राष्ट्रीय प्रौद्योगिकी संस्थान,
उत्तराखण्ड

National Institute of Technology,
Uttarakhand

INSTITUTE BROCHURE 2015

National Institute of Technology
Uttarakhand

Temporary campus
Govt. Polytechnic Institute,
Srinagar (Garhwal), Uttarakhand

CONTENTS

ESTABLISHMENT

National Institute of Technology, Uttarakhand is one among the ten newly sanctioned NITs in 2009. It came into existence in 2010. The Institute is fully funded by Government of India under the Ministry of Human Resource Development (MHRD). At present, the Institute offers full time B. Tech. Program in Computer Science & Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Mechanical Engineering and Civil Engineering with an intake of 60 students in each branch.

CAMPUS

The temporary campus NIT Uttarakhand 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.

NIT Uttarakhand 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.

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 is in process of procuring 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.

GYMNASIUM

"*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.
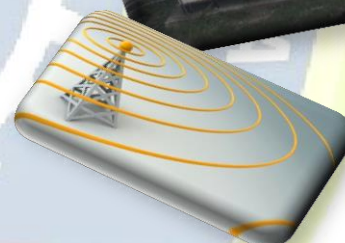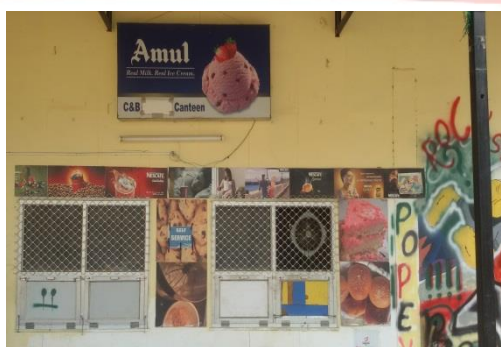
ATM

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.

PERMANENT CAMPUS

The permanent campus of NIT Uttarakhand is being constructed in Sumari, Srinagar (Garhwal), extending over 300 acres of land. Sumari is located at a distance of ~20 Km from Srinagar on approximately 30 minutes travelling time. Hon'ble Chief Minister Shri Harish Rawat laid the foundation stone of permanent campus of NIT Uttarakhand on 19th February 2014.

ADMINISTRATION

The Institute is led by Chairman and Director with the help of 50 Faculty members, 18 Trainee Teachers, 1 Registrar, 4 Officers and 34 Staff members. The Registrar is joining shortly.

CHAIRMAN

Mr. Bhaskar Bhat, Managing Director, Titan Industries Ltd., Bangalore, is the Chairman of the Institute.

DIRECTOR

Prof. H.T. Thorat joined as the Director of the Institute on 01st November 2011. He is a strong advocate of flexibility to students in terms of choice of courses, which suit to their own interests

ACADEMIC STRUCTURE

At present, NIT Uttarakhand offers B. Tech. and Ph.D. programmes. 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 60 students in each branch. Following are the branches for B. Tech. courses:

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

From 2013, Institute has started Ph. D. programme in following branches:

- ✓ Mechanical Engineering
- ✓ Sciences and Humanities (Mathematics, Physics, Chemistry, Social Science, English)

The academic structure of the Institute has many salient features:

- ✓ We have most modern flexible Academic structure
- ✓ 35 % courses are elective
- ✓ Freedom to choose elective courses per semester
- ✓ Freedom to choose sequence of courses
- ✓ 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 in the year 2014 was through Central Seat Allocation Board (**CSAB**). This year Joint Seat Allocation Authority (**JoSAA**) is taking care of admissions. Admissions will be on the basis of All India Rank (AIR) prepared by JoSAA considering score in JEE (Main)-2015 and normalized score of Class 12th or equivalent qualifying exam (60% & 40% weightage, respectively).

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.

- ❖ Special classes are conducted to help weak students in Mathematics and English
- ❖ Teachers help student to overcome their problems in the special tutorial classes.
- ❖ Students get special attention in English Language Laboratory to improve their communication skills.

FACULTY AND STAFF

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	
Assistant Professors	50
Trainee Teachers	18

- 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.

