ABOUT NITUK

National Institute of Technology, Uttarakhand (NITUK) is one of the 31 National Institutes of Technologies in the country. Since its inception, this Institute has grown many fields and has established itself as one of the best Technical Educational Institutes. NITUK is established in 2009 under the Act of Parliament by Ministry of Human Resource Development. At present, the Institute have about 1006 undergraduates, 112 postgraduates and 15 Ph.D. scholars. The Institute offers full time B. Tech. and M.Tech. Program in Computer Science & Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Mechanical Engineering and Civil Engineering with an intake of 65 (including 5 DASA students) and 15 students respectively in each branch. Under-graduate students are selected through JEE. (Main) & DASA and Post-graduate students are selected through CCMT. The Institute also offers Ph.D. program in various streams of Engineering, Science and Humanities. NITUK is also involved in numerous R&D activities funded through various government and private agencies.

The temporary campus of NITUK is situated in the beautiful valley of Srinagar (Garhwal) at Government Polytechnic. The Institute's buildings in Government Polytechnic houses Department of Sciences and Humanities, Class Rooms, Library, Dispensary, Server Room, Auditorium, Playground and Hostels. NITUK has extended the temporary campus by fabricating three new buildings and one cricket ground in the old ITI campus. New laboratories in various Departments have been constructed with advanced facilities. Engineering Departments and administrative offices have been shifted to the new campus. The Institute has got wide space for each Department with construction spread over more than 14,000 sq. meter (1,50,000 sq. feet) of area.

NITUK has made a very rapid growth in the recent past in terms of starting new academic programs, revision of academic curriculum, development of laboratories and infrastructure. The under-graduate programs have been made credits based and a large number of electives are offered to the students. At present, NITUK has faculty strength of 51.
GOVERNANCE

Board of Governors

NITUK is governed by an autonomous Board of Governors having representatives of the Government of India, Government of Uttarakhand, teaching faculty, industrialists and technologists. The Chairman is nominated by the MHRD, GoI. 

Prof. Shyam Lal Soni Director of the Institute and, Col. Sukhpal Singh is the Registrar of the Institute and Secretary of the Board. The Senate, Finance committee and Building and Works Committee are the statutory committee of the Institute. The present composition of Board is as follows:

- Director, NITUK - Ex-Officio Member
- Joint Secretary to the Government of India to be nominated by the Central Government dealing with Technical Education - Member
- Joint Secretary to the Government of India to be nominated by the Central Government dealing with Finance - Member
- Dr. P. K. Pande, Representative, Govt. of Uttarakhand - Member
- Dr. S. Farooq, Representative, Govt. of Uttarakhand - Member
- Director, IIT Roorkee or his nominee, not below the rank of Professor – Member
- Col. Sukhpal Singh, Registrar, NITUK - Secretary

Senate

- Director, NITUK – Chairman
- Professor T. C. Kandpal, Professor, Centre of Energy Studies, IIT Delhi – Member
- Professor R. B. Deshmukh, Professor, Department of Electronics Engineering, VNIT Nagpur – Member
- Professor Rashmi Gaur, Professor & Head, Department of Humanities and Social Sciences, IIT Roorkee – Member
- Col. Sukhpal Singh, Registrar, NITUK - Secretary

Finance Committee

- Director, NITUK – Ex-Officio Member
- Director, IIT Roorkee – Member
- Joint Secretary dealing with NITs or his nominee – Member
- Financial Advisor (MHRD) or his nominee – Member
- Col. Sukhpal Singh, Registrar, NITUK – Member Secretary

Building Works Committee

- Director, NITUK - Ex-Officio Chairman
- One member nominated by the Central Govt. not below the rank of Director or Deputy Secretary - Member
- Vice Chairman Electrical, IIT Roorkee – Member
- Professor M.N. Viladkar, Department of Civil Engineering, IIT Roorkee - Member
- Superintending Engineer (Civil), IIT Roorkee – Member
- Col. Sukhpal Singh, Registrar, NITUK – Member Secretary
Associate Deans
- Dr. Navjot Singh – Academics
- Dr. Kuldeep Sharma – Student Welfare
- Dr. Pawan Kumar Rakesh – Faculty Welfare
- Dr. Kranti Jain – Planning & Development
- Mr. Amardeep – Estate
- Dr. Abhimanyu Kumar – Research & Consultancy

Heads of Department
- Dr. Aditya Kumar Anupam – Civil Engineering
- Dr. Judhistir Mahapatro – Computer Science & Engineering
- Mr. Saumendra Sarangi – Electrical Engineering
- Dr. Pankaj Kumar Pal – Electronics Engineering
- Dr. Anshul – Mechanical Engineering
- Dr. Indrajit M. Nagpure – Sciences & Humanities

Assistant Registrar & Officers
- Dr. Vineeta Negi – Assistant Registrar, Administration
- Mr. Jagdeep Singh – Assistant Registrar, Academics
- Dr. Kuldeep Singh – Student Activity & Sports Officer

MoU
The Institute has signed Memorandum of Understanding (MoU) with IIT Roorkee, IIT Delhi, IIT Kanpur, IIT Bombay, MNIT Jaipur, NIT Kurukshetra, VNIT Nagpur, NIT Tiruchirappalli for academic and research cooperation.
FACILITIES IN THE CAMPUS

MEDICAL FACILITY
Basic medical facility is provided to cater to the health issues of the students and staff members through Dispensary. Doctor visits the dispensary daily in the evening. Nurse is available in the Institute for 24 hours. The Institute has tied up with the hospitals in Srinagar and Dehradun. All students are covered under health insurance. The Institute has procured the ambulance.

TRANSPORTATION
In case of any emergency Institute provides transport facility to students and staff members round the clock. At present, two vehicles are hired by Institute to facilitate transportation.

GYMNASİUM
“A Sound Soul Resides in a Sound Body”
The Institute has a Gymnasium equipped with necessary facilities to maintain health of students. As a one of the favorite corners, students like to come here and exercise.

POWER BACK-UP
The whole campus is under complete power back-up (4×30 kVA DG sets).

INTERNET FACILITY
The whole campus is equipped with Wi-Fi facility with High-Speed internet connection with 34 Mbps leased line from BSNL and 1Gbps from NKN.

ATM
An ATM of SBI is installed in the Polytechnic Campus of the Institute.

CANTEEN
The canteen of the Institute serves cafeteria items and other eating outlets at a reasonable price.
AUDITORIUM
The Institute has a multi-purpose auditorium that is used for seminars, workshops, recreation, gatherings, screening movies and many more. The auditorium has the seating capacity of 300 persons.

OPEN AIR THEATER
An open air theater is established in the ITI Campus of the Institute which hoisted various major events of Cliffesto.

CONFERENCE HALL
The Institute has a Conference Hall having capacity of 70 peoples. It is used for conducting meetings, seminars, workshops, etc.

ACADEMIC STRUCTURE
At present, NIT Uttarakhand offers B. Tech., M.Tech. and Ph.D. programmes. The Institute will be offering M.Tech. this year through CCMT. Initially, the institute started B. Tech. programmes in three branches with an intake of 30 students per branch. Currently the Institute is conducting B. Tech. programmes in five branches with an intake of 65 students (including 5 DASA students) in each branch. Following are the branches for B. Tech. courses:

- Civil Engineering
- Computer Science & Engineering
- Electrical & Electronics Engineering
- Electronic & Communication Engineering
- Mechanical Engineering

The Institute will be offering M.Tech. in the following branches:

- Civil Engineering with specialization in
  - Structural Engineering
  - Transportation Engineering
- Computer Science and Engineering with specialization in
  - Artificial Intelligence
  - Computing Systems
- Electronics Engineering with specialization in
  - Microelectronics and VLSI Design
  - Communication Systems
- Electrical Engineering with specialization in
  - Power System & Control
  - Power Electronics & Drives
- Mechanical Engineering with specialization in
  - Manufacturing Technology
  - Machine Design
The Institute offers Ph. D. programme in following branches:

- Civil Engineering
- Computer Science & Engineering
- Electronics Engineering
- Mechanical Engineering
- Sciences and Humanities (Mathematics, Physics, Chemistry, Social Science, English)

The academic structure of the Institute has many salient features:

- We have the most modern flexible Academic structure
- 35 % courses are elective
- Freedom to choose elective courses per semester
- Freedom to choose sequence of courses
- Facility to go for credit exchange programme in another Institute for one complete semester
- Freedom to complete programme in VII semesters and going to industry for one semester internship

Admission

**B.Tech. Programme:**
The admission to B.Tech. degree programmes at NIT Uttarakhand is through Joint Seat Allocation Authority (JoSAA). Admissions are on the basis of All India Rank (AIR) prepared by JoSAA considering score in JEE (Main)-2017 & DASA-2017 and normalized score of Class 12th or equivalent qualifying exam (60% & 40% weightage, respectively).

**M.Tech. Programme:**
The admission to M.Tech. degree programmes at NIT Uttarakhand is through Centralized counselling for M.Tech. / M. Arch. / M.Plan. / M. Des. Admissions (CCMT). Admissions will be on the basis of GATE-15 & GATE-16.

**Ph.D. Programme:**
For the admission in the Ph.D. program, candidates are shortlisted for written test on the basis of required qualification. The qualified candidates are called for personal interview. After qualifying, the candidates are provisionally admitted for Ph.D. in the Institute. Their registration for Ph.D. programme at the Institute is confirmed only after successful completion of Pre-Registration viva-voce.

**FACULTY AND STAFF**

The Institute is led by the incharge Director with the help of 1 Registrar, 51 Faculty members, 18 Trainee Teachers, 3 Officers and 63 Staff members. The primary focus of the Institute has always been on facilitating quality education. To meet this purpose, many meritorious and spirited faculty members, from different parts of the country, have been recruited in different departments of the Institute from time to time. The total number of the faculty members is given below:
TEACHING STAFF

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professors</td>
<td>51</td>
</tr>
<tr>
<td>Trainee Teachers</td>
<td>18</td>
</tr>
</tbody>
</table>

- The student-faculty ratio is 12:1 approximately.
- For ensuring proper growth of the students, teachers guide the students as Faculty Advisors.
- Teachers assist students in varied extra-curricular activities including sports, cultural activities, etc.

DEPARTMENTS

At present, the Institute is running with six departments:

1. Department of Civil Engineering
2. Department of Computer Science and Engineering
3. Department of Electronics Engineering
4. Department of Electrical Engineering
5. Department of Mechanical Engineering
6. Department of Sciences and Humanities

All the departments of the Institute are equipped with modern experimental facilities to cater the need of the growing technology. Various activities are organized to enhance the knowledge and experience of the students to make them efficient for their future prospectus. Every department arranges various Workshops, Expert Lectures, Invited Talks, etc. from time to time for the betterment of the students.
Civil Engineering

The Department of Civil Engineering was established in 2013 with an intake of 60 students. The Department offers a four-year course leading to the Bachelor’s Degree in Civil Engineering. Department of Civil Engineering has advanced academic structure with core course and variety of elective courses so that the students' knowledge is not only enhanced in core discipline but also in the related disciplines.

