Admission weremade through the Joint Entrance Examination (JEE) and students will be awarded both B.Tech. and M.Tech. degrees after completion of 5 years.

<i>Sl. No.</i>	<i>Academic Department</i>	<i>Programmes</i>	
		<i>Main Discipline B.Tech.</i>	<i>Specialization M.Tech.</i>
1.	Chemical Engineering	Chemical Engineering	Hydrocarbon Engineering
2.	Electronics and Computer Engineering	Electronics and Communication Engineering	Wireless Communication
		Computer Science and Engineering	Information Technology

### **Postgraduate (PG) Programmes**

The predecessor of the IIT Roorkee, the University of Roorkee, pioneered postgraduate programmes in engineering and technology, way back in 1955. During the session 2003-2004, 903 students were admitted to the PG programmes and a total of 1820 students were registered in these programmes.

Admission to PG programmes is made on the basis of GATE score and/or on the basis of the written test and interviews. Non Resident Indians (NRI) and foreign nationals are also admitted to PG programmes. Sponsored candidates, including those through Quality Improvement Programme (QIP), form another channel for admission to these programmes. IIT Roorkee is the only institution in the country which has special PG programmes in Earthquake Engineering, Water Resources Development & Management, Hydrology, Welding Engineering, Alternate Hydro Energy System and Paper Technology.

### **PG Programmes in Engineering and Architecture**

<i>Sl. No.</i>	<i>Academic Department</i>	<i>Programmes</i>
<b>M.Tech./M.Arch. &amp; M.U.R.P.</b>		
1.	Architecture & Planning	M.Arch.
		M.U.R.P.
2.	Alternate Hydro Energy Centre	Alternate Hydro Energy System
3.	Chemical Engineering	Computer Aided Process Plant Design
		Industrial Pollution Abatement

Sl. No.	Academic Department	Programmes
4.	Civil Engineering	Building Science & Technology
		Computer Aided Design
		Environmental Engineering
		Geo-technical Engg./Rock Mechanics*
		Hydraulics Engineering
		Geomatic Engineering
		Structural Engineering/Bridge Engg.*
		Transportation Engineering/ Traffic Engineering*
5.	Earthquake Engineering	Soil Dynamics
		Structural Dynamics
6.	Electrical Engineering	Measurement & Instrumentation
		Power Apparatus & Electric Drives
		Power System Engineering
		System Engg. & Operations Research
7.	Electronics and Computer Engineering	Communication Systems
		Control and Guidance
		Computer Science and Engineering
		Information Technology
		RF and Microwave Engineering
		Semiconductor Devices & VLSI Tech.
8.	Hydrology	Hydrology
9.	Mechanical and Industrial Engineering	Machine Design Engineering
		Production & Industrial Systems Engg.
		Thermal Engineering
		Welding Engineering
10.	Metallurgical & Materials Engg.	Industrial Metallurgy
		Physical Metallurgy
11.	Paper Technology	Pulp & Paper Engineering
12.	Water Resources Development Training Centre	Hydroelectric System Engineering and Management
		Irrigation Water Management
		WRD (Civil)
		WRD (Mechanical)
* Diversification in Respective Courses of Geo-technical Engineering/Structural Engineering/Transportation Engineering		

<b>P.G. Diploma (For Sponsored Candidates)</b>		
<i>Sl. No.</i>	<i>Academic Department</i>	<i>Programmes</i>
1.	Hydrology	Hydrology
2.	Water Resources Development Training Centre	Hydroelectric System Engg. & Management
		Irrigation Water Management
		WRD (Civil)
		WRD (Mechanical)

**PG Programmes in Sciences, Management and Computer Applications**

<i>Sl. No.</i>	<i>Academic Department</i>	<i>Programmes</i>
<b>M.Tech.</b>		
1.	Earth Sciences	Applied Geology
		Applied Geophysics
2.	Physics	Solid State Electronic Materials
<b>M.Phil.</b>		
1.	Mathematics	Mathematics
2.	Physics	Instrumentation
<b>M.Sc.</b>		
1.	Biotechnology	Biotechnology
2.	Chemistry	Chemistry
3.	Earth Sciences	Applied Geology
4.	Mathematics	Applied Mathematics
		Industrial Maths & Informatics
5.	Physics	Physics
<b>M.B.A.</b>		
1.	Management Studies	Master of Business Administration (MBA)
<b>M.C.A.</b>		
1.	Interdisciplinary	Master of Computer Applications (MCA)



### Doctoral Programmes

Research programmes leading to the degree of Doctor of Philosophy (Ph.D.) are available in all academic departments of the Institute. While 199 new candidates were admitted to Ph.D. programme, a total of 516 candidates were working for their Ph.D. degree in the session 2003-2004. The Ph.D. thesis is evaluated by the supervisor(s) and by two external examiners, one Indian and the other from abroad. If the examiners recommend acceptance of the thesis, a viva voce examination of the candidate is arranged at Roorkee. The recommendations of the Board of Examiners are considered by the Senate, which approves the award of Ph.D. degree to the candidate.



## CONTINUING EDUCATION PROGRAMMES

### Centre for Continuing Education

The Centre for Continuing Education acts as a window to disseminate knowledge of latest technological developments. This Centre organizes short-term programmes to meet the growing needs of both private and public sector organizations. These high-tech training programmes, meant for young engineering graduates, equip them with newer technologies for better understanding of new business processes. These programmes may either be sponsored by the industry and government organizations or may be conducted by the Institute.

The Centre has conducted more than 1100 training programmes, for over 15,000 engineers, scientists and technocrats from India and abroad.

The Ministry of Human Resources Development (MHRD) has selected this Centre as one of the nodal agencies for preparing self study packages in various areas for working professionals. This project is now funded by the AICTE and the center has prepared 80 packages.

### Quality Improvement Programme Centre

The Government of India launched the Quality Improvement Programme (QIP) in 1971 to upgrade the expertise and capabilities of faculty members of degree level engineering institutions in the country.

The three principal activities of the Centre are: Providing opportunities to technical faculty members of recognised degree level engineering institutions to improve their qualifications (Masters and Ph.D. programmes); organizing short-term courses (STCs) for serving teachers; and curriculum development and any other activity to help improve the standards of technical education.



## SCHOLARSHIPS, PRIZES AND FINANCIAL ASSISTANCE

The Institute offers merit-cum-means scholarship to 25% of undergraduate students. Several other scholarships are announced from time to time. Financial help is provided to undergraduate students in the shape of Institute free studentship and scholarship to students belonging to the scheduled castes and scheduled tribes.

Students admitted to the 2-year M.Sc. degree in sciences are also awarded merit-cum-means scholarships. A number of scholarships, teaching/research assistantship schemes provide financial support to students of M. Tech. and Ph.D. programmes. Sponsored (full-time as well as part-time) self-financing foreign students and M.B.A. students are, however, not eligible for benefits of this scheme. Students are encouraged to earn while they learn.

Prizes and certificates are given to students on the basis of their performance in curricular, co-curricular and extra curricular activities.

## PROFESSORIAL CHAIRS

The Institute encourages companies, government and other organisations to establish Professorial Chairs in emerging and relevant areas of engineering, science, technology, humanities & social sciences including management studies. Brief particulars of the chairs currently occupied in the Institute are given below:

### Indian Railways Chairs

Two Professorial Chairs, one in the area of Bridge Engineering and the other in the area of Dynamics of Rail Vehicle Systems, have been instituted by Indian Railways. The scope of work includes R & D, dissemination of knowledge, human resource development, advice to Railways on specific projects related to the chair and coordination of activities with other railway organisations such as Research, Development and Standardization Organisation (RDSO).