The detailed information about each Department follows in the next section.
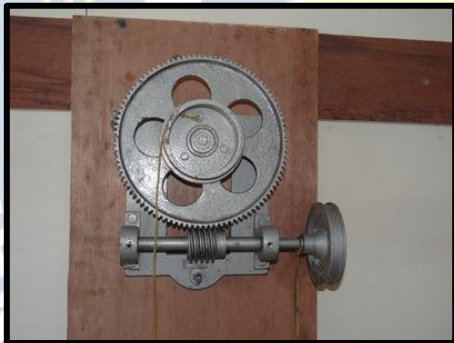
Civil Engineering

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.

LABORATORIES

Members

Assistant Professor: 07
Trainee Teachers: 05
Technical Assistant: 01

- 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

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.

Members
Assistant Professor: 09
Technical Assistant: 01
Technician: 03

Laboratories
1. Programming Lab
2. Software Lab
3. Project Lab
4. MATLAB
5. Networks Lab
6. Linux Lab

Chief Features of the Department
- Young, energetic and enthusiastic faculty
- Latest computer systems with Intel i5 processor, 1TB harddisk and 4 GB Ram.
- Variery of courses in CSE as well as other disciplines
- New laboratories such as Software Lab, Project Lab, Network Lab and Unix/Linux Lab are set up with latest technologies.

Major Facilities in the Department

- **Server:** Server 1: 4-Dell M610 Blade Servers
  Server 2: 4-IBM Blade Servers
- **Network Security:** FORTINET Firewall
- **Internet Connectivity:** 34 Mbps Leased Linefrom BSNL and 1Gbps NKN
- **Wi-Fi Connectivity:** Whole Campus, Departments and Hostels are covered up with Wi-Fi for Internet Connectivity.
- **Security:** Every department and lab is under surveillance 24x7 by CCTV Camera.

- **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.**

Electronics Engineering

Started during 2010-11 session, the department offers B. Tech. programme in Electronics and Communication Engineering. From the very beginning, the ECE department has taken lead in establishing well equipped and modern lab facilities for its students. NIT Uttarakhand has latest National Instruments Lab-View Laboratory set-up. The Lab-View Laboratory consist of National Instruments hardware like Data Acquisition Cards, Signal Conditioning Units along with the latest version of National Instruments Lab-View Software, Vision Development Module, Signal Express, NI Matrix , Lab Windows, Measurement Studio and toolkits etc.
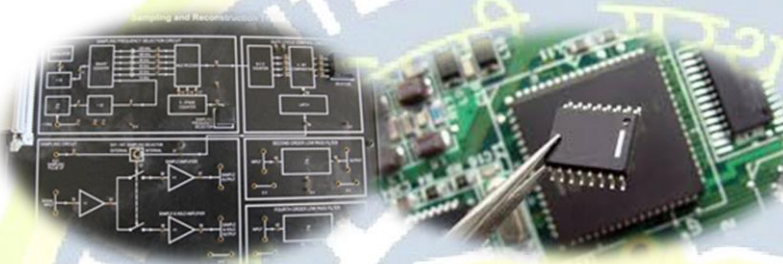
LABORATORIES

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

Members

Assistant Professor: 07
Trainee Teachers: 04
Technical Assistant: 01
Technician: 01

- **EPABX – Internal Telephone Exchange of 168 ports.**

Electrical Engineering

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 Lab
- Electrical Drives Lab
- Control System Lab
- Basic Electrical Circuits Lab
- Switch Gear and Protection Lab
- Power Electronics 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: 09
Trainee Teacher: 04
Technical Assistant: 01
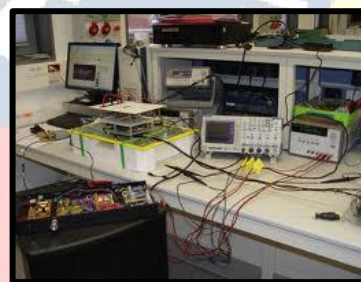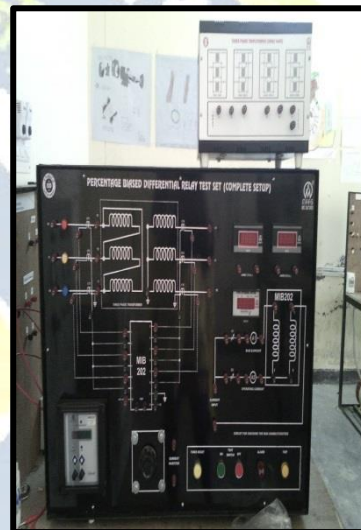
Mechanical Engineering

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.) and a Ph.D. Programme.