Members
Assistant Professor: 08
Trainee Teachers: 05
Technical Assistant: 02

LABORATORIES

- Engineering Mechanics Lab
- Fluid Mechanics lab
- Strength of Material Lab
- Building Material Testing Lab
- Transportation Engineering Lab
- Environmental Engineering Lab
- Geology Lab
- Survey Lab
- Geotechnical Engineering Lab
- Structural Analysis Lab
- Computational Mechanics Lab
- Concrete Testing Lab
- Geomatics Lab
- Non Destructive Testing
- Structural Dynamics Lab
Faculty Profiles

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Faculty Profile</th>
<th>Designation</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Aditya K Anupam</td>
<td>Head &amp; Assistant Professor</td>
<td>Transportation Engineering</td>
</tr>
<tr>
<td>2.</td>
<td>Ms. Smita Kaloni</td>
<td>Assistant Professor</td>
<td>Structural Engineering</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Himanshu Sharma</td>
<td>Assistant Professor</td>
<td>Hydraulics Engineering</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Kranti Jain</td>
<td>Assistant Professor</td>
<td>Structural Engineering</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. Shashi Narayan</td>
<td>Assistant Professor</td>
<td>Structural Engineering</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. Laiju A R</td>
<td>Assistant Professor</td>
<td>Environmental Engineering</td>
</tr>
<tr>
<td>7.</td>
<td>Mr. Devesh Punera</td>
<td>Assistant Professor</td>
<td>Structural Engineering</td>
</tr>
<tr>
<td>8.</td>
<td>Mr. Amardeep Dahiya</td>
<td>Assistant Professor</td>
<td>Structural Engineering</td>
</tr>
<tr>
<td>9.</td>
<td>Mr. Muskan Mayank</td>
<td>Trainee Teacher</td>
<td>Hydraulics Engineering</td>
</tr>
<tr>
<td>10.</td>
<td>Mr. Shashank Bhatra</td>
<td>Trainee Teacher</td>
<td>Geotechnical Engineering</td>
</tr>
<tr>
<td>11.</td>
<td>Mr. Bibhas Kumar</td>
<td>Trainee Teacher</td>
<td>Geotechnical Engineering</td>
</tr>
<tr>
<td>12.</td>
<td>Mr. Abhinav Kumar</td>
<td>Trainee Teacher</td>
<td>Transportation Engineering</td>
</tr>
<tr>
<td>13.</td>
<td>Mr. Neeraj Kumar</td>
<td>Trainee Teacher</td>
<td>-</td>
</tr>
</tbody>
</table>

Facilities

The department of Civil Engineering has fully functional lab facilities covering all important experimental setup for undergraduate program. The department is also in process to establish lab facilities for post graduate program in structural and transportation engineering along with research facilities in environmental engineering and computational mechanics. The department has following lab facilities.

1. **Engineering Mechanics Lab**: Engineering mechanics lab offers basic and fundamental experiments on application of force and motion. The lab plans to offer new set of specially prepared experiments from coming academic year.

2. **Structural Analysis Lab**: The Structural Analysis Laboratory serves a wide spectrum of activities covering those related to teaching, research, development, and consultancy. Equipped with basic instruments laboratory also plans to install load frame and advance displacement and strain measuring sensors.
3. **Building Material Testing Lab**: This lab facility delivers extensive range of tests on building materials from pre-construction phase till post construction phase. The lab has all major test facilities for industrial consultancy also.

4. **Road Material Testing Lab**: The Road Material Testing Laboratory carries out testing and analysis on all types of road materials such as asphalt, binders, aggregate materials and other unbound materials for use as bearing layers and reinforcing layers.

5. **Geology Lab**: Department of Civil Engineering also undertakes research and teaching in engineering geology with special interest in Himalayan geology. Department intends to plan a long term solution for hill stability.

6. **Environmental Engineering Lab**: Department has a state of the art environmental lab facility. The lab facility has all major instruments to test drinking water supply and monitor the level of impurity in water bodies.

7. **Soil Testing Lab**: Soil Testing laboratory is equipped with facilities to carry out many types of tests on soils. These include testing of a large range of sample sizes for compressibility, shear strength and drainage properties. There are different physical, chemical and geotechnical properties determined in the laboratory that is required for identifying the geomaterials. These properties are extensively used in designing of dams, reservoirs, foundations and tunnels etc. The lab also offers consultancy services to industry.

8. **Software and Computational Lab Facility**: The department has established one computational lab facility which not only offers students learning on basic structural design software but also caters the need the large computational work involved in research work in numerical and analytical mathematical techniques.

9. **Geomatics Lab**: The department has fully functional surveying and geomatics lab facility. The facility has all major measuring devices and plans to further add more remote sensing and GPS devices to enrich the learning environment in the department.

10. **Other Labs**: The civil engineering department has also plans to develop laboratory facility in the field of non-destructive testing of structures along with advance hydraulics, foundation engineering and traffic engineering lab facility.

**Research in Department**
Department of civil engineering has also established a culture of excellent faculty research and involvement of students in industry and research oriented projects. Department is establishing state of the art research facility in environmental engineering, which will not only modernize the ways of testing drinking water but
will also produce excellent ways of waste water management in hilly state of Uttarakhand. The research in the material testing lab is intended to provide a cheaper solution to the construction material requirements. Faculties plan to use the naturally available resources for better utilization in construction activities. River material found along the bank of river Alaknanda has been continuously tested in different gradation profiles to offer a cheaper and better material availability locally. Students are also involved in these projects and material testing lab facility is extensively used for these experiments. Department is also involved in understanding the better safety aspects of pedestrians and vehicles movement. Taking the case study of various towns, faculties in the department are involved to propose a comfortable and safer solution for traffic control and vehicular movement. Faculties from the department have taken active part in national and international conferences organized by transportation research board and other active bodies.

Department is also involved in working towards the earthquake resistant structures with application of reliability based design. Faculties in the department are involved in studying the progressive collapse of structures and extending pushover analysis to design of multi-story buildings. Along with this, faculties in the department are also involved in studying the vibration of structures in crude sense of mathematics by applying inverse problems and system identification techniques. Department faculties are also involved in studies involving the behavior of concrete for structural use. Multiscale modelling of concrete is being studied for fracture and advance shear behavior under system of loadings. Mechanics based studies involving advance form of functionally graded materials and composites are also underway in the department.

Department is also involved in research on soil elastic medium behavior and stability of tunneling in different ground strata. The soil stabilization and hill slope analysis is also studied very keenly in the department. Modelling and study of sub-surface hydrology is also taken in the department.

**Specialized Training in the Department**

Department also offers a wide spectrum of courses as electives and open electives which not only strengthen the student knowledge on basics of civil engineering but also prepares them for advance studies and better industrial exposure.

**Technical Activities:** Department students also take active part in technical activities organized in the institute and also in national level college technical
festivals. Bride making competition, better housing solution projects are few of the activities where students from the department have performed in excellent manner.

**Industrial Visits:** To provide the better learning experience to students, department also offers industrial visits to students. Students are allowed to see the application at the ground state and interaction with senior officials and engineers make them more actively concerned about their responsibility and possible work profile of tomorrow. Third year undergraduate students of civil engineering department were also taken to an industrial tour of Mundra port in Gujarat to witness the functioning of thermal power plant along with harbor and port.

**Student Projects:** Department offers major and minor projects in various research and industry oriented topics to students. Under the close mentorship of department faculty members, students learn to use the application of theory for solution of practical problems. Department hosts semester project exhibition also where student projects are showcased to the institute. This learning environment not only gives sufficient knowledge to our students but also prepares them for presenting their organization and work in better communicative way.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Name of Faculties coordinator</th>
<th>Name of student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Design of 3 storey buildings concrete Manual design</td>
<td>Ms. Smita Kaloni</td>
<td>Nitin Upreti, Rohan Kumar Rathi, Shivashish Gautam</td>
</tr>
<tr>
<td>2. Design of 3 storey buildings concrete using excels.</td>
<td>Mr. Shashi Narayan</td>
<td>Himanshu Singh Ganwar, Arvind Kumar Meena, Akshita Kumari</td>
</tr>
<tr>
<td>3. Design of steel building</td>
<td>Mr. Shashi Narayan</td>
<td>Saurabh Kumar, Rohit Kumar Patel, Ayush Rana</td>
</tr>
<tr>
<td>4. Design of Chimney subject to variable length</td>
<td>Mr. Devesh Punera</td>
<td>Shobhit Kumar</td>
</tr>
<tr>
<td>5. Commentary on IS1893 Part-2</td>
<td>Ms. Smita Kaloni</td>
<td>Dharmendra Kumar, Vishal</td>
</tr>
<tr>
<td>6. Design of Industrial shed</td>
<td>Dr. Kranti Jain</td>
<td>Jamuna Prasad, Sandeep Nautiyal, Shubham Rana</td>
</tr>
<tr>
<td>7. Design of transmission tower.</td>
<td>Dr. Kranti Jain</td>
<td>Guljeet Singh, Krishna Nand Yadav, Manoj Kumar Singh</td>
</tr>
<tr>
<td>08. Determination In-site density at different ovation of Sumari Campus NITUK</td>
<td>Dr. Aditya Kumar Anupam</td>
<td>Ramvilas Singh Patel, Umesh Dangi, Mohd. Faizan</td>
</tr>
<tr>
<td>09. Analysis the physical properties and density at different location of NITUK (Sumari Campus)</td>
<td>Dr. Aditya Kumar Anupam</td>
<td>Rohit Raj, Sachin Kumar Prince, Hemant Gautam</td>
</tr>
<tr>
<td>10. Utilization of Alaknanda River bed material in Rigid Pavement Construction</td>
<td>Dr. Aditya Kumar Anupam</td>
<td>Sameer Malik, Pooja Rawat, Dauli Butola</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>11. Design of flexible pavement by KENPav</td>
<td>Dr. Aditya Kumar Anupam</td>
<td>Satendra Kumar, Bivesh Kumar Rohit Raj</td>
</tr>
<tr>
<td>12. Traffic analysis of Srinagar City by different method.</td>
<td>Dr. Aditya Kumar Anupam</td>
<td>Jitendra Kumar Bharti, Bharat Kumar</td>
</tr>
<tr>
<td>13. Few studies on functionally graded beams</td>
<td>Mr. Devesh Punera</td>
<td>Shivpal Singh, Arun Gangwar, Kshitij Raj</td>
</tr>
<tr>
<td>14. Preparation of hybrid nanoparticles (synthesis)</td>
<td>Mr. Laiju A. R.</td>
<td>Shubham, Suraj Giri, Ashish Meena</td>
</tr>
<tr>
<td>16. Trace removal of Cr (VI) by Ion Exchange resin</td>
<td>Mr. Laiju A. R.</td>
<td>Shakshi Singh, Akash Meena, Abhishek Meena</td>
</tr>
<tr>
<td>17. Trace Removal of Resin Cr (VI) by 31x resin.</td>
<td>Mr. Laiju A. R.</td>
<td>Ramesh, Shailendra Prasad Nautiyal</td>
</tr>
<tr>
<td>18. Desilting Analysis in Tunneling and Pressure measure.</td>
<td>Mr. Shashi Narayan</td>
<td>Sagar Tomar, Saurav Aswal, Shivashish</td>
</tr>
</tbody>
</table>
Computer Science and Engineering

The Department of Computer Science and Engineering is an integral part of National Institute of Technology (NIT) Uttarakhand. It started in 2010 with an intake of 30 students which was increased to 60 in 2013 onwards.