Thrust areas in Bridge Engineering include health monitoring and rehabilitation of old bridges, modernization of design specification and codes, field investigations of bridge and studies related to scour etc.

Areas of activity in Dynamics of Rail Vehicle Systems include rail wheel interaction, track irregularities, hunting and lateral stability, vertical dynamics and ride behaviour, and performance and dynamics of over-head transmission lines.

### Pandit G.B. Pant Chair

During the birth centenary celebrations of Pandit G.B. Pant in 1987-88, the U.P. Government instituted a Professorial Chair, which has been named as “Pt. Govind Ballabh Pant Professorial Chair in Environmental Pollution Abatement”. The awardee of the Chair is placed in one of the academic departments of the Institute depending on the work plan of the Chair Professor.

## **MEMORANDA OF UNDERSTANDING/ COLLABORATIVE PROGRAMMES**

Indian Institute of Technology Roorkee encourages active involvement of faculty and students in collaborative programmes at the national and international level. In order to have close cooperation in teaching and research the Senate and the Board of Governors of IIT Roorkee have approved Memoranda of Understanding (MOUs) with:

### **Universities/Institutions abroad**

- Kungl Tekniska Hogskolan, (KTH), Stockholm, Sweden, for cooperation between research groups, researchers and Institute faculty and exchange visits for teaching and research.
- NORSAR, Norway, under the Indo-Norwegian Programme of Institutional Cooperation for carrying out a set of project activities in the area of earthquake engineering.
- UNDP, for pro-poor IT initiatives for e-connectivity at community information centres in the State of Uttaranchal in accordance with the existing MOU between Government of Uttaranchal and IIT Roorkee.
- Pokhara University, Nepal

### **Universities/Institutions in India**

- Department of Atomic Energy, Mumbai
- To establish the Institute Training Scheme of the Department of Atomic Energy (DAE) in various engineering disciplines and to make available additional sources of trained manpower for pursuing various activities of DAE at the national level.

### **State Government**

- Government of Uttaranchal, Dehradun: Strategic partnership to launch IT initiatives in the State in the fields of e-Governance, e-Education, Telemedicine, GIS and other within the ambit of IT applications and related fields.

### MOUs with the following are at an advanced stage of signing

- Central Building Research Institute Roorkee (CBRI)
- IBM India Ltd.
- CRRI, New Delhi
- Petrotech Society, ONGC
- Central Institute of Road Transport (CIRT), Pune
- University of Waterloo, Canada. This involves  
Academic development including academic programmes and student training.  
Research projects, preferably of a collaborative nature, involving scholars from University of Waterloo and Indian Institute of Technology Roorkee.  
Exchange of scholars for appropriate period of time.  
Development and exchange of publications, data and other teaching materials.

### INTERNATIONAL COOPERATION

The Institute has played a very important role in international cooperation, particularly for developing countries, in the field of engineering, applied sciences and social sciences including management education. It attracts a very large number of students from over 50 countries. Water Resources Development Training Centre (WRDTC) and the Department of Hydrology run special post graduate (PG) programmes for students of Afro Asian region. The Institute has awarded undergraduate degrees after 4 year of study to special groups of students from Tanzania, Ethiopia, Lesotho and Nepal.

Admission of foreign nationals to various Postgraduate and Research Programmes is made through the following channels:

- Indian Council of Cultural Research (ICCR)
- Technical Cooperation Service of Colombo Plan
- Indian Technology Research Services
- UNESCO
- World Meteorological Organisation

## FACULTY AND ALUMNI DISTINCTIONS

The faculty and alumni of the Institute have contributed handsomely in the development of the nation. They have also earned a good name for themselves worldwide. Some important distinctions, awards and honours bestowed on them are as given below:

Eight of our faculty members/alumni have been recipients of the prestigious Padma Vibhushan, Padma Bhushan and Padma Shree awards. Over the years, 9 have been honoured with the prestigious S.S. Bhatnagar award. More than 100 have been bestowed with top level appointments such as - Governor, Director General of Council for Scientific and Industrial Research (CSIR), Secretary Government of India (or equivalent), members of Union Public Service Commission, Chairman of All India Council for Technical Education (AICTE) ; Vice Chairman of (UGC), Chairman of Central Water Commission (CWC), Chairman of Railway Board, Directors of IITs/Vice-Chancellors/Directors of R&D Institutes. A large number of Alumni have been Chief Engineers & Head of various State & Central Government Organisations like State PWD, Central PWD, State Electrical Boards, Irrigation Departments, etc. Currently, both Indian Railways and Bharat Heavy Electricals Limited are headed by our alumni.

Four faculty members and alumni have been president of national academies and professional institutions, and more than 25 are fellows of National Academies like Indian National Science Academy (INSA) and Indian National Academy of Engineering (INAE). Five faculty members and Alumni of Indian Roads Congress and Indian Science Congress Association.

Institute is really fortunate to have a very distinguished personality in Prof. S.K. Joshi as a Chairman of Board of Governors. He is recipient of Padma Bhushan, which has been awarded to him on the Republic Day of 2003.

The latest addition to this glorious list is the award of Padma Bhushan to Professor S.K. Joshi, Chairman, Board of Governors, IIT Roorkee, on the nation's 54th Republic Day (2003). He has also been awarded the Asutosh Mookerjee Memorial Award by Indian Science Congress Association (2003). Professor Joshi has held several prestigious positions earlier like Director General of Council of Scientific and Industrial Research (CSIR); Chairman Recruitment and Assessment Centre, DRDO, Government of India; Director National Physical Laboratory (NPL), New Delhi; and Professor and Head of Department of Physics at the erstwhile University of Roorkee.

## ALUMNI ACTIVITIES

### Professor-in-Charge Alumni Affairs

The Office of Professor-in-Charge, Alumni Affairs has been created to establish a direct link between the alumni and the Institute. An Advisory Committee advises the Professor-in-Charge on its activities, which include:

- Promotion of network with the alumni
- Promoting the role of alumni in Institute's programmes and activities
- Receiving funds/donations for the Institute directly from the alumni
- Creating a platform for exchange of ideas and views among alumni
- Any other activity considered desirable for development of the institute and for creating goodwill among alumni.

### IITR Alumni Association

The alumni association of the institute called The IITR Alumni Association (formerly the Roorkee University Alumni Association) strives to promote and encourage members to take active interest in the activities and progress of the alma mater.

The Association publishes a quarterly newsletter called "Thomsonian" through which it disseminates news of the alma mater and the Alumni. The Association also has a website, "eroorkee.com", for easy and fast interaction amongst the alumni. At present the association has over fourteen thousand members and has 35 local chapters in India, USA and Kuwait.

### Thomson Alumni Consulting Technocrats (TACT) Limited

The alumni of this Institute have formed a Company, TACT, with the following objectives:

- (a) Make available the expertise of our alumni to the programmes of national development especially in the infrastructure sector.
- (b) Creative engagement of alumni, including retired alumni, in professional work on project basis.
- (c) Financial contribution to the Institute from the earnings of TACT.

There is a standing agreement between TACT & IIT Roorkee to utilize the technical expertise, laboratories, testing facilities and other infrastructure of the IIT, for the projects undertaken by TACT, as per the Consultancy Rules of the Institute.