LABORATORIES

- Fluid Mechanics Lab
- Applied Thermodynamics Lab
- Heat Transfer Lab
- Mechanical Workshop
- Solid Mechanics Lab
- Machine Tools
- Kinematics of Machine Lab
- CAD Laboratory
- Measurement Lab

Members

Assistant Professor: 07
Trainee Teachers: 05
Technical Assistant: 01

Sciences and Humanities

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: 01

PHYSICS LABORATORY

CHEMISTRY LABORATORY

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.

LIBRARY AND INFORMATION CENTRE

The Library and Information Centre supports the teaching, research and academic programmes of the Institute. All the students, faculty members and employees of the Institute are entitled to make use of the library facilities after taking library membership. Following are salient features of this section:

- The library has Open Access System along with a reading room facility.

- The Library houses a total collection of over 32,000 printed books (with more than 6000 titles) which includes Text Books and Reference Books on various subjects.

- Library is opened on all week days in the year from 8:00 am to 8:00 pm except few holidays of National and Social importance.

- There are total 26,457 titles of e-books available in the library from various renowned publishers which can be accessed 24x7 by the users of the Institute.

- The library uses LSEase software package which is an integrated multi-user library management system that supports all In-house activities of the library.

- The library subscribed the Electronic databases like **Elsevier's Science Direct**, **ASME** Journals and **IEL** (**IEEE+IET**) Online Library in the year 2014 to increase and enhance the quality of academic and research work.

- Total 69 Magazines (including yearbooks) and 09 Newspapers (i.e. 07 daily + 2 weekly) are currently subscribed by the library.

- Library provides e-Newspaper (all India editions) facility via Institute Website.

- **135 NPTEL** video courses available on the FTP server of the Institute which can be accessed via Intranet or Wi-Fi facility by the users.

- Book Bank facility is available in the library for the students of the Institute.

- Library has a WebOPAC facility to search all bibliographic records of library.

STUDENTS' LIFE

IN CAMPUS

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 800 students in the campus. There are six boys and one girls' hostel.

S. No.	Name of Hostel	Rooms	No. of seats	Strength of the Hostel
1	NITUK Hostel 1 (Girls)	22	4/6 Seater	92
2	NITUK Hostel 2 (Boys)	22	4/6 Seater	136
3	NITUK Hostel 3 (Boys)	24	6 Seater	144
4	NITUK Hostel 4 (Boys)	18	4 Seater	72
5	NITUK Hostel 5 (Boys)	36	6 Seater	216
6	NITUK Hostel 6 (Boys)	14	4 Seater	56
7	NITUK Hostel 7 (Boys)	14	6 Seater	84

- 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

**Warden: 03**
Associate Warden: 05

MESS

"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.
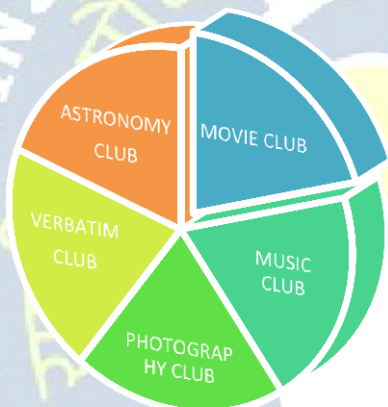
COUNCIL OF STUDENT ACTIVITIES (CSA)

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 12, 2015 the third general elections were held and Mr. Ashish Kamboj 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
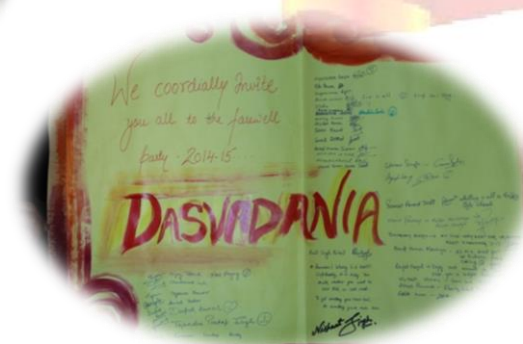
ON PLAYING GROUND

*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 much 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.

- 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 Alakhanda River and ice skiing at Auli).

- The Institute has a new cricket ground near the ITI Campus with the facility of nets for practice.

- The Institute won silver medal in All India Inter NIT Volleyball Tournament 2015 organized by NIT Kurukshetra.