Chief Features of the Department
- Young, energetic and enthusiastic faculty
- Latest computer systems with Intel i5 processor, 1TB HDD and 4 GB RAM
- Workstations with Intel Xeon Processor, 1 TB HDD and 4GB RAM for high computational tasks
- Variety of courses in CSE as well as other disciplines
- Online test facility for Training & Placement in all laboratories.

Members
- Assistant Professor: 09
- Trainee Teacher: 01
- Technical Assistant: 02
- Technician: 04

Laboratories
1. Programming Lab
2. Software Lab
3. Project Lab
4. Networks Lab
5. Unix/Linux Lab

Major Facilities in the Department
- **Server:** Server 1: 4-Dell M610 Blade Servers, Server 2: 4-IBM Blade Servers
- **Internet Connectivity:** 34 Mbps Leased Line from BSNL and 1 Gbps NKN
- **Wi-Fi Connectivity:** Whole Campus, Departments and Hostels are covered up with Wi-Fi for Internet Connectivity.
- **Network Security:** Open Source Firewall
- An educational workshop on “Open Source Software – IT for you” was organized on August 2, 2014.
- A 2-day workshop on NMEICT Awareness on “Recent Trends in Education System” was organized on 29-30 November 2014.
- Guest Lectures by Expert Faculties from IITs/NITs/JNU.
## Faculty Profiles

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Faculty Name</th>
<th>Designation</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Judhistir Mahaptro</td>
<td>Head &amp; Assistant Professor</td>
<td>Wireless Body Area Networks and MANETs</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Nitin Kumar</td>
<td>Assistant Professor</td>
<td>Pattern Recognition and Image Processing</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Navjot Singh</td>
<td>Assistant Professor</td>
<td>Pattern Recognition and Computer Vision</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Abhimanyu Kumar</td>
<td>Assistant Professor</td>
<td>Cryptography, Secure Multicasting, Cryptographic Key Establishment</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. Krishan Kumar</td>
<td>Assistant Professor</td>
<td>Cloud Computing, Computer Vision, Multimedia Analysis</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. Maroti Deshmukh</td>
<td>Assistant Professor</td>
<td>Cryptography, Image Security and Biometrics</td>
</tr>
<tr>
<td>7.</td>
<td>Mr. Maheep Singh</td>
<td>Assistant Professor</td>
<td>Network Security and Image Processing</td>
</tr>
<tr>
<td>8.</td>
<td>Mr. Parveen Kumar</td>
<td>Assistant Professor</td>
<td>Pattern Recognition and Image Processing</td>
</tr>
<tr>
<td>9.</td>
<td>Mr. Surendra Singh</td>
<td>Assistant Professor</td>
<td>Real Time Network Security and Ad-Hoc Network</td>
</tr>
<tr>
<td>10.</td>
<td>Ms. Sneha Chauhan</td>
<td>Trainee Teacher</td>
<td></td>
</tr>
</tbody>
</table>

## Facilities

**Central Computing Facilities**

- **Internet Connectivity:** Whole Campus, Departments and Hostels are covered with Internet Connectivity of **34 Mbps** Optical Fiber Leased Line from BSNL.
- **Wi-Fi Campus:** The whole NITUK Campus is connected via Wi-Fi. The Wi-Fi is available between 06:00am to 12:00 midnight.
- **Servers:** The Institute has 2 high Capacity Servers installed in the Central Computing Centre
  - **Server 1:** 4-Dell M610 Blade Servers
  - **Server 2:** 4-IBM Blade Servers

The Labs of Department of Computer Science and Engineering are equipped with the softwares like C/C++ Compilers, Java Run Time Environment, Python, Oracle 11g,

Laboratories

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Laboratory</th>
<th>No. of Computer Systems</th>
<th>Softwares Installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Programming Lab</td>
<td>30</td>
<td>C/C++, JAVA, MATLAB</td>
</tr>
<tr>
<td>2</td>
<td>Linux Lab</td>
<td>35</td>
<td>Ubuntu Linux, C/C++, JAVA, MATLAB, LEX and FLEX</td>
</tr>
<tr>
<td>3</td>
<td>Network Lab</td>
<td>35</td>
<td>C/C++, JAVA, MATLAB</td>
</tr>
<tr>
<td>4</td>
<td>Software Lab</td>
<td>30</td>
<td>C/C++, JAVA, MATLAB</td>
</tr>
<tr>
<td>5</td>
<td>Project Lab</td>
<td>20 Workstations</td>
<td>-</td>
</tr>
</tbody>
</table>

Hardware Configuration

<table>
<thead>
<tr>
<th></th>
<th>Windows 8.1, Ubuntu 14.04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td></td>
</tr>
<tr>
<td>Processor</td>
<td>i3/i7</td>
</tr>
<tr>
<td>RAM</td>
<td>4/8 GB</td>
</tr>
<tr>
<td>Hard Disk</td>
<td>1 TB</td>
</tr>
<tr>
<td>Graphics Card</td>
<td>1 GB NVIDIA</td>
</tr>
<tr>
<td>Display</td>
<td>23/19 inch Display</td>
</tr>
</tbody>
</table>

Programming Lab

![Programming Lab Images]
Network Lab:

Software Lab:

Linux Lab:
Specialized Training in the Department:
Student Projects

1) Event Summarization in Videos – By Mr. Deepak Kumar Mishra under the supervision of Dr. Navjot Singh.


2) Multi Secret Sharing Scheme - By Mohit Rajput under the supervision of Mr. Maroti Deshmukh


Technical Activities
- LAN Gaming
- Coding/Debugging

Research
- Total number of publications in International Journals (Last three years): 16
- Total number of publications in International conferences (Last three years): 11
Started during 2010-11 session, the Department offers B.Tech. programme in Electronics and Communication Engineering. The Department is now offering M.Tech programme in Microelectronics & VLSI Design and Communication Systems from Autumn 2016. The ECE department has always taken lead in establishing well equipped and state of art lab facilities for students. Recently Department has developed Research lab with latest workstations, National instruments epquipments, logic analyzer and lab view software.

**Members**

Assistant Professor: 07
Trainee Teachers: 05
Technical Assistant: 03

**LABORATORIES**

- Analog Electronics Lab
- Communication System Lab
- Digital Circuits Lab
- Microprocessor Lab
- Electronics Systems Design Lab
- Research Lab
- Digital Signal Processing Lab
- Electronics Workshop

- EPABX – Internal Telephone Exchange of 168 ports.
- A 5 year project on Special Manpower Development Programme Chip to System Design (SMDP-C2SD) by DeitY.
### Faculty Profiles

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Faculty Name</th>
<th>Designation</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Pankaj Kumar Pal</td>
<td>Head &amp; Assistant Professor</td>
<td>Semiconductor device physics and VLSI Design</td>
</tr>
<tr>
<td>2.</td>
<td>Mr. Santosh Kumar Bhagat</td>
<td>Assistant Professor</td>
<td>RF &amp; Microwave</td>
</tr>
<tr>
<td>3.</td>
<td>Mr. Kumar Gaurav</td>
<td>Assistant Professor</td>
<td>RF Active Circuits</td>
</tr>
<tr>
<td>4.</td>
<td>Ms. Ghanapriya Singh</td>
<td>Assistant Professor</td>
<td>Digital Signal Processing, Image Processing</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. M. Raja Madasamy</td>
<td>Assistant Professor</td>
<td>Photonics, Optical Communication</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. Tushar Goel</td>
<td>Assistant Professor</td>
<td>RF &amp; Microwave</td>
</tr>
<tr>
<td>7.</td>
<td>Mr. Hemant Kumar Singhal</td>
<td>Assistant Professor</td>
<td>RF &amp; Microwave</td>
</tr>
<tr>
<td>8.</td>
<td>Ms. Sarita Yadav</td>
<td>Trainee Teacher</td>
<td>VLSI Design</td>
</tr>
<tr>
<td>9.</td>
<td>Mr. Tejas Laheri</td>
<td>Trainee Teacher</td>
<td>RF &amp; Microwave</td>
</tr>
<tr>
<td>10.</td>
<td>Mr. Nitanshu Chauhan</td>
<td>Trainee Teacher</td>
<td>VLSI design</td>
</tr>
<tr>
<td>11.</td>
<td>Mr. Vivek Kumar</td>
<td>Trainee Teacher</td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Ms. Prerna Roy</td>
<td>Trainee Teacher</td>
<td></td>
</tr>
</tbody>
</table>

### Facilities

1. **Research Lab**: This lab is mainly dedicated to research work for UG/PG and faculty members. This lab consists of high speed computation platform to cater to the need of research in VLSI, Microwave and signal processing.

2. **Analog Electronics Lab**: This lab focusses on providing fundamental knowledge of basic electronic devices and circuits to the students. ECE as well as EEE Students are made to work on discrete and integrated circuit components.

3. **Microprocessor Lab**: Microprocessor lab is dedicated to programming and interfacing of 8 bit 8085 microprocessor and 8051 microcontroller with various peripherals. Students are encouraged to design various automated embedded systems based electronics projects in the lab.

4. **Digital Signal and Image Processing**: This lab provides real-time processing of 1D and 2D signals and having floating point processor that can provide minimum quantization errors. Students also can visualize Signals and analyze its basic properties like time shifting, modulation, filtering, scaling, and compression on a virtual platform such as lab-view and code composers.

5. **Communication Lab**: Communication lab facilitates the students to understand the basic principle of communication systems. Students can realize different analog and digital modulations such as amplitude modulation, frequency modulation, Phase shift keying, amplitude shift keying, Frequency shift keying modulation, QPSK and QAM etc. on trainer kits and visualize the signal processing on CRO’s, high end digital storage oscilloscopes and spectrum analyzer.
6. **Electronics System Design Lab:** Electronics system design lab is devoted to design advanced digital and electronics systems, mostly this lab is utilized by third year and final year students. This lab consists of 20 high end computer systems for hardware description language programming and FPGA Altera DE2 kits for interfacing purpose.