## SPONSORED RESEARCH AND INDUSTRIAL CONSULTANCY

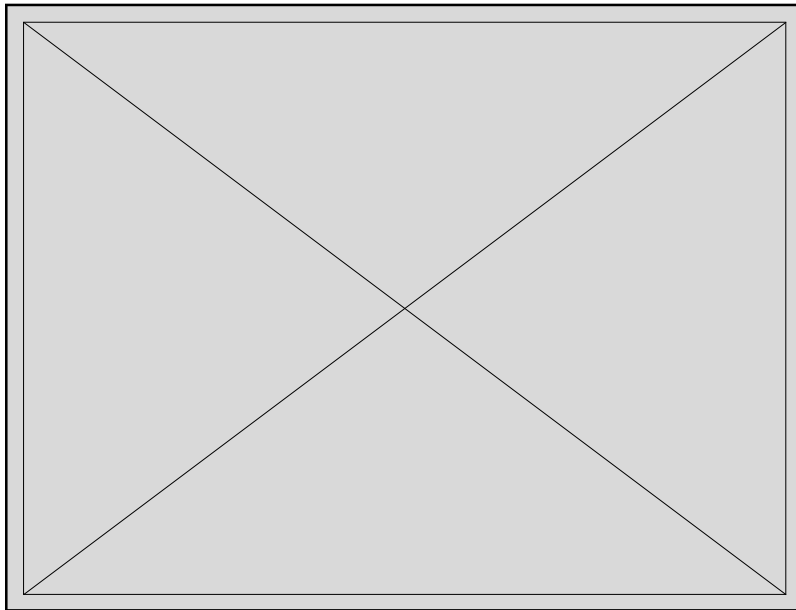
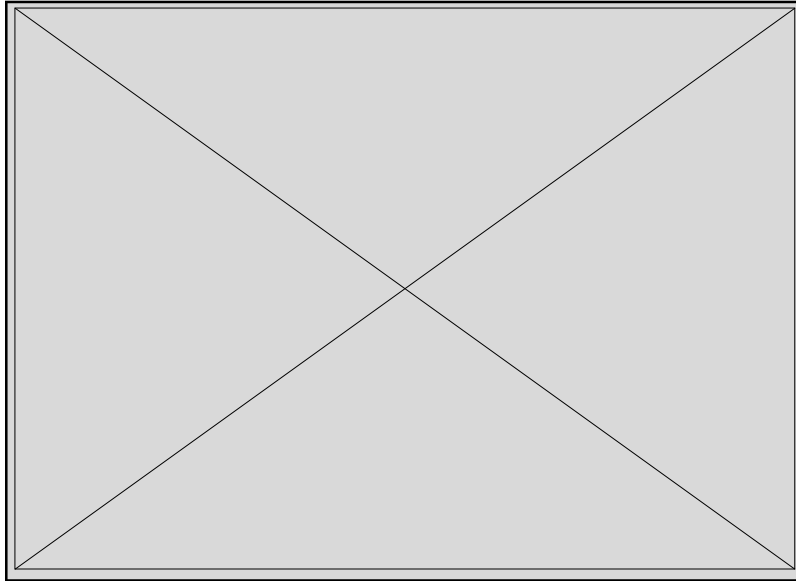
The Institute encourages faculty members to undertake research projects in frontier areas of engineering, science, technology and management. Major funding has been attracted from several Ministries of Government of India, like Science and Technology, Communication and Information Technology, Non-Conventional Energy Sources, Environment & Forest and Surface Transportation, besides Government agencies/institutions like, CSIR, ISRO, CWC, DRDO and DAE.

The Institute extends benefit of research and development to the country's industrial and economic growth in the form of consultancy services. This provides a first hand knowledge of current problems in the industry and is used in fine-tuning the curriculum to meet the emerging national challenges and needs. The Institute, through its faculty, can handle almost any type of problem/need of the industry. An illustrative list of the types of consultancy services currently being offered is given below:

- Analytical studies
- Cause-and-remedy studies
- Pre-feasibility and feasibility studies
- Detailed project reports
- Design of systems/components/processes
- Validation of designs/drawings
- Development of industrial products/systems/processes
- Development of systems software
- Development of application software for offline and online applications
- Testing of industrial products/samples
- Residual-life assessment of plants and equipments
- Calibration of sensors and instruments
- Development of laboratories
- Self/distance learning multi-media packages
- Quality Control & Application of New Technology for Delhi Urban Roads (cabinet of Delhi Govt. decision)

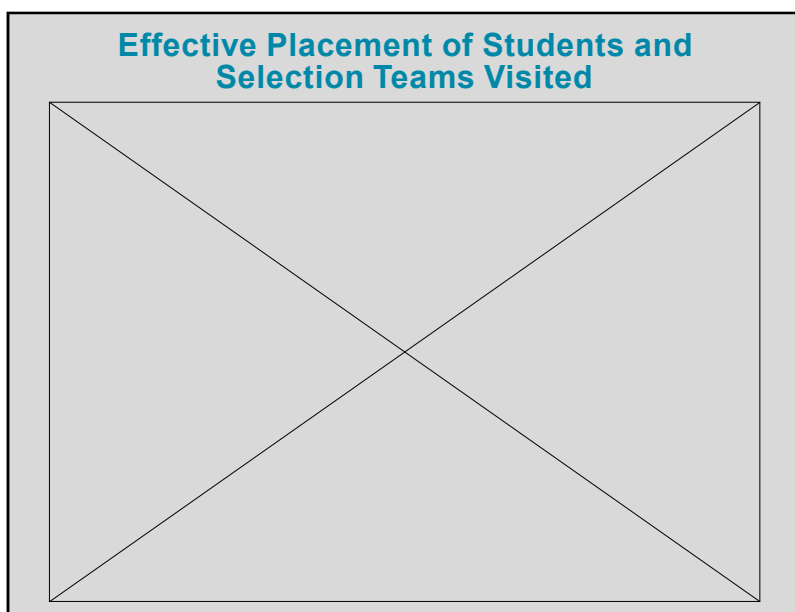
Administrative and accounting support to the faculty undertaking sponsored research and consultancy work is provided by a full-fledged office operating under Dean, Sponsored Research and Industrial Consultancy (SRIC).





## PLACEMENT SERVICES

The Institute provides placement opportunities to students through on-campus recruitment organized by Professor Placement, Training and Industrial Liaison under the umbrella of the Dean Sponsored Research and Industrial Consultancy (SRIC). The Institute has an excellent track record of placement of students in spite of the economic slowdown in the current year.



During the current academic year 110 companies have visited to recruit students from the campus. 626 students, consisting of 354 Undergraduate & 272 Postgraduate students, were offered an average salary package of Rs 3.15 lacs per annum, the highest being Rs. 8.50 lacs p.a. and another one of US \$96,000.



## SUPPORT SERVICES

The Institute's support services include libraries, computing, networking, instrumentation and medical services.

### **Libraries**

The Institute's Central Library is one of the biggest libraries for engineering and technology education in the country. This heritage library has manuscripts, books and journals of historical and archival importance, and also houses the latest science and engineering journals. In addition, each academic department has a reference library of moderate size.

### **Institute Computer Centre (ICC)**

The Institute Computer Centre has TATA ELXI and PARAM 10000 Super Computers, SG Workstation, along with a large number of PCs, printers and peripherals etc.

### **Information Super-Highway Centre (ISC)**

The Centre provides Internet and Intranet services to staff and students with a bandwidth of 2 Mbps from BSNL and 512 Kbps SCPC from ERNET.