- We were Runner-Up in Staff Cricket Tournament organized by NIT Uttarakhand.

- 20 teams of NIT Uttarakhand participated in the Mega Cricket League organized by NIT Uttarakhand.

TRAINING AND PLACEMENT CELL

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.

Top Recruiter

Total 30 students (47.62% of total strength) got placed this year. The average package is Rs. 3.9 lacs per annum (CTC).

Sr.No	Student Name	Branch	Name of the Company
1	Shubham Goel	ECE	NSE Infotech Services Ltd
2	Rajat Goyal	CSE	NSE Infotech Services Ltd
3	Shyam Choudhary	CSE	NSE Infotech Services Ltd
4	Vijay Kumar Thakur	CSE	Yodlee
5	Ravi Singh Shekhawat	CSE	Yodlee
6	Pranjal Bahuguna	CSE	Ramco
7	Ravish R. Pillai	CSE	Ramco
8	Diksha	CSE	Ramco
9	Kumar Shubham	ECE	Ramco
10	Ritesh Kumar Yadav	ECE	Ramco
11	Nishant Singh	ECE	Ramco
12	Sumit Dobhal	ECE	Ramco
13	Akanksha Joshi	ECE	Ramco
14	Chandramauli Singh	EEE	Ramco
15	Ayush Garg	ECE	Mu-Sigma
16	Ashwani Kumar Sharma	ECE	Nucleus Software
17	Rajat Kumar	ECE	Nucleus Software
18	Ajay Sharma	EEE	Infosys
19	Suresh Kumar Kumawat	EEE	Infosys
20	Akshay Kumar	CSE	Infosys
21	Anup Kumar Mourya	CSE	Infosys
22	Gomaram Sandeep Reddy	CSE	Infosys
23	Rajat Aggarwal	CSE	Infosys
24	Tejaswee Panwar	CSE	Infosys
25	Anuja Singh	ECE	Infosys
26	Arvind Kumar Jaiman	ECE	Infosys
27	Arvind Yadav	ECE	Infosys
28	Anshu Bagherwal	CSE	Venera Technologies
29	Vaibhav Singhal	CSE	Venera Technologies
30	Manmendra Pal Singh	EEE	Career Blitz

IMPORTANT CONTACTS

Name	Designation	Contact
Dr. I. M. Nagpure	Associate Dean (P&D)	01346-257417
Dr. M. S. Khatri	Associate Dean (Exam)	01346-257416
Dr. A. Mukherjee	Associate Dean (SW)	01346-257415
Dr. Aditya Kumar Anupum	Associate Dean (Academics)	01346-257532
Mr. Saumendra Sarangi	Associate Dean (FW)	01346-257477
Mr. Navjot Singh	Associate Dean (R&C)	01346-257563
Dr. M. S. Khatri	HOD (S&H)	01346-257416
Dr. Pawan Kumar Rakesh	HOD (MEC)	01346-257441
Mr. Nitin Kumar	HOD (CSE)	01346-257561
Mr. Prakesh Dwivedi	HOD (EEE)	01346-257471
Mr. Santosh Kumar Bhagat	HOD (ECE)	01346-257501
Mr. Shashi Narayan	HOD (CIV)	01346-257531
Dr. Gareema Sanaman	Assistant Librarian	01346-257651
Dr. Kuldeep Singh	SASO	01346-257681
Dr. Apurba Mandal	In-charge T&P	01346-257656
Dr. Kuldeep Sharma	Warden (Boys' Hostel)	01346-257644
Mr. Prakash Dwivedi	Warden (Boys' Hostel)	01346-257471
Dr. Renu B. Dangwal	Warden (Girls' Hostel)	-
Dr. Ashwini K. Yadav	Associate Warden (Boys' Hostel)	01346-257442
Dr. Pankaj Kandwal	Associate Warden (Boys' Hostel)	01346-257647
Dr. Nitin Sharma	Associate Warden (Boys' Hostel)	01346-257643
Dr. D. B. Singh	Associate Warden (Boys' Hostel)	01346-257646
Mrs. Mitali Halder	Associate Warden (Girls' Hostel)	01346-257567
Dr. Vineeta Negi	Assistant Registrar (Admin)	01346-257403

HELP LINE NUMBER:

Student Help No.   +91-9557750885
Admission Help No.   +91-9557750886

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.

A: Haridwar
B: Srinagar (Garhwal)

CONTACT US

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