7. **Electronic Workshop:** Students from ECE as well as other departments interested in robotics and embedded systems work in this lab. Lab provides all basic facilities like IC's, PCB boards, soldering irons, motors and AVR microcontroller kits, USB burners. In addition, department has also purchased new E-Yantra kits for robotics. This lab is used mainly by the students working on their major and minor projects.

8. **Digital Electronics Lab:** Digital electronics lab is basic lab for Electronics, Electrical, and computer science undergraduate students. Students are made familiar with basic building block of digital electronics systems such as logic gates, combinational and sequential circuits, using digital IC's and digital training kits.

In addition to this Department has following facilities for UG/PG students in various labs:

- Cadence and Synopsys Electronic design and automation (EDA) Tool
- Digital storage oscilloscope for 4 channels upto 200MHz
- Spectrum analyzer & Vector network analyzer for measurements of high frequency up to 8.5 GHz
- RF signal analyzer upto 26.5 GHz
- Logic analyzer for 34 channels
- Digital IC testing facility
- Floating point digital signal processor
- Data acquisition systems upto 1 GHz
- Arbitrary waveform generator
- 70 frame rate per second camera
- High end computer facilities in Electronics system design and digital signal processing lab
- Digital measurement for voltage, current, resistors and capacitors
- High configured latest workstations in Research lab.

### Research in Department

- Data Hiding steganography in Image Processing
- Antenna for Inter satellite Communication
- On chip RF Transceiver
- Design of Power amplifier
- Photonic crystal Device
- Context Awareness
- Minimum power supply design for FINFET
- Microwave Filter
- Organic Electronics
- Low noise Oscillator
- Microelectronics and VLSI
Specialized Training in the Department
- Training conducted on Labview software and hardware
- Training conducted on MATLAB computation programming
- Training conducted on FPGA hardware programming

Student Projects
- Design of Monopole UWB Antennas
- Design of Fractal UWB Antennas
- Digital Processing and Filtering of audio signal on FPGA
- FIR Filter Implementation on FPGA
- Electronic voting machine prototype on FPGA
- Alphabetical keypad using AT89C51 Microcontroller
- Water Level Indicator
- Implementation of snake game using VGA keyboard interfacing on FPGA Board
- Digital Alarm Clock on FPGA
- Implementation of Traffic Surveillance system
- Implementation of Digital audio 12 Band Equalizer on NI Labview
- LCD Display using Altera DE2 Cyclone

Technical activities:
Time to time students of ECE department have been indulged in technical activities and participated in technical competition held in different IIT’s and NIT’s in India.
One Final Year student of 2011 batch got selected for Youth science and technology delegations programme 2014 in China.
One Third year student of 2013 batch have publish a research paper in international conference.

Industrial Visits:
- Chilla hydro power project, Haridwar
- Bharat Heavy Electricals Limited, Haridwar
- Tarapur Atomic power station, Mumbai
The Electrical Engineering Department was established during the inception of the Institute in 2010. Department has a fine blend of young and dynamic faculty, providing quality education. The major areas of faculty expertise include Power Systems, Power Electronics and Electrical Drives, Control System and Instrumentation.

The Department is planning to start M. Tech program in Electrical Engineering. This will be a unique program in which the students will have the freedom to choose their specialization in Power System and Control, and Power Electronics and Drives depending upon the choice of elective subjects in first and second semester.

LABORATORIES

- Elementary Electrical Engineering Lab
- Electrical Workshop Lab
- Electrical Machine Lab
- Measurement & Instrumentation Lab
- Electrical Drives Lab
- Control System Lab
- Basic Electrical Circuits Lab
- Switch Gear and Protection Lab
- Power Electronics Lab
- Simulation Lab

The lab facilities and the infrastructure are regularly upgraded. Students are taken on technical tours to leading industries such as THDC, NHPC etc.

Members
Assistant Professor: 08
Trainee Teacher: 03
Technical Assistant: 01
Facility Profiles

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Faculty</th>
<th>Designation</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Mr. Saumendra Sarangi</td>
<td>HoD &amp; Assistant Professor</td>
<td>Power System &amp; Renewable Energy</td>
</tr>
<tr>
<td>2.</td>
<td>Mr. Prakash Dwivedi</td>
<td>Assistant Professor</td>
<td>Control System</td>
</tr>
<tr>
<td>3.</td>
<td>Mr. Vineet P. Chandran</td>
<td>Assistant Professor</td>
<td>Electric Drives &amp; Renewable Energy</td>
</tr>
<tr>
<td>4.</td>
<td>Mr. Mahiraj Singh Rawat</td>
<td>Assistant Professor</td>
<td>Power System &amp; Renewable Energy</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. Sourav Bose</td>
<td>Assistant Professor</td>
<td>Power Electronics, Electric Drives</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. V. G. Durgarao Rayudu</td>
<td>Assistant Professor</td>
<td>Control System</td>
</tr>
<tr>
<td>7.</td>
<td>Mr. Suryanarayana Gangolu</td>
<td>Assistant Professor</td>
<td>Power System</td>
</tr>
<tr>
<td>8.</td>
<td>Mr. Tripurari Nath Gupta</td>
<td>Assistant Professor</td>
<td>Power Electronics</td>
</tr>
<tr>
<td>9.</td>
<td>Mr. Nitesh Kumar</td>
<td>Trainee Teacher</td>
<td>Electric Drives</td>
</tr>
<tr>
<td>10.</td>
<td>Mr. Rohit Kumar</td>
<td>Trainee Teacher</td>
<td>Power Electronics</td>
</tr>
<tr>
<td>11.</td>
<td>Mr. Himesh Kumar</td>
<td>Trainee Teacher</td>
<td>-</td>
</tr>
</tbody>
</table>

Facilities

1. **Elementary Electrical Engineering Lab:** The main objective of this lab is to clear the fundamental knowledge of the Electrical Engineering like operation of Transformer and different Tests on Transformer to find the Equivalent circuit parameters, Basic elements/components of Electrical Engineering and Electrical Machines which includes both AC and DC.

2. **Electrical Workshop Lab:** The course is design to provide students a wide spread knowledge and understanding of the workshop tools, Basics of the House hold Electrical Equipments and other facilities. The indispensable and pervasive knowledge of Electrical wiring and the Electronic circuit will give the students an insight to their practical approach in our daily life. To explain the various tools used by electrician wiring regulations, types of cables and electrical accessories including switches, plug, lamps, sockets, fuse Circuit breaker etc., symbols for electrical wirings, wiring schemes for the two way and three way circuits, voltage and current measurement, study of Transformer winding, Motor and Generator winding and performing the basic maintenance and trouble suitting of house hold equipments and energy saving etc.

3. **Basic Electrical Circuits Lab:** To enable students to gain skill using basic electrical Laboratory equipments such as meters, Oscilloscope, DSO, DC Regulated Power supplies which skills they will need a subsequent electrical engineering laboratory.
and industries. To have the student gain skill recording data and reporting experimental results to effectively communicate what they have done and observed to give student self-confidence and motivation in this laboratory. The objective of this lab is to make the students better understanding of different network theorems, Resonance, Coefficient of coupling of a transformer, Network Parameters and their practical applications in real world problems.

4. **Measurements & Instrumentation Lab**: To provide practical knowledge of various AC bridges for the measurement of inductance, mutual inductance and capacitance, various methods for the measurement of Low, Medium and High resistances, energy meters and wattmeter's, current transformer, and different Transducers.

5. **Control Systems Lab**: Control system applications are assuming an increasingly important role in developing world, making it crucial for the students to be exposed to contemporary control system equipment in realistic manner, in order to connect theatrical material thought in the lecture courses with the realities of the physical hardware and simulation throughout the computing language. To develop the problem solving skills and understanding of linear control systems through the techniques and principles of control systems like Time and frequency domain representations and analysis, Concept of stability, Functioning, Tuning, Designing and Practical applications of PID controllers, and Compensators, and Different Servo Mechanism Techniques. To obtain the accurate models, identification procedures incorporating MATLAB functions are also described.

6. **Electrical Machines Lab**: To develop Practical Knowledge and to make better study of Electrical machines and their application and the operation and various characteristics of DC Machines, Transformers, Induction Machines and Synchronous Machines.

7. **Power Electronics Lab**: To study the Various characteristics of UJT, SCR and its Commutation Techniques, study of various Converters like Rectifiers, Chopper, Inverters, Cyclo-converters and AC Regulators.

8. **Switch Gear & Protection Lab**: The main objective of this lab is to provide the knowledge of protection against the various faults generally occurred in the transmission and distribution system, Complete protection of Synchronous generators, Fault detections in the cables, Different types of Transformer protection, etc.

9. **Electrical Drives Lab**: Electrical Drives Lab is a well equipped with latest cutting edge technology in the field of Electric Drives and Control which is operating with a platform of LABVIEW, Special machines like Switch Reluctance motor, Brush Less DC motor, etc. It also comprises grid integration of DC sources like PV, Wind and Battery.

10. **Simulation Lab**: We have the various softwares like MATLAB/SIMULINK and PSIM installed in 30 computers. MATLAB is a higher level mathematical computing language that provides a broad platform for Algorithm development, Data Analysis, Data visualization, etc. Together with SIMULINK and additional tool boxes it facilitates Control system Design and Analysis, Power Electronic Converters Design
and Analysis, Power System Planning and Commissioning which can be later be implemented in real time application using Real Time Workshop.

Research
All the Faculty members in the Department are continuing their research activities in the various Prestigious Institutes in India like IITs and NITs. Some of the Faculty members are working in the emerging fields of the Control system which relates the realistic problems in various areas. Some of the Faculty members are working in the field of Power system Protection and Power Electronic Drives and Renewable Energy Applications. Most of the Faculty members were published in various reputed Journals and conferences in India and Outside the India.