### **Institute Instrumentation Centre (IIC)**

The Institute Instrumentation centre has a wide range of analytical facilities for students, researchers and faculties of the Institute. The analytical facilities include sophisticated analytical instruments such as XRD, Electron Microprobe Analyzer (EPMA), Induced Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Thermal Analyzer System (DTA-DSC) TIMS.

### **Medical Services**

The Institute has a well-equipped 60-bed hospital on Roorkee campus. The hospital provides medical services to the Institute staff, their dependents and students. Some of the facilities available are x-ray, physiotherapy, diathermy, ECG, pathological testing, blood analyzer and ultrasound. The Saharanpur campus has another hospital of moderate size to serve the students, staff and families residing there.

### **Mahila Work and Welfare Centre**

Mahila Work and Welfare Centre is a self-supporting organization and trains stitching, embroidery and knitting courses to the needy, poor and deserving girls, so that they can be self employed and earn their livelihood.

Many new items like Folding Bags, Sofa Back Cover, Baby Towels with hankies and many Crochet items were added in the Gift Section for sale.

Masala items like Garam Masala, Mirch, Haldi, Dhania Powder, Chat Masala, Sambhar Masala and many kinds of Achars were prepared for sale for the IIT employees and outsiders also.

In the months of May and June 2003 the Centre conducted Dabca course in which 5 girls completed the course.

Fancy dresses prepared by the Centre are given on rental to students for cultural functions.

### **Roorkee School for the Deaf**

Roorkee School for the Deaf, located on IIT Roorkee campus, is managed by its faculty and experts. This school uses ultra modern and scientific equipment with multi mode approach to teach deaf children. Need based curricula is supplemented by vocational training in various fields. R&D activities in the area of deafness and deaf education are also undertaken by the students and faculty of IIT Roorkee. Being a community based model, the school is mainly run through donations received from organizations and individuals.

### **Science and Technology Entrepreneurship Park**

Science and Technology Entrepreneurship Park (STEP) was established as a registered society in 1987 by the Department of Science and Technology (DST), Government of India, to undertake R&D activities in frontal areas of industrial and infrastructure sector.

STEP is engaged in entrepreneurship development, industrial consultancy technology transfer, manpower training, product development, etc. STEP draws heavily on the expertise and facilities available at IIT Roorkee and with its alumni. The special activities of the STEP include establishment of new venture, diversification of old units and revival of sick industries.

STEP Roorkee has organized a number of Entrepreneurship Awareness Camps, Entrepreneurship Development Programmes. And has also been involved in the design of several suspension bridges, Air Pollution control devices and EIA studies of several industrial units. STEP has prepared digitized thematic maps of roads, bridges, railway tracks and nallas for National Informatic Centre, Government of India. It has recently started a Technology Incubator at STEP.

## FACULTY AND AREAS OF SPECIALIZATION ROORKEE CAMPUS

<i>Name and e-mail</i>	<i>Phone (O/R)</i>	<i>BSNL (Resi)</i>	<i>Broad Areas of Specialization</i>
<b>ARCHITECTURE &amp; PLANNING</b>			
<b>Ahuja Rita (Ms)</b> angelfap@iitr.ernet.in	285129 285050	274068	Building Science, Architecture, Energy Conservation
<b>Chani P.S.</b> pschani@yahoo.com	285254 285225		Architecture, Energy and Cost Estimation
<b>Devadas V.</b> valanfap@iitr.ernet.in	285298 285155		Planning
<b>Gupta Ila (Ms)</b> ilafap@iitr.ernet.in	285381 285038	271225	Arts/Applied Art
<b>Jain R.K.</b> rajapfap@iitr.ernet.in	285706 285056	275778	Planning
<b>Joshi A.</b> joshiashu@yahoo.com	285694		Urban Planning, Architecture
<b>Kulkarni S.Y.</b> plngsfap@iitr.ernet.in	285705 285178	275265	Architecture
<b>Mukherjee M.</b> mahuafap@iitr.ernet.in	285334 285036		Architecture, Building Science, Sustainable Habitat
<b>Najamuddin</b> archdfap@iitr.ernet.in	285318 285359	273169	Architecture, Planning
<b>Patel P.K.</b> patelfme@iitr.ernet.in	285379 285149		Building Science, Architecture, Planning, Housing Building
<b>Pushplata (Ms)</b> pushpfap@iitr.ernet.in	285143	271457	Urban Design, Environmental Planning & Design, Hill Settlements
<b>Rajesh Chandra</b> khushfap@iitr.ernet.in	285380	275648 261044	Planning & Design of Bldgs, Housing Transportation & Rural Urban Planning
<b>Shankar R.</b> shardfap@iitr.ernet.in	285839 285138	270906	Planning, Settlement Ecology, Landscape Arch. Environ. Planning
<b>Singh Nalini (Ms)</b> nalinisinh@ rediffmail.com	285137	274256	Planning
<b>BIOTECHNOLOGY</b>			
<b>Barthwal Ritu (Ms)</b> ritubfbs@iitr.ernet.in	285807 285361	270024	Biophysics

Prefix STD Code 01332 to these telephone numbers to call from outside Roorkee

<i>Name and e-mail</i>	<i>Phone (O/R)</i>	<i>BSNL (Resi)</i>	<i>Broad Areas of Specialization</i>
<b>Dhaliwal H.S.</b> hsdhafbs@iitr.ernet.in	285259 285332		Plant Biotechnology
<b>Karhikeyan S.</b>			
<b>Khan M.A.</b> mkhanfbs@iitr.ernet.in	285726 285398		Environmental Microbiology
<b>Pereira B.M.J.</b> benmjfbs@iitr.ernet.in	285790 285118	272804	Animal Physiology, Reproductive Biology
<b>Prasad Ramasare</b> rapdyfbs@iitr.ernet.in	285791 285282		Cell and Molecular Biology
<b>Pruthi Vikas</b> vikasfbs@iitr.ernet.in	285530 285110		Molecular Microbiology
<b>Randhawa G.S.</b> sharnfbs@iitr.ernet.in	285808 285024	273644	Genetics
<b>Roy Partha</b> paroyfbs@iitr.ernet.in	285686 285291		Molecular Endocrinology, Animal Biotechnology
<b>Sharma A.K.</b> aksbsfbs@iitr.ernet.in	285657 285284		Biochemistry & Biophysics
<b>Singh R.P.</b> rpsbsfbs@iitr.ernet.in	285792 285114	271664	Microbial Technology, Molecular Biology
<b>Subramanian K.</b> skarthik14@hotmail.com	285591 285115		Biophysics
<b>CHEMICAL ENGINEERING</b>			
<b>Agarwal C.P.</b> cpaurfch@iitr.ernet.in	285712 285721	274034	Heat Transfer, Thermodynamics
<b>Agarwal V.K.</b> vijayfch@iitr.ernet.in	285718 285322	270386	Process Modeling & Simulation, CAD, Process Control & Heat Transfer
<b>Balomajumder C.</b> chandfch@iitr.ernet.in	285321 285059	270492	Pollution Abatement, Bio-Chemical Engineering, Instrumentation
<b>Bhandari Nidihi (Ms.)</b> nidhifch@iitr.ernet.in	285669 285493	270046	Predictive Modeling and Control, Design and Simulation and Modeling
<b>Bhargava Ravindra</b> ravibfch@iitr.ernet.in	285382 285150	274298	Simulation, Optimization and CAD
<b>Bhattacharya S.D.</b> sdbiofch@iitr.ernet.in	285708 285048	271762	Multiphase Flow, Heat Transfer, Pollution Abatement Engg.
<b>Chand Shri</b> schanfch@iitr.ernet.in	285383 285109	275572	Catalysis, Pollution Abatement, Mass Transfer

Prefix STD Code 01332 to these telephone numbers to call from outside Roorkee

<i>Name and e-mail</i>	<i>Phone (O/R)</i>	<i>BSNL (Resi)</i>	<i>Broad Areas of Specialization</i>
<b>Gupta S.C.</b> satisfch@iitr.ernet.in	285709 285362	270824	Heat Transfer, Energy Engineering, Process Integration, Modelling
<b>Kumar Surendera</b> skumar@iitr.ernet.in	285714 285209	277461	Modeling & Control, Separation Processes, Reaction Engg.
<b>Mall Indra Deo</b> invigfch@iitr.ernet.in	285319 285106	270891	Pollution Abatement Engineering, Chemical Technology
<b>Mishra I.M.</b> imishfch@iitr.ernet.in	285715 285720	276534	Transport Phenomena, Biochem and Pollution Abatement, Biomass Energy
<b>Mohanty Bikash</b> bmohantyfch@iitr.ernet.in	285710 285305	275649	Heat Transfer, Process Integration, Simulation, Process Int. & Control
<b>Prasad Basheshwer</b> bashefch@iitr.ernet.in	285323 285169	274155	Energy Engg., Pollution Abatement & Biochemical Engg.
<b>Shashi (Ms)</b> sashifch@iitr.ernet.in	285672 285209	277461	Modeling and Simulation, Computer Aided Design
<b>Sinha S.N.</b> sudhifch@iitr.ernet.in	285384 285280	274098	Simulation & Optimization, Process Control and Membrane Separation
<b>CHEMISTRY</b>			
<b>Anil Kumar</b> anilkfch@iitr.ernet.in	285799 285180	275478	Kinetics & Photochemistry, Nanomaterials
<b>Bhattacharjee G.</b> wordgfch@iitr.ernet.in	285793 285145	275598	Organic Rea Mech.
<b>Bhusan Ravi</b> rbushfch@iitr.ernet.in	285795 285089	271162	Proteins, Liquid Chromatogr. Organic
<b>Garg Amar Nath</b> agargyfch@iitr.ernet.in	285324 285810		Radio Chemistry Mossbauer Spectroscopy, Radiation Chemistry
<b>Goyal R.N.</b> rngcyfch@iitr.ernet.in	285794 285029	274454	Organic Electro Chemistry
<b>Gupta Bina (Ms)</b> bvgcyfch@iitr.ernet.in	285326	277838 272537	Solvent Extraction
<b>Gupta K.C.</b> kcgptfch@iitr.ernet.in	285325 285279		Physical, Polymer Chemistry
<b>Gupta V.K.</b> vinodfch@iitr.ernet.in	285801 285043	274458	Chemical Sensors, Waste-water Treatment, Adsorption
<b>Jain A.K.</b> akjainfch@iitr.ernet.in	285809 285378	270532	Physical Organic, Analytical Chemistry
<b>Kamaluddin</b> kamalfch@iitr.ernet.in	285796 285146	274473	Physical-Organic Chemistry, Origin of Life

Prefix STD Code 01332 to these telephone numbers to call from outside Roorkee

<i>Name and e-mail</i>	<i>Phone (O/R)</i>	<i>BSNL (Resi)</i>	<i>Broad Areas of Specialization</i>
<b>Maurya M.R.</b> rkmanfey@iitr.ernet.in	285327 285113	277624	Coordination Chemistry, Bio-inorganic Chemistry, Catalyst
<b>Nath Mala (Ms)</b> malanfey@iitr.ernet.in	285797 285107	270602	Inorganic, Organomet Bio Inorganic Chemistry
<b>Prasad Rajendra</b> rajenfey@iitr.ernet.in	285328 285208		Coordination Chemistry of Macrocycles/Polyridines
<b>Singh A.K.</b> akseyfey@iitr.ernet.in	285798 285077	275064	Macrocyclic Chemistry
<b>Singh U.P.</b> udaipfey@iitr.ernet.in	285329 285202	271889	Bio Inorganic, Coordination Chemistry
<b>Sondhi S.M.</b> sondifey@iitr.ernet.in	285811 285188	279371	Synthetic Hetrocyclic Chemistry
<b>Thankachan P.P.</b> ppthnfey@iitr.ernet.in	285331 285316	276915	Theoretical Chemistry
<b>CIVIL ENGINEERING</b>			
<b>Ahuja A.K.</b> ahujafce@iitr.ernet.in	285476 285050	274068	Structural Engineering
<b>Arora M.K.</b> manojfce@iitr.ernet.in	285417 285120	276011	Remote Sensing
<b>Asawa G.L.</b> asawafce@iitr.ernet.in	285434 285409	274128	Hydraulic Engineering
<b>Bhandari N.M.</b> nmbcefce@iitr.ernet.in	285439 285493	270046	Structural Engineering
<b>Bhargava Pradeep</b> bhpdpfce@iitr.ernet.in	285495 263653		Structural Engineering
<b>Bhargava Renu (Ms)</b> renbhfce@iitr.ernet.in	285458 285046	274346	Environmental Engineering
<b>Chandra Satish</b> satisfce@iitr.ernet.in	285468 285190		Transportation Engineering
<b>Chauhan M.P.S.</b> chauhanmps60@hotmail.com	284247	271965	Transportation Engineering
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<b>Gairola Ajay</b> garryfey@iitr.ernet.in	285460 285060	273445	Hydraulic & Wind Engineering
<b>Garg P.K.</b> gargpfce@iitr.ernet.in	285462 285026	275060	Geomatics Engineering