Specialized Training in Department:
Students Project:
The students are motivated by involving them in the projects related to various fields of Electrical Engineering like Power System, Switch Gear & Protection, Power Electronics, Electrical Drives, Renewable Energy, Control System etc. The details of the Projects completed by the students are as follows:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Project Name</th>
<th>Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Design and simulation of Renewable Energy based Thermoelectric Refrigerator</td>
<td>Prof. Virendra Kumar Sharma</td>
</tr>
<tr>
<td>2</td>
<td>Speed Control of Induction Motor using Fuzzy Controller</td>
<td>Mr. Mahiraj Singh Rawat</td>
</tr>
<tr>
<td>3</td>
<td>Speed Control of Induction Motor using PWM Techniques</td>
<td>Mr. Mahiraj Singh Rawat</td>
</tr>
<tr>
<td>4</td>
<td>Simulation of three phase inverter using IGBT</td>
<td>Mr. Mahiraj Singh Rawat</td>
</tr>
<tr>
<td>5</td>
<td>Design a fracitance</td>
<td>Mr. Prakash Dwivedi</td>
</tr>
<tr>
<td>6</td>
<td>Implementation of drives using LabView</td>
<td>Mr. Vineet P. Chandran</td>
</tr>
<tr>
<td>7</td>
<td>Automatic Night Lamp</td>
<td>Mr. Tripurari Nath Gupta</td>
</tr>
<tr>
<td>8</td>
<td>3 phase inverter</td>
<td>Mr. Sourav Bose</td>
</tr>
<tr>
<td>9</td>
<td>Design of single Phase inverter</td>
<td>Mr. Sourav Bose</td>
</tr>
<tr>
<td>10</td>
<td>Boost Converter</td>
<td>Mr. Sourav Bose</td>
</tr>
<tr>
<td>11</td>
<td>Close loop control of Boost Converter</td>
<td>Mr. Parakash Dwivedi</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mr. Sourav Bose</td>
</tr>
<tr>
<td>12</td>
<td>Protection of Transmission line system</td>
<td>Mr. Surya Narayan Gangolu</td>
</tr>
<tr>
<td>13</td>
<td>Half bridge transformer isolated buck converter</td>
<td>Mr. T. N. Gupta</td>
</tr>
<tr>
<td>14</td>
<td>Fault classification and location on a series compensated line</td>
<td>Mr. Surya Narayana Gangolu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mr. Saumendra Sarangi</td>
</tr>
<tr>
<td>15</td>
<td>Estimation of Phasors during fault using DFT</td>
<td>Mr. Saumendra Sarangi</td>
</tr>
<tr>
<td>16</td>
<td>Calculation of fault distance using voltage and</td>
<td>Mr. Saumendra Sarangi</td>
</tr>
</tbody>
</table>
current measurement at one end of cable

<table>
<thead>
<tr>
<th>No.</th>
<th>Project Description</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Design and construction of a under voltage relay for household purpose</td>
<td>Mr. Surya Narayana Gangolu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mr. Saumendra Sarangi</td>
</tr>
<tr>
<td>18</td>
<td>Self-Excited Induction generator</td>
<td>Mr. Mahiraj Singh Rawat</td>
</tr>
<tr>
<td>19</td>
<td>Solar Energy conversion system</td>
<td>Mr. Manoj Kumar Senapati</td>
</tr>
<tr>
<td>20</td>
<td>Design of 3 phase inverter</td>
<td>Mr. Sourav Bose</td>
</tr>
</tbody>
</table>

**Technical Activities**

To relate education to real world various technical activities are organized by the students throughout the year under CSA & different technical clubs formed by the students. The students of Electrical Engineering Department are also participated in various technical events organized by Prestigious Institutes in India like IITs and NITs. Recently, students of Electrical Engineering Department have formed the IEEE Student Chapter to organized different workshops and technical activities.

**Industrial Visits**

The details of various visits organized by department are as follows:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Organization</th>
<th>Year of visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tehri Hydro Development Corporation (THDC) Ltd.</td>
<td>2013</td>
</tr>
<tr>
<td>2</td>
<td>Chilla Hydro Power Plant</td>
<td>2013</td>
</tr>
<tr>
<td>3</td>
<td>Tehri Hydro Development Corporation (THDC) Ltd.</td>
<td>2015</td>
</tr>
<tr>
<td>4</td>
<td>Bharat Heavy Electricals Ltd. Haridwar</td>
<td>2015</td>
</tr>
<tr>
<td>5</td>
<td>Khodri Power House &amp; Chihbro Power House, Dehradun under UJVN Ltd.</td>
<td>2015</td>
</tr>
</tbody>
</table>
The Department of Mechanical Engineering is one of the major departments of the Institute. The department came into existence in 2012 and thereafter has been imparting significant contribution in the growth of the Institute. The Department is fully equipped with latest technology and instruments. It has dedicated faculty having strong command in their specialized areas. The department provides a flexible academic system for the students to opt the subjects of their choice by offering a large number of elective courses in each semester. Presently, the Department of Mechanical Engineering is offering an undergraduate programme (B.Tech), M.Tech Programme in Manufacturing Technology and Machine Design and a Ph.D. Programme.

LABORATORIES
### Faculty Profiles

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Faculty Name</th>
<th>Designation</th>
<th>Specializations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Anshul</td>
<td>Head &amp; Assistant Professor</td>
<td>Design, Smart Structures, Vibrations</td>
</tr>
<tr>
<td>2.</td>
<td>Mr. Vikas Kukshal</td>
<td>Assistant Professor</td>
<td>Advanced Manufacturing Processes, CAD/CAM</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Pawan Kumar Rakesh</td>
<td>Assistant Professor</td>
<td>Polymeric Composite Materials</td>
</tr>
<tr>
<td>4.</td>
<td>Mr. Dungali Sreehari</td>
<td>Assistant Professor</td>
<td>Production Technology, Advanced Manufacturing Processes</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. Hitesh Sharma</td>
<td>Assistant Professor</td>
<td>Composite Materials, Metal Cutting</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. Sudhakar T</td>
<td>Assistant Professor</td>
<td>Two Phase Flow, Heat Transfer, CFD</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Neeraj Kumar Mishra</td>
<td>Assistant Professor</td>
<td>Thermal Engineering</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Yogesh Kumar Prajapati</td>
<td>Assistant Professor</td>
<td>Thermal Engineering</td>
</tr>
<tr>
<td>9.</td>
<td>Mr. Deepak Kumar</td>
<td>Trainee Teacher</td>
<td>Thermal Engineering</td>
</tr>
<tr>
<td>10.</td>
<td>Mr. Gaurav Kumar</td>
<td>Trainee Teacher</td>
<td>Manufacturing Engineering</td>
</tr>
<tr>
<td>11.</td>
<td>Mr. Prashant Tiwari</td>
<td>Trainee Teacher</td>
<td>Design Engineering, Mechanical Vibration</td>
</tr>
</tbody>
</table>

### Members
- Assistant Professor: 08
- Trainee Teachers: 03
- Technical Assistant: 02

### Facilities

1. **Heat Transfer Lab**
   - Refrigeration Test RIG
   - Stefan’s Law Apparatus
   - Cooling Tower Test RIG
   - Pool boiling apparatus.
   - Air conditioning Test RIG
   - Heat Transfer in forced convection
   - Air Duct Test Rig
2. **Applied Thermodynamics Lab**
   - One Cylinder 4 Stroke Diesel Engine Test Rig
   - One Cylinder 4 Stroke Diesel Engine Test Rig 7.5 kw
   - One Cylinder 2 Stroke Petrol Engine Test Rig
   - Single stage Air compressor test Rig
   - Double stage Test Air Compressor
   - Babcock & Wilcox Boiler Model
   - Lancashire Boiler Model
   - Model of 4 Stroke Diesel Engine
   - Model of Fuel Supply system

3. **Fluid Mechanics Lab**
   - Pelton wheel Turbine test Rig
   - Francis Turbine test Rig
   - Gear Pump Test Rig
   - Bernoulli’s Theorem kit
   - Corioli’s force Demonstration
   - Reynolds’s Apparatus
   - Losses in Pipes Apparatus
   - Orificemeter, Venturimeter, Rotameter Apparatus
   - Free and Forced Vortices Apparatus
   - Models of Different types of pumps and turbines

4. **Solid Mechanics Lab**
   - Brinell hardness tester
   - Universal Testing Machine
   - IZod test, Charpy test
   - Hook’s Law apparatus
   - Tri filler suspension
   - Deformation of the straight beam apparatus
   - Deformation of curved beam apparatus

5. **Kinematics of Machine Lab**
   - Static and Dynamic Balancing
   - Whirling of Shafts Apparatus
   - Motorized Gyroscope
   - V Belt drives Model.
   - Double hook Coupling
   - Double hook Coupling
   - Winch Apparatus
   - Combined Flat & ‘V’ belt friction Apparatus
- Worth Quick Return Mechanism
- Smart Structure Instrument
- Vibration Shakers
- Universal Vibration Apparatus

6. **Computer Aided Design Lab**
   - Auto Cad Software
   - ANSYS v 18.0 Software
   - CATIA v R6 Software

7. **Measurement Lab**
   - Microscope.
   - Sine Bar, Slip Gauges
   - Vernier height gauge
   - Micrometer
   - Vernier caliper
   - Go No-Go gauges
   - LVDT apparatus
   - Microwave for material processing

8. **Machine Tool Lab**
   - Lathe Machine
   - Milling Machine
   - Wood Turning machine
   - Shaper Machine
   - Surface Grinder
   - Drilling Machine
   - Hydraulic Punching Machine
   - Fly Press

**Research in Department**
- Total number of publications in International Journals (Last three years): 13
- Total number of publications in International conferences (Last three years): 14

- Six students are pursing Ph.D. in the Department of Mechanical Engineering. Among six Ph.D. students, 03 are Full-time and 3 are Part-time students.
Students Projects
The students are motivated by involving them in the projects related to various fields of Mechanical Engineering like Kinematics links, Heat Transfer, Robotics, Engines etc. Department offers minor and major projects in various research and industry oriented topics to students. Under the close mentorship of department faculty members, students learn to use the application of theory for solution of practical problems.

The details of the selected Projects completed by the students are as follows:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Project Name</th>
<th>Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Stirling engine</td>
<td>Dr. Pawan Kumar Rakesh</td>
</tr>
<tr>
<td>2</td>
<td>Pedal Power hack saw</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Mini Wind Turbine</td>
<td>Mr. Hitesh Sharma</td>
</tr>
<tr>
<td>4</td>
<td>Submarine</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Heron’s Steam Engine</td>
<td>Mr. Vikas Kukshal</td>
</tr>
<tr>
<td>6</td>
<td>Representation of Mathematical function through mechanism</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Copying mechanism</td>
<td>Mr. D.Sreehari</td>
</tr>
<tr>
<td>8</td>
<td>Design and fabrication of Micro channels for heat transfer applications</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Humanoid Robot</td>
<td>Dr. Anshul</td>
</tr>
<tr>
<td>10</td>
<td>Mechanism based walking machine</td>
<td>Mr. T. Sudhakar</td>
</tr>
<tr>
<td>11</td>
<td>Thermal stress analysis of piston</td>
<td>Dr. Yogesh prajapati</td>
</tr>
<tr>
<td>12</td>
<td>Design analysis of air preheater using bell delawar method</td>
<td></td>
</tr>
</tbody>
</table>

Technical Activities
Department students actively participate in technical activities organized within the Institute and also at National Level technical festivals like Inter NIT Tech Meet. In addition, the department students are working on:

- Designing and fabricating of Racing car of SUPRA-2016 (SAE India)
- Developed a balloon forming device for Student Competition at NIT Uttarakhand
Industrial Visits
To provide the better learning experience to students, department also offers industrial visits to students. Students are allowed to see the application of various engineering concepts at the ground level and interaction with senior officials and engineers make them more actively concerned about their responsibility and possible work profile of tomorrow. The B. Tech students of the Department had visited:

- Mahindra & Mahindra Ltd., Haridwar
- Volkswagen Ltd., Pune
- Mercedes Benz Ltd., Pune

B.Tech Projects
- To make Water rocket with power booster
- Sterling Engine
- Herons Steam Engine
- Gear Reciprocator
- Buoyancy shoe
- Copying Mechanism
- Mini Wind Turbine
With a continued commitment towards quality education and training, the department of Sciences and Humanities is persistently striving to reach the ultimate goal of international standards. The Department, since its inception in 2010, has vouched for the quality teaching and research. It offers various courses that strengthen students’ unique needs to hone their skills in professional front. The department has faculty members from multiple disciplines who are committed to teach, train and reshape students’ faculty of mind by following various teaching methodologies. The department has started Ph. D. program in various subjects.

LABORATORIES

The department has full-fledge laboratory for Physics and Chemistry practicals. The labs are equipped with modern instruments and Technology.

Members
Assistant Professor: 11
Technical Assistant: 01
Laboratory Assistant:

PHYSICS LABORATORY
CHEMISTRY
LANGUAGE LABORATORY

English Language lab is a platform which offers an assortment of tools to sharpen spoken skills of students. It caters to students’ unique needs by which each student feels confident, secure and appropriately challenged.
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Faculty Profile</th>
<th>Designation</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Indrajit M. Nagpure</td>
<td>Head &amp; Assistant Professor</td>
<td>Material Science and Optics (Solid state lighting, LED, OLED, TLD and Solar Cells).</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Manvendra Singh Khatri</td>
<td>Assistant Professor</td>
<td>Materials Science and Experimental Condensed Matter Physics (Magnetic Materials and Electrodeposition).</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Saroj Ranjan De</td>
<td>Assistant Professor</td>
<td>Total Synthesis of Bioactive Natural Products, Development of New Methodology Reactions and Medicinal Chemistry.</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Pankaj Kandwal</td>
<td>Assistant Professor</td>
<td>Separation science, Membrane based separation technologies, Supramolecular chemistry, Organic synthesis</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Dheerendra B. Singh</td>
<td>Assistant Professor</td>
<td>Nonlinear wave propagation, Quasilinear hyperbolic system of conservation laws, Shock wave.</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Kuldeep Sharma</td>
<td>Assistant Professor</td>
<td>Computational Mechanics, Fracture Mechanics</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Nitin Sharma</td>
<td>Assistant Professor</td>
<td>Molecular Dynamics, Computational Chemistry, Computational Mathematical Biology, Calculus</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Ajay K. Chaubey</td>
<td>Assistant Professor</td>
<td>Literature of Indian Diaspora, Postcolonial Literature, Caribbean Fiction, Film Studies and Indigenous Literature.</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. Renu Bhadola Dangwal</td>
<td>Assistant Professor</td>
<td>20th Century Literature and Criticism.</td>
</tr>
<tr>
<td>10.</td>
<td>Dr. Anirban Mukherjee</td>
<td>Assistant Professor</td>
<td>Urban Sociology, Migration</td>
</tr>
<tr>
<td>11.</td>
<td>Dr. Anupam Yadav</td>
<td>Assistant Professor</td>
<td>Soft Computing, Optimization, Evolutionary Computation</td>
</tr>
</tbody>
</table>
Facilities

Laboratories
Physics and Chemistry laboratories are established in 2010 for 1st year B.Tech courses and are fully functional. Following experimental facilities are available for B.Tech students.

Equipments in Physics Lab
- Compact Newton’s Ring
- Steward Tangent Galvanometer
- Plank Constant By Photo Cell
- Polarimeter
- Standard Spectrometer for Determination of Wavelength of Sodium Light
- Semiconductor Zener Characteristic Apparatus
- Work Function of Diode Apparatus
- Ultrasonic Waves Generators
- CdS Cell
- Hall Effect Experiment Kit
- Four Probe Experiment Set-up
- Potentiometer 10/4 wire
- Platinum Resistance Thermometer
- Copper Constant Thermocouple
- Sonometer
- Solar Cell Experimental Kit
- e/m experimental set up
- Biprism Experimental Set-up
- Semiconductor Laser 5 mW with Optical Bench
- He-Ne Laser Source Complete Kit for Determination of Wavelength

Equipments in Chemistry Lab
- Compact Newton’s Ring
- Abel’s Flash Point Apparatus
- Burette Stand
- Burette Stand with Clamp
- Beranger Balance
- Condenser Clamp
- Conductivity meter
- Electronic Balance (0.1mg citizen)
- Heating Mental
English Language Lab

English Language lab is a platform which offers an assortment of tools to sharpen spoken skills of students. It caters to students’ unique needs by which each student feels confident, secure and appropriately challenged. Facilitator(s) research, locate and incorporate a variety of resources to accommodate students via audio-visual, tactile and kinesthetic methods. The English language communication skills laboratories course is a great booster for the students. Language labs focuses particularly to the needs of both the learners and the teachers. It provides the much needed help and assistance to both the students and faculty members. Language lab provides a platform where teachers can try experiments on themselves and the learners as well.

- The lab is fully interactive with teacher to learner, learner to teacher and learner to learner interactions.
- Teachers can address all learners at a time or to a specific learner. A learner can individually communicate with the teacher to ask a question or to clarify a doubt. Intra-class communication is done in the target language.
- Language lab creates equal opportunity for each student to hear and to be heard by the instructor. Since all the computers are interconnected in the language lab, all the student get equal chance to seek the attention of the teacher irrespective of where they are seated.
- Volume and speed of the course can be well adjusted as per the comfort of student. He/she can even refer back to it wherever needed.
- It helps students to learn pronunciation, stress accent, intonation, rhythm, and all other basics of the phonetics of a language. It is the best method to learn phonetics.
- The learners have freedom to record and play back their own voice recordings, assess them and store it and then re-play it whenever needed. They can perform personal assessments; interact with teacher and fellow students in condition of any doubt.
• Audio files can also be transferred to student terminal for on-line listening. Option like transcribing the audio material to cross check the effectiveness of their listening can also be given.
• Introduction of earphone/earphone/microphone provides a student his/her privacy that creates a better environment for their speaking practice without hesitation.
• The students can also do a periodical self-evaluation to measure the progress as well as evaluate his/her language with that of the expert.
• The Lab software is more attention enthralling for the students, where they are engaged with individual systems.
• The language laboratory also provides the facilities to conduct paperless examinations and online course.
• Multimedia Language lab encourages independent learning because students can access to resources beyond the limits of time-table.

Research
• Four students are pursuing PhD in the Department of Sciences & Humanities.
• Dr. Indrajit M. Nagpure, Assistant Professor (Physics) has received a research grant of Rs. 22.49 lacs from Department of Science and Technology (DST) Govt. of India.
• Dr. Saroj Ranjan De, Assistant Professor (Chemistry) has received a research grant of Rs. 23.7 lacs from the Department of Science and Technology (DST) Govt. of India.
• Total number of publications in International Journals (Last three years): 17
• Total number of publications in International conferences (Last three years): 21
• Book published: 05 (One is published as a chapter)
LIBRARY AND INFORMATION CENTRE

The Institute Library has a rich collection of books on Engineering, Science and Technology, Humanities and Social Sciences and also a good collection of English and Hindi Fiction. The Institute Library has four stack rooms with subject-wise arrangement of books on the shelves according to the Universal Decimal Classification Scheme. The Institute Library has one reading room which remains open 24x7 for the students and the staff members.

- The Institute Library remains open on all days of the year except on holidays of National and Religious importance (i.e. Republic Day, Holi, Independence Day, Gandhi Jayanti, Diwali and dusshera).
- Institute library opens from 08:00 am to 08:00 pm (i.e. Monday-Sunday).
- The Institute Library houses a total collection of over 35,000+ printed books (with more than 7000 titles) which includes Text Books and Reference Books on various subjects. Institute Library also contains Magazines, Newspapers, CDs/DVDs, Standards, NPTEL Lectures, Competitive Exam books, Gifted Books, etc.
- The Institute Library has subscribed e-books (i.e. 26,457 titles) and e-databases i.e. ScienceDirect, IEEE Xplore, ASME Journals and ASCE Journals.
- Institute Library uses LSEase software package which is an integrated multi-user library management system that supports all In-house activities of the library.
- Institute Library has a WebOPAC facility to search all bibliographic records of library.
- The Institute Library is connected to the campus LAN and Wi-Fi facility. The library server works under Windows 7 environment.
- The Institute Library generates Library Report every month.
- Institute Library also provides Book Bank facility, News clipping services, e-Newspaper reading, orientation program, e-mail alert, etc. to its users.

Staff Members
Library I/c: 01
I/c Assistant Librarian: 01
Technical Assistant: 01
Technician: 02
MTS: 02
Others: 03
Institute conducted its First Convocation on 14th March 2016. Total 128 students received B.Tech. degrees who graduated in the year 2014 and year 2015. 

Shri K. Ravi Kumar, Ex-Chairman and Managing Director, BHEL was the chief guest of the first convocation.
The Institute provides a homely environment for students. The Institute has adopted a principle of "Homes away from Home". Hostels have been provided for the students with all the necessary facilities. The Institute provides accommodation facility for 836 students in the campus. There are five boys and two girl's hostel.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Hostel</th>
<th>Rooms</th>
<th>No. of seats</th>
<th>Strength of the Hostel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NITUK Hostel 1 (Boys)</td>
<td>22</td>
<td>4/6 Seater</td>
<td>92</td>
</tr>
<tr>
<td>2</td>
<td>NITUK Hostel 2 (Boys)</td>
<td>24</td>
<td>4/6 Seater</td>
<td>142</td>
</tr>
<tr>
<td>3</td>
<td>NITUK Hostel 3 (Girls)</td>
<td>24</td>
<td>6 Seater</td>
<td>144</td>
</tr>
<tr>
<td>4</td>
<td>NITUK Hostel 4 (Boys)</td>
<td>18</td>
<td>4 Seater</td>
<td>72</td>
</tr>
<tr>
<td>5</td>
<td>NITUK Hostel 5 (Boys)</td>
<td>36</td>
<td>6 Seater</td>
<td>216</td>
</tr>
<tr>
<td>6</td>
<td>NITUK Hostel 6 (Girls)</td>
<td>14</td>
<td>4 Seater</td>
<td>56</td>
</tr>
<tr>
<td>7</td>
<td>NITUK Hostel 7 (Boys)</td>
<td>19</td>
<td>6 Seater</td>
<td>114</td>
</tr>
</tbody>
</table>

- All hostels have been kept under surveillance by security cameras
- Hostel security has been provided 24×7
- Matron/Nurse stays in girls hostel for 24 hours
- Clean and RO filtered water supply is ensured in the hostel premises
- Cleanliness and hygienic environment is maintained in regular way
- Wi-Fi facility is provided in the hostel for Internet access
- Mess facility is provided to the students of the Institute

Hostel Authority

Chief Warden: 01
Warden: 02
Associate Warden: 08
INSTITUTE BROCHURE 2018

MES

“Togetherness is Always a Pleasure”

Institute provides combined mess facility to students. Special care is taken to provide clean and hygienic surrounding in the premises of the mess. Food quality and water purity is checked regularly by concerned authorities from time to time. Regular meetings are conducted with students’ representatives at definite intervals to ensure students’ satisfaction.