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<b>Ghosh J.K.</b> gjkumfce@iitr.ernet.in	285429 285456		Remot Sensing, Satellite Geodesy, Global Positioning System (GPS)
<b>Ghosh S.K.</b> scnagosh@ data_infosys.net	285463 285067	275329	Remot Sensing, GIS & its Applications
<b>Gupta V.K.</b> vkgsufce@iitr.ernet.in	285441 285491	270711	Structural Engineering
<b>Jain Ashok K.</b> ashokfce@iitr.ernet.in	on leave		Structural Engineering (On leave)
<b>Jain Kamal</b> kjainfce@iitr.ernet.in	285465 285027	274617	Geomatics Engineering, Analytical and Digital Photogrammetry
<b>Jain P.C.</b> punamfce@iitr.ernet.in	285433 285472	271589	Structural Engineering
<b>Jain S.S.</b> ssjanfce@iitr.ernet.in	285435 285022	275038	Transportation Engineering
<b>Kashyap Deepak</b> dkashfce@iitr.ernet.in	285453 285025	274491	Ground Water Engineering
<b>Kaushik S.K.</b> eskayfce@iitr.ernet.in	285424 285482		Structural Engineering
<b>Kothiyari U.C.</b> umeshfce@iitr.ernet.in	285496 285119	274286	Hydraulic Engineering
<b>Kumar Krishen</b> manglfce@iitr.ernet.in	285426 285486	272774	Structural Engineering, Earthquake Engineering
<b>Kumar Pradeep</b> pkumafce@iitr.ernet.in	285446 285021	274009	Environmental Engineering
<b>Kumar Pramod</b> prmdffce@iitr.ernet.in	285692 285168		Environmental Engineering
<b>Kumar Praveen</b> pkaerfce@iitr.ernet.in	285470 285616		Transportation Engineering
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<b>Mehndiratta H.C.</b> hcmrtfce@iitr.ernet.in	285432 285410		Transportation Engineering
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<b>Ojha C.S.P.</b> cojhaf@iitr.ernet.in	285494 285285		Hydraulic Engineering
<b>Prasad Jagdish</b> jp746f@iitr.ernet.in	285464 285104		Structural Engineering
<b>Parida M.</b> mprdaf@iitr.ernet.in	285448 285443	271624	Transportation Engineering
<b>Prakash Vipul</b> vipulf@iitr.ernet.in	285538 285532	279043	Performance Based Engineering Structural Dynamics
<b>Prasad K.S. Hari</b> suryaf@iitr.ernet.in	285405 285053		Hydraulic Engineering
<b>Puri Narinder</b> purinf@iitr.ernet.in	285454 285485	273399	Structures, Vedic Maths & Yoga
<b>Ramasamy, G.</b> gramsf@iitr.ernet.in	285428 285471		Geotechnical Engineering
<b>Ranga Raju K.G.</b> kgrarf@iitr.ernet.in	285408 285455	275569	Hydraulic Engineering
<b>Samadhiya N.K.</b> nksamf@iitr.ernet.in	285467 285052	275133	Geotechnical Engineering
<b>Singh G.R.</b>	285742 285369		
<b>Singh K.K.</b> kks45f@iitr.ernet.in	285445 285503	274468	Structural Engineering
<b>Singh Mahendra</b> singhf@iitr.ernet.in	285651 285006	278834	Geotechnical Engineering
<b>Srivastava A.M.C.</b> anandf@iitr.ernet.in	285447 285480	271519	Advanced Surveying and Photogrammetry (On leave)
<b>Upadhyay Akhil</b> akhilf@iitr.ernet.in	285716 285159		Structural Engineering
<b>Viladkar M.N.</b> sumanf@iitr.ernet.in	285452 285045		Geotechnical Engineering
<b>Zulfequar Ahmad</b> zulfif@iitr.ernet.in	285423 285469		Hydraulic Engineering
<b>EARTHQUAKE ENGINEERING</b>			
<b>Agarwal Pankaj</b> panagf@iitr.ernet.in	285317	260723	Experimental Testing of Structures, Instrumentation of Buildings and Finite Element Analysis of Dams

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<b>Arya A.S.</b> asarya@iitr.ernet.in	285625	272631	Earthquake Engineering, Structural Engineering
<b>Basu Susanta</b> sbasufeq@iitr.ernet.in	285521 285506	276802	Instrumentation, Signal Processing, Risk Analysis
<b>Das J.</b>	285264 285371	277160	
<b>Dubey R.N.</b> dubeyfeq@iitr.ernet.in	285537 285057	275672	Structural Dynamics
<b>Gupta S.C.</b>	285592 285366	270406	
<b>Joshi V.H.</b> joshifeq@iitr.ernet.in	285526 285510		Soil Dynamics, Seismic Ground Motion & Wave Propagation
<b>Kumar Ashok</b> akmeqfeq@iitr.ernet.in	285527		Instrumentation, Digital Signal Processing, Strong Motion Studies
<b>Kumar Ashwani</b> ashwnfeq@iitr.ernet.in	285529		Seismology and Seismo-tectonics, Micro Earthquake Studies
<b>Mukerjee Shyamal</b> shyamfeq@iitr.ernet.in	285528 285273	275643	Liquefaction, Dynamic Soil Parameters
<b>Narayan J.P.</b> jaypnfeq@iitr.ernet.in	285127 285058		Simulation of Seismic Wave Propagation
<b>Pal Kirat</b> kiratfeq@iitr.ernet.in	285539 285281	274174	Instrumentation, Electronic Circuits
<b>Pandey Ashok D.</b> adpanfeq@iitr.ernet.in	285531 285041	270172	Structural Dynamics, Finite Element, Analysis, Random Vibration, Offshore Structures, ANN
<b>Paul Dilip Kumar</b> dpaulfeq@iitr.ernet.in	285522 285507	271007	Soil Dynamics, Structural Dynamics
<b>Prajapati G.I.</b> giprafeq@iitr.ernet.in	285523 285508	270609	Structural Dynamics
<b>Shanker Daya</b> dayasfeq@iitr.ernet.in	285128 285062		Seismology, Seismotectonics, Earthquake Hazard and Prediction
<b>Sharma M.L.</b> mukutfeq@iitr.ernet.in	285536 285055	275062	Seismology, Seismotectonics, Signal Processing and Hazard Analysis
<b>Shrikhande Manish</b> mshrifeq@iitr.ernet.in	285437 285605		Structural Dynamics, Strong Motion Studies, Random Vibration and Reliability
<b>Singh Yogendra</b> yogenfeq@iitr.ernet.in	285534 285042		Structural Dynamics

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<i>Name and e-mail</i>	<i>Phone (O/R)</i>	<i>BSNL (Resi)</i>	<i>Broad Areas of Specialization</i>
<b>Singhal N.C.</b> ncsglfes@iitr.ernet.in	285533 285023	276570	Structural Dynamics
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<b>Wason H.R.</b> wasonfes@iitr.ernet.in	285556 285569	273727	Seismology, Seismotectonics, Earthquake Hazard Analysis
<b>EARTH SCIENCES</b>			
<b>Anbalagan R.</b> ranbafes@iitr.ernet.in	285562 285054		Engineering Geology, Water Resources, Slope Stability Studies
<b>Awasthi A.K.</b> prachfes@iitr.ernet.in	285542 285244	271518	Petroleum Geology, Applied Geology
<b>Bajpai Sunil</b> sunilfes@iitr.ernet.in	285079 285385	276822	Biostratigraphy, Vertebrate Paleontology
<b>Chakrapani G.J.</b> gicurfes@iitr.ernet.in	285080 285548	276069	Environmental Geochemistry, Geohydrology
<b>Gupta P.K.</b> pkgptfes@iitr.ernet.in	285552 285519	275528	Geophysical Modeling, Data Inversion
<b>Gupta R.P.</b> rpgesfes@iitr.ernet.in	285541 285567	270016	Remote Sensing
<b>Israil Mohammad</b> mohdfes@iitr.ernet.in	285078 285205		Geoelectromagnetism, Modeling, Extraction Geophy.
<b>Jain A.K.</b> himalfes@iitr.ernet.in	285540 285599	273095	Structural Geology, Tectonics, Himalayan Geology
<b>Krishnamurthi R.</b> krishfes@iitr.ernet.in	285416		Economic Geology, Ore Genesis, Fluid Inclusions & Gold Mineralization
<b>Mukhopadhyay D.K.</b> dilipfes@iitr.ernet.in	285564 285578	275149	Structural Geology
<b>Mukhopadhyay S. (Ms)</b> sagarfes@iitr.ernet.in	285563 285578	275149	Seismology, Seismic Hazard Microzonation
<b>Niwas Sri</b> srspnfes@iitr.ernet.in	285570 285579	275739	Geoelectromagnetism, Inversion, Geohydrology
<b>Pachauri A.K.</b> ashokfes@iitr.ernet.in	285566 285568	270173	Environmental Geosciences, Landslides
<b>Parkash Barham</b> bparkfes@iitr.ernet.in	285543 285044		Sedimentology, Geomorphology, Quaternary Geology

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<b>Sastry R.G.S.</b> rgsesfes@iitr.ernet.in	285543 285344	275048	Exploration Geophysics, Geophysical Inversion
<b>Sen A.K.</b> senakfes@iitr.ernet.in	285557 285349	275328	Mine Exploration, Economic Geology, Ore Geology
<b>Singh S.</b> sandpfes@iitr.ernet.in	285559 285086	275043	Tectonics, Igneous Petrology, Geochronology
<b>Singh V.N.</b> vnsgfhfes@iitr.ernet.in	285546 285595		Seismology
<b>Sinvhal H.</b> harshfes@iitr.ernet.in	285550 285600	275570	Geodynamics, Exploration, Business Communication, Seismotectonics
<b>Srivastava D.C.</b> dpkesfes@iitr.ernet.in	285558 285112	275112	Structural Geology
<b>Srivastava S.S.</b> microfes@iitr.ernet.in	285554 285172	275542	Micropalaeontology, Environmental Science
<b>Upadhyay S.K.</b> skuespes@iitr.ernet.in	285547 285365		Exploration Geophysics, Seismic Hazard, Tomography
<b>ELECTRICAL ENGINEERING</b>			
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<b>Anand R.S.</b> anandfee@isc.iitr.ernet.in	285590 285330	272952	Ultrasonic Imaging, DSP, Bio-medical Instrumentation
<b>Das Biswarup</b> biswafee@isc.iitr.ernet.in	285628 285629		Power Distribution Automation, FACTS, Power System Harmonics
<b>Dewal M.L.</b> mldewal@vsnl.com	285636 285607	277093	Measurement and Instrumentation, HVDC
<b>Fernandez E.</b> eugfegee@isc.iitr.ernet.in	285075 285402	277014	Energy Planning & Rural System
<b>Gupta Bharat</b> bgptafee@isc.iitr.ernet.in	285105 285061	276886	Power System Engineering
<b>Gupta H.O.</b> harifee@isc.iitr.ernet.in	285576 285294	277067	System Engineering, Power System, Transformer
<b>Gupta Indra (Ms)</b> indrafee@isc.iitr.ernet.in	285395 285626	273069	System Engineering & Operations Research

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<b>Gupta S.P.</b> spgfee@isc.iitr.ernet.in	285597 285038	271225	Power Electronics Condition Monitoring of Electric Drives
<b>Jain M.P.</b> mpjirfpl@isc.iitr.ernet.in	285260 285376	276511	Power System Engineering
<b>Kumar Surendra</b> kumarfee@isc.iitr.ernet.in	285598 285274	270982	System Engineering & Operations Research
<b>Kumar Vinod</b> vinodfee@isc.iitr.ernet.in	285593 285572	274172	DSP, Medical Instrumentation
<b>Maheshwari R.P.</b> rudrafee@isc.iitr.ernet.in	285596 285116	272611	Digital Instrumentation & Control, Power System Protection, Digital Protective Relays and Testing
<b>Mishra R.N.</b> rnmisfee@isc.iitr.ernet.in	285584 285136	273030	Measurement & Instrumentation
<b>Mukherjee Shaktidev</b> shmeefee@isc.iitr.ernet.in	285585 285161	275096	Measurement & Instrumentation
<b>Padhy N.P.</b> nppeefee@isc.iitr.ernet.in	285587 285406		Power System Engineering, FACT and AI Applications
<b>Pant A.K.</b> anantfee@isc.iitr.ernet.in	285586 285230	273681	System Engineering & Operations Research
<b>Pant Vinay</b> vpantfee@isc.iitr.ernet.in	285396 285064	274143	Power System Engineering
<b>Patel Ramnarayan</b> ramnpfee@isc.iitr.ernet.in	285518 285354		Power System Engineering
<b>Pillai G.N.</b>			Control System, Power System Engineering
<b>Prasad Rajendra</b> rpdeefee@isc.iitr.ernet.in	285068 285623	278425	System Engineering & Operations Research
<b>Sharma Ambalika (Ms)</b> asharfee@isc.iitr.ernet.in	285397 285401	279284	Measurement & Instrumentation
<b>Sharma J.D.</b> jaydsfee@isc.iitr.ernet.in	285589 285360	277722	Power System Operation, Planning and Control, AI Applications
<b>Sharma R.P.</b>			
<b>Singh G.K.</b> gksngfee@isc.iitr.ernet.in	285070 285139	277861	Power Apparatus & Electric Drives
<b>Singh S.P</b> spseefee@isc.iitr.ernet.in	285827 285825	275423	Power Apparatus & Electric Drives

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<b>Srivastava S.P.</b> setyafee@isc.iitr.ernet.in	285583 285076		Power Apparatus & Electric Drives
<b>Vasantha M.K.</b> krisnfee@isc.iitr.ernet.in	285594 285037		System Engineering & Operation Research
<b>Verma H.K.</b> hkvfee@isc.iitr.ernet.in	285588 285571	270882	Intelligent Instrumentation, Biomedical Instrumentation, Power System Protection, Digital Relays
<b>ELECTRONICS &amp; COMPUTER ENGINEERING</b>			
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<b>Arun Kumar</b> arunkfuc@iitr.ernet.in	285656 285095	275136	Communication Systems
<b>Chakravorty S.</b> eandc@iitr.ernet.in	285663 285276	275834	Communication Systems
<b>De P.P.</b> dde12fec@iitr.ernet.in	285355 284129		Signal Processing and Communication Systems
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<b>Gupta Inderjit</b> inderfec@iitr.ernet.in	285662 285160	273605 274390	Biomedical Electronics, Control
<b>Gupta Sumit</b> sumitfec@iitr.ernet.in	285728 285514		Computer Science & Engineering
<b>Joshi R.C.</b> rcjosfec@iitr.ernet.in	285650 285356	270040	Computer Science & Engineering
<b>Kartikeyan M.V.</b> kartkfec@iitr.ernet.in	285727 285513		RF & Microwave Engineering
<b>Mehra D.K.</b> dkmecfec@iitr.ernet.in	285644 285001	270490	Communication Systems
<b>Mishra Manoj</b> manojfec@iitr.ernet.in	285642 285418		Distributed Computing, Performance Modeling
<b>Mitra R.</b> rmtrafec@iitr.ernet.in	285645 285002	274455	Control Systems
<b>Mittal Ankush</b> ankumfec@iitr.ernet.in	285713 285194	274455	Computer Science & Engineering