LEARNING THROUGH ENJOYMENT

The budding minds of students need proper nourishment. Keeping this in mind, various clubs have been started to provide a platform for grooming their creative talents. A taste for Music, Dance, Movies, Photography, Creative writing, Astronomy, Robotics is inculcated in students through different clubs. This helps in blooming the personality of the students.
COUNCIL OF STUDENT ACTIVITIES (CSA)

The Council provides students of NIT Uttarakhand opportunities for involvement, leadership experience and the ability to create fun and exciting programs that enhance the energy of campus life. On April 10, 2016 the fourth general elections were held and Mr. Anurag Kumar was elected as the Vice-President of CSA. The CSA council plays significant role in several academic and extra-curricular activities of students.

EVENTS ORGANIZED BY CSA

Various events have been organized in the Institute time to time. These events play an important role in boosting the creativity and imaginative strength of students by engaging them in variety of events (technical, social as well as cultural):

- Fresher’s Evening
- Department Gathering
- Institute Gathering
- Techno-Cultural Fest
- Institute Day
- Inter Year Cultural Competition
- Sports Competitions
- Celebration of various days like Dahi Handi, Ganesh Puja, etc.
- Farewell Party
CLIFFESTO - 2016

The Annual Techno-Cultural Event of the Institute, “Cliffesto” was organized between 19th -21st February, 2016. However, various pre-fest events like the ‘Blood Donation Camp’ and ‘Cleanliness Drive’ were organized a week prior to the actual event. Cliffesto was inaugurated on the evening of 18th February, 2016 with lamp lightening ceremony in the esteemed presence of Honourable Director, Registrar, Associate Dean (Student Welfare) and Faculty members. The evening was studded with some stupendous performances from the students and the refreshing performance by “Keechad Band”.

The first day of the festival witnessed many Cultural events like Solo singing, Solo dance, Street play, Poetry Competitions and Technical events in the form of MATLAB Workshop, Debugging, Lan Gaming, Robokick. The evening had wonderful performance in the form of BAND WARS, in which different bands performed. The second Day was full of mesmerizing events like PIIZAZ (Fashion show), Duet singing, Standup Comedy, Group Dance, Mimicry, Rafting workshop.

Technical events like RASBERRY PI workshop, Engine assembly workshop, Code clash, Robo war were organized with a huge participation of students. However the event of the day was the EDM night by Sunburn.

The final day had Technical events like Grid Runner, RoboCoursa, Reincarnation and they were followed by finals of some of the cultural performances like Solo Singing, Solo Dance, Street Play and Pizazz (Fashion Show) with prize distribution ceremony.
Besides, it is a matter of great pride to report that for the first time in Uttarakhand, a college festival having an unique event like Weapon Display Exhibition, which was organized by the Sixth Battalion of Kumaon Regimen.

The final closing night witnessed the heart throbbing performance of none other than the king of Desi Rap “BOHEMIA”. With more than 1300 students registered the festival, Cliffesto 2016 was way bigger and successful than ever before.

**ON PLAYING GROUND**

The motto of the NIT Uttarakhand is “Sports for All, All for Sports”

One of the specialities of the Institute is that it gives utmost importance to games and physical activities to strengthen its students physically as well as mentally. Student life on playing ground is an integral part of Institute’s curriculum.
- Physical education has been made compulsory for the first year students.
- Students are encouraged to participate in Inter-NIT and other open competitions.
- There are various indoor and outdoor sports facilities, such as, Volleyball, Badminton, Basketball, Football, Cricket, Table–Tennis, Chess, Carom, gymnasium and many more.
- Sports arena has well-equipped facilities so that the students can practice at night also.
Institute organizes regular intramural sports activity of various games and sports.
Institute organizes inter NIT & other open tournaments in various games and sports from time to time.
Institute teams play practice matches with local bodies such as SSB academy, HNBGU, Polytechnic, ITI & local clubs on regular basis.
Sports meet, Departmental & Institutional gathering are the mega sports festival in our institute.
Institute has the facility of Adventurous sports activities like river rafting, kayaking and ice skiing and organizes such activities every year (river rafting, kayaking in Alakhand River and ice skiing at Auli & Chopta).
Institute organize Himalayan Expedition tour and adventure week on regular basis with the help of Kumaon Regiment Rudraprayag and S.S.B Academy Srinagar.
The Institute has a Football & Cricket ground near the ITI Campus with the facility of nets for Cricket practice.
The Institute won Silver medal in All India Inter NIT Volleyball Tournament 2015 organized by NIT Kurukshetra.
The Institute won Gold medal in open basketball Tournament 2015 organized by S.S.B Academy Srinagar.
24 teams of NITUK participated in Five a side Flood Light Football Tournament, 10 teams of NITUK in Pro Kabaddi league, 32 teams of NITUK in Mega Cricket League and 08 teams of different Institute participated in Open volleyball tournament organized by NIT Uttarakhand.
We were Runner-Up in Staff Cricket Tournament 2013 & 2015 organized by NIT Uttarakhand.
The Training & Placement Cell of NIT Uttarakhand provides the platform for the placement of students passing out from the Institute as well as collaboration with leading Organizations & Institutes in setting up of internship and training program for the students. The Training & Placement (T&P) Cell provides the infra-structural facilities to conduct interviews. T&P Cell is trying to provide maximum opportunities to students so that they can choose the right employer where they can nourish their technical knowledge and fulfill their job satisfaction.

Facilities provided by Institute to the Companies/Industries

- The institute has constituted a Training and Placement Cell (T&P cell).
- Institute provides Transportation from nearest airport (Dehradun) and railway stations (Haridwar, Dehradun) to the institute and accommodation in the city.
- Placement coordinators to assist the recruiters to conduct placement process.
- Computer Labs with internet facilities to conduct online tests.
- Conference Halls for interview and group discussions.
- Rooms with internet connectivity, LCD projectors, audio system, others necessary facilities for conducting pre-placement talks.
- Video Conferencing and Interview facility is also provided by the Institute.
- Internet, Fax, Copier, Phone, Printing Facilities for the visiting team.

Facilities have also been extended to facilitate the recruiters by

- Arranging the process at other locations such as Delhi, Dehradun, Haridwar, etc.
- Providing required facilities at such locations for easy access.

Training & Internship
Total 31 students got placed this year. The average package is ₹3.95 lacs per annum (CTC).

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Student Name</th>
<th>Branch</th>
<th>Name of the Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Abhinav Kumar</td>
<td>CSE</td>
<td>Philips &amp; Wipro</td>
</tr>
<tr>
<td>2.</td>
<td>Chinmay Jain</td>
<td>CSE</td>
<td>Debug Factory</td>
</tr>
<tr>
<td>3.</td>
<td>Dinkar Bisht</td>
<td>CSE</td>
<td>Polaris</td>
</tr>
<tr>
<td>4.</td>
<td>Deepak Kumar Mishra</td>
<td>CSE</td>
<td>Ramco</td>
</tr>
<tr>
<td>5.</td>
<td>Abhay Atrish</td>
<td>CSE</td>
<td>Ramco</td>
</tr>
<tr>
<td>6.</td>
<td>Anuj Yadav</td>
<td>CSE</td>
<td>Ramco &amp; Infosys</td>
</tr>
<tr>
<td>7.</td>
<td>Ankit Singh</td>
<td>MEC</td>
<td>Ramco</td>
</tr>
<tr>
<td>8.</td>
<td>Deepak Uniyal</td>
<td>CSE</td>
<td>Wipro &amp; Venera Tech.</td>
</tr>
<tr>
<td>9.</td>
<td>Pankaj Bhilingswal</td>
<td>CSE</td>
<td>Newgen Payment</td>
</tr>
<tr>
<td>10.</td>
<td>Lovepreet Singh</td>
<td>CSE</td>
<td>Newgen Payment</td>
</tr>
<tr>
<td>11.</td>
<td>Abhishek Pratap Singh</td>
<td>CSE</td>
<td>Newgen Payment</td>
</tr>
<tr>
<td>12.</td>
<td>Debapriya Sen</td>
<td>CSE</td>
<td>Wipro</td>
</tr>
<tr>
<td>13.</td>
<td>Deepti Chamoli</td>
<td>CSE</td>
<td>Wipro</td>
</tr>
<tr>
<td>14.</td>
<td>Ravi Kant Verma</td>
<td>CSE</td>
<td>Wipro</td>
</tr>
<tr>
<td>15.</td>
<td>Padigapati Venkata</td>
<td>CSE</td>
<td>Wipro</td>
</tr>
<tr>
<td>16.</td>
<td>Pulankit Panjwani</td>
<td>ECE</td>
<td>Cyber Space &amp; Venera Tech.</td>
</tr>
<tr>
<td>17.</td>
<td>Saurabh Kumar</td>
<td>ECE</td>
<td>Wipro</td>
</tr>
<tr>
<td>18.</td>
<td>Ashish Kamboj</td>
<td>ECE</td>
<td>Wipro</td>
</tr>
<tr>
<td>19.</td>
<td>Rajat Kapur</td>
<td>ECE</td>
<td>Wipro</td>
</tr>
<tr>
<td>20.</td>
<td>Nitin Kumar</td>
<td>EEE</td>
<td>Wipro &amp; Scope Telecom</td>
</tr>
<tr>
<td>21.</td>
<td>Nikhil Nigam</td>
<td>EEE</td>
<td>Wipro</td>
</tr>
<tr>
<td>22.</td>
<td>Rohitash Singh</td>
<td>MEC</td>
<td>Wipro</td>
</tr>
<tr>
<td>23.</td>
<td>Shubham Saxena</td>
<td>MEC</td>
<td>Wipro</td>
</tr>
<tr>
<td>24.</td>
<td>Lokesh Yadav</td>
<td>EEE</td>
<td>Scope Telecom</td>
</tr>
<tr>
<td>25.</td>
<td>Amit Kumar</td>
<td>EEE</td>
<td>Scope Telecom</td>
</tr>
<tr>
<td>26.</td>
<td>Apoorv Deval</td>
<td>ECE</td>
<td>Venera Tech</td>
</tr>
<tr>
<td>27.</td>
<td>Satvinder Singh</td>
<td>ECE</td>
<td>Scope Telecom</td>
</tr>
<tr>
<td>28.</td>
<td>Ravi Ranjan</td>
<td>ECE</td>
<td>Scope Telecom &amp; Infosys</td>
</tr>
<tr>
<td>29.</td>
<td>Ajay Kumar</td>
<td>CSE</td>
<td>Venera Tech</td>
</tr>
<tr>
<td>30.</td>
<td>Ravi Mall</td>
<td>CSE</td>
<td>Grid Infocom</td>
</tr>
<tr>
<td>31.</td>
<td>Tumul Kumar</td>
<td>CSE</td>
<td>Venera Tech.</td>
</tr>
</tbody>
</table>
The expert lectures are organized in the Institute from time to time, the detail of which is as following:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Expert Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. K Chanrasekaran</td>
<td>NITK Surathkal</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. R. K. Agrawal</td>
<td>JNU, New Delhi</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Aditi Sharan</td>
<td>JNU, New Delhi</td>
</tr>
<tr>
<td>4.</td>
<td>Prof. J.K. Chhabra</td>
<td>NIT Kurukshetra</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. B. Senthil Arasu</td>
<td>NIT Tiruchirappalli</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. N. Thamaraiselvan</td>
<td>NIT Tiruchirappalli</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Samson Mathew</td>
<td>NIT Tiruchirappalli</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Jeyabalan</td>
<td>NIT Tiruchirappalli</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. S. Saravanan</td>
<td>NIT Tiruchirappalli</td>
</tr>
<tr>
<td>10.</td>
<td>Prof G. Swaminathan</td>
<td>NIT Tiruchirappalli</td>
</tr>
<tr>
<td>11.</td>
<td>Prof CSRK Prasad</td>
<td>NIT Warrangal</td>
</tr>
<tr>
<td>12.</td>
<td>Prof. Dwarakish G S</td>
<td>NIT Surathkal</td>
</tr>
<tr>
<td>13.</td>
<td>Dr. Sudeb Dasgupta</td>
<td>IIT Roorkee</td>
</tr>
<tr>
<td>14.</td>
<td>Dr. Mohammad Arif</td>
<td>NIT Kurukshetra</td>
</tr>
<tr>
<td>15.</td>
<td>Dr. P. Palanisamy</td>
<td>NIT Tiruchirappalli</td>
</tr>
<tr>
<td>16.</td>
<td>Prof. M. V. Kartikeyan</td>
<td>IIT Roorkee</td>
</tr>
<tr>
<td>17.</td>
<td>Prof. Debashish Ghosh</td>
<td>IIT Roorkee</td>
</tr>
<tr>
<td>18.</td>
<td>Prof. M.P. Maiya</td>
<td>IIT Madras</td>
</tr>
<tr>
<td>19.</td>
<td>Prof. Pradeep Kumar</td>
<td>IIT Roorkee</td>
</tr>
<tr>
<td>20.</td>
<td>Prof. S.C. Sharma</td>
<td>IIT Roorkee</td>
</tr>
<tr>
<td>21.</td>
<td>Prof. Gangadharan K V</td>
<td>NIT Surathkal</td>
</tr>
<tr>
<td>22.</td>
<td>Dr. Akshay Dwivedi</td>
<td>IIT Roorkee</td>
</tr>
<tr>
<td>23.</td>
<td>Dr. Arup Kumar Das</td>
<td>IIT Roorkee</td>
</tr>
<tr>
<td>24.</td>
<td>Dr. S Prasanna Venkatesan</td>
<td>NIT Tiruchirappalli</td>
</tr>
<tr>
<td>25.</td>
<td>Dr. J. Jerald</td>
<td>NIT Tiruchirappalli</td>
</tr>
<tr>
<td>26.</td>
<td>Dr. A. S. Junghare</td>
<td>VNIT Nagpur</td>
</tr>
<tr>
<td>27.</td>
<td>Dr. K. L. Thakre</td>
<td>VNIT Nagpur</td>
</tr>
<tr>
<td>28.</td>
<td>Dr. B. S. Umare</td>
<td>VNIT Nagpur</td>
</tr>
<tr>
<td></td>
<td>Dr. P. K. Jha</td>
<td>IIT Roorkee</td>
</tr>
<tr>
<td>29.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30.</td>
<td>Dr. I. V. Singh</td>
<td>IIT Roorkee</td>
</tr>
<tr>
<td>31.</td>
<td>Dr. Manabendra Pathak</td>
<td>IIT Patna</td>
</tr>
<tr>
<td>32.</td>
<td>Dr. O. P. Khatri</td>
<td>IIP Dehradun</td>
</tr>
</tbody>
</table>
Details of the projects sanctioned are:

- Dr. I. M. Nagpure, Assistant Professor (Physics) in Department of Sciences and Humanities is sanctioned ₹22,49,600 by DST (SERB) for the project entitled “Synthesis and development of polymeric compounds (phenylated quinolone based) for OLED (organic light emitting devices) applications”.
- Dr. S. R. De, Assistant Professor (Chemistry) in Department of Sciences and Humanities is sanctioned ₹23,70,000 by DST (SERB) for the project entitled “Regioselective synthesis of fused polyaryl compounds via nucleophilic addition to borylbenzenes: application to the synthesis of topopyrone C & D”.
- Department of Electronics Engineering is sanctioned a project entitled “Special man power development programme chip to system design” which is worth ₹1,10,00,000 by DeitY.

Successfully organized a 2 day workshop on NMEICT Awareness on “Recent Trends in Education System” on 29-30 November 2014.

The Institute is planning to develop e-classrooms and Incubation centre in the campus.

Faculties are encouraged to take industrial consultancy work.

The Institute provides a platform to students for exploring their ideas of Innovation by launching an Inter NIT Student Innovation Competition – 2016 with the first prize of worth ₹1,00,000. Dr. Bharat Jhunjhunwala who was an Assistant Professor of Economics at the Indian Institute of Management, Bangalore and is currently a renowned freelance columnist and consultant to donors and NGOs motivated the students by his mesmerizing talk on “Innovation and its impact”. 54 participants from 16 different NITs participated in the competition. Mr. Raman Verma and Mr. Ghanshayam were given the second prize worth ₹50,000 for their Innovations entitled “BALU: a solar UAV” and “Balloon forming device” respectively. Mr. Parijat Kumar and Mr. Soumyabrata Debnath were given the third prize worth ₹25,000 for their Innovations entitled “Home automation system” and “Personal portable transportation vehicle, the Easeboard” respectively, while Mr. Ghanshayam also got the consolation prize worth ₹10,000 for his Innovation entitled “Udaan”.
COMMUNITY SERVICES

NITUK makes an active effort to generate social consciousness among its students and makes every attempt to ensure that they don’t develop technologically deterministic ideas.

- NITUK has pre-selected a group of 20 villages: Dang, Maletha, Rampur, Ghildiyalgaon, Debli, Naithana, Deoli, Naur, Thapli Cauras, Gorsali, Sankron, Mani, Mangasu, Supana, Sindri, Ranihatt, Dikalgaon, Pokhda, Bhainswada, Manjakor; around Srinagar to implement Unnat Bharat Abhiyaan by facilitating Video learning in local schools, building mobile science laboratories in rural areas, computer awareness programs, generating environmental awareness programs, organizing plantation ceremonies, garbage recycling, rain water harvesting, initiating of medical camps, women’s empowerment programs, yoga camps, etc.

- The students of NIT, Uttarakhand also organized a free medical camp in the Devli village. Dr. Vimal Gusain, physician at the Base Hospital, Srinagar gave a seminar on Swine Flu highlighting its causes and prevention measures.

- Blood Donation Camp is organized every year in the Institute.

- NITUK has been selected as the Nodal Institution to carry out activities under Rashtriya Avishkar Abhiyan, a scheme initiated by Department of School Education and Literacy, for Uttarakhand state. Teams of students were sent to different locations in the Garhwal region for spreading awareness regarding competitive exams and technical education after Class 12th. The event was held on 10th December 2015 which was supported by the Director of the Institute. The places covered were Rudraprayag, Gauchar, Karnprayag, Nandprayag, Alkapuri, Gopeshwar, Chamoli and Guptkashi.
**IMPORTANT CONTACTS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. S.L. Soni</td>
<td>Director</td>
<td>257401</td>
</tr>
<tr>
<td>Col. Sukhpal Singh</td>
<td>Registrar</td>
<td>257402</td>
</tr>
<tr>
<td>Dr. Kranti Jain</td>
<td>Associate Dean (P&amp;D)</td>
<td>257417</td>
</tr>
<tr>
<td>Mr. Prakash Dwivedi</td>
<td>Associate Dean (Exam)</td>
<td>257410</td>
</tr>
<tr>
<td>Dr. A. Mukherjee</td>
<td>Associate Dean (SW)</td>
<td>257413</td>
</tr>
<tr>
<td>Dr. Navjot Singh</td>
<td>Associate Dean (Academics)</td>
<td>257411</td>
</tr>
<tr>
<td>Dr. Pawan Kumar Rakesh</td>
<td>Associate Dean (FW)</td>
<td>257418</td>
</tr>
<tr>
<td>Dr. Abhimanyu Kumar</td>
<td>Associate Dean (R&amp;C)</td>
<td>257416</td>
</tr>
<tr>
<td>Dr. Vineeta Negi</td>
<td>Assistant Registrar (Admin)</td>
<td>257403</td>
</tr>
<tr>
<td>Mr. Jagdeep Singh</td>
<td>Assistant Registrar (Academics)</td>
<td>257404</td>
</tr>
<tr>
<td>Dr. Kuldeep Singh</td>
<td>SASO</td>
<td>257681</td>
</tr>
<tr>
<td>Mr. Devesh Punera</td>
<td>In-charge Training</td>
<td>257656</td>
</tr>
<tr>
<td>Dr. Anupum Yadav</td>
<td>Warden (Boys' Hostel)</td>
<td>257645</td>
</tr>
<tr>
<td>Ms. Ghan Priya Singh</td>
<td>Warden (Girls' Hostel)</td>
<td>257643</td>
</tr>
<tr>
<td></td>
<td>Institute Counselor</td>
<td>257666</td>
</tr>
</tbody>
</table>

**HELPLINE NUMBER:**

- Student Help No. +91-9557750885
- Admission Help No. +91-9557750887
HOW TO REACH

Temporary campus is located in Govt. Polytechnic, Srinagar (Garhwal). Srinagar is 105 Km from Rishikesh on NH-58 heading towards Badrinath (193 Km from Srinagar). The nearest railway station is Rishikesh. Haridwar, one of the major railway station of state, is 130 Km from Srinagar. Nearest airport is situated at Jolly Grant, Dehradun which is 125 Km away from Srinagar. Taxis/Buses are available from Airport as well as the railway station for Srinagar. It takes 4-5 hours to reach Srinagar from Rishikesh.

CONTACT US

National Institute of Technology, Uttarakhand
Temporary Campus- Government Polytechnic,
Srinagar (Garhwal)-246174
Telephone: 01346-257400
Tele-Fax: 01346-251095
E-mail: nituttarakhand@gmail.com

A: Haridwar
B: Srinagar (Garhwal)