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<b>Padam Kumar</b> padamfec@iitr.ernet.in	285658	273507	Computer Science & Engineering
<b>Sagar Vidhya</b> eandc@iitr.ernet.in	285652 285415	276432	Computer Science & Engineering
<b>Sarje Anil K.</b> sarjefec@iitr.ernet.in	285654 285204	270298	Computer Science & Engineering
<b>Sarkar Sankar</b> fermifec@iitr.ernet.in	285660 285007	275030	Semiconductor Devices & VLSI Technology
<b>Saxena A.K.</b> kumarfec@iitr.ernet.in	285653 285004	277162	Semiconductor Devices & VLSI Technology
<b>Singh Dharmendra</b> dharmfec@iitr.ernet.in	285695 285351		RF & Microwave Engineering
<b>Singh Kuldip</b> kds56fec@iitr.ernet.in	285816 285357	279503	Computer Science and Engineering
<b>Sinha Bharoti (Ms)</b> bseacfec@iitr.ernet.in	285664 285008	270780	Microwaves & Radar
<b>Sinha S.N.</b> snsecfec@iitr.ernet.in	285661 285008	270780	RF and Microwave Engineering
<b>Varma S.K.</b> skvecfec@iitr.ernet.in	285647 285003	271087	Communication Systems
<b>Vijay Kumar</b> vijecfec@iitr.ernet.in	285609 285195	270617	Control & Guidance
<b>HUMANITIES &amp; SOCIAL SCIENCES</b>			
<b>Gaur Rashmi (Ms)</b> rgaurfhs@iitr.ernet.in	285336 285641	276903	Professional Communication, Modern Fiction, Feminist Studies
<b>Jha Pashupati</b> pashufhs@iitr.ernet.in	285306 285419		Modern Literature, Technical Communication
<b>Kapoor Asha (Ms)</b> ashakfhs@iitr.ernet.in	285386 285399	274338	Indian Rhetorics, Hindi Language and Literature
<b>Kulshrestha P.</b>			
<b>Kumar Nagendra</b> nagenfhs@iitr.ernet.in	285711 285719		Modern Literature, Contemporary Fiction and Critical Theories
<b>Nauriyal D.K.</b> dknarfhs@iitr.ernet.in	285387 285258	270502	Economics (Human Capital, Demography)

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<b>Rastogi Renu (Ms)</b> renurfhs@iitr.ernet.in	285388 285040	271553	Organisation Behaviour, Counseling and Women Studies
<b>Sabiruddin</b> sabirfhs@iitr.ernet.in	285304 285367	274726	Soviet Literature, Literary Translation
<b>Sinha B. (Ms)</b>			
<b>Singh S.P.</b> singhfhs@iitr.ernet.in	285337 285442	276068	Economics (Rural Dev., Labour Eco. & Ag. Eco.)
<b>HYDROLOGY</b>			
<b>Arya D.S.</b> dsaryfhy@iitr.ernet.in	285370 285473	279570	Hydro-informatics
<b>Goel N.K.</b> goelnfhy@iitr.ernet.in	285814 285185	274770	Stochastic Hydrology
<b>Joshi H.</b> joshifhy@iitr.ernet.in	285390 285403	270625	Environmental Hydrology
<b>Mathur B.S.</b> bsmatfhy@iitr.ernet.in	285813	271564	Surface Water Hydrology
<b>Nautiyal M.D.</b> mdnautiyal@yahoo.com	285175		Hydrogeology, Ground Water Hydrology
<b>Perumal Muthiah</b> p_erumal@yahoo.com	285817 285011		Surface Water Hydrology
<b>Singh Ranvir</b> rsingfhy@iitr.ernet.in	285237 285211		Watershed Management, Water Resources System Engineering
<b>Singhal D.C.</b> dcshyfhy@iitr.ernet.in	285391 285206	274309	Geohydrology, Groundwater, Geophysics, Water Quality
<b>Srivastava D.K.</b> dkshyfhy@iitr.ernet.in	285398 285156	277155	Water Resources System, Surface Water Hydrology
<b>MANAGEMENT STUDIES</b>			
<b>Nangia V.K.</b> vinaynangia@hotmail.com	285617 285615	279784	General Management, Finance
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<b>Rahman Zillur</b> yusuffdm@iitr.ernet.in	285081	265848	International Business, MIS, Marketing
<b>Rangnekar S.</b> srngnfdm@iitr.ernet.in	285422 285478		HRM, Organizational Behavior, Knowledge Management
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<b>Agrawal P. N.</b> pnappfma@iitr.ernet.in	285033 285267	276934	Approximation Theory, Complex Analysis, Numerical Methods
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<b>Bhargava Raj R. (Ms)</b> rajrbfma@iitr.ernet.in	285768 285823	274439	Elasticity, Fracture Mechanics Theory, Numerical Analysis
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<b>Deep Kusum (Ms)</b> kusumfma@iitr.ernet.in	285339 285342	275334	Numerical Optimization, Operations Research
<b>Gakkhar Sunita (Ms)</b> sungkfma@iitr.ernet.in	285171 285693	279726	Bio-Mathematics, Computer Applications
<b>Gulati T.R.</b> trgorfma@iitr.ernet.in	285338		Operation Research
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<b>Gupta U.S.</b> usgptfma@iitr.ernet.in	285147 285174	274434	Elasticity, Vibration, Numerical Methods
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<b>MECHANICAL &amp; INDUSTRIAL ENGINEERING</b>			
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<b>METALLURGICAL &amp; MATERIALS ENGINEERING</b>			
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<b>Anjan Sil</b> asil1fmt@iitr.ernet.in	285073 285627		Electro-Ceramics
<b>Chandra Kamlesh</b> kc111fmt@iitr.ernet.in	285736 285031	274347	Materials Design & Dev., Powder Metallurgy & Foundry
<b>Ghosh P.K</b> prakgfmt@iitr.ernet.in	285699 285082	271654	Welding Engineering/Composite Materials
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<b>Ram Phal</b> rpramfmt@iitr.ernet.in	285737 285108	270488	Structural Metallurgy
<b>Ray Subrata</b> surayfmt@iitr.ernet.in	285732 285575		Materials Dev., Cast Metal Matrix Composites
<b>Singh Surendra</b> surenfmt@iitr.ernet.in	285734 285020	274350	Materials Design & Dev. Physical Metallurgy
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<b>PHYSICS</b>			
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<b>Singh Bharat</b>	285772	274256	Irrigation Engineering and Earth Dams
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<b>Singal S.K.</b> sunilfah@iitr.ernet.in	285167	273273	Planning & Design of Civil Works for SHP & Refur
<b>Singh S.N.</b> nishafah@iitr.ernet.in	285842 285831		Electrical Machines, Transmission & Distribution of SHP
<b>Singhal M.K.</b> mksalfah@iitr.ernet.in	285165 285191	275110	Planning, Design & Analysis of Civil Works of SHP
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<b>INFORMATION SUPER-HIGHWAY CENTRE</b>			
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<b>Gupta C.P.</b> (Mechanical and Industrial Engineering)	285668	270539	Energy Heat Transfer and IC Engines
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<b>EMERITUS FELLOWS/SCIENTISTS</b>			
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<b>Singh Rajpal</b> (WRDTC)	285777	271708	O&M of Major Irrigation Systems, Construction & Contract Management

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<b>Swami Saran</b> (Civil) <a href="mailto:saranswami@yahoo.co.in">saranswami@yahoo.co.in</a>	285413	271980	Foundation Engg., Soil Dynamics, Machine Foundation, Reinforced Earth
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<b>Thakkar S.K.</b> (Civil) (Railway Bridge Engg.) <a href="mailto:shashfeq@iitr.ernet.in">shashfeq@iitr.ernet.in</a>	285299	274067	Structural Dynamics
<b>SUPERANNUATED</b>			
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<b>Vasan R.M.</b> (Civil) <a href="mailto:rmvcefce@iitr.ernet.in">rmvcefce@iitr.ernet.in</a>	285450 285504	271753	Transportation Engineering
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## FACULTY AND AREAS OF SPECIALIZATION SAHARANPUR CAMPUS

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## NOTES

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### **MISSION**

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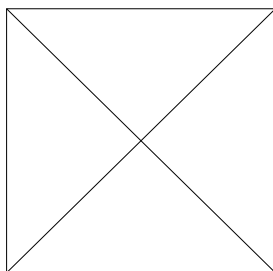
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