Placement Brochure

National Institute of Technology Sikkim

An Institute of National Importance
Under MHRD, Government of India

National Institute of Technology Sikkim

keep moving...

B.Tech 2011-2015 Batch

Contents

From The Director's Desk

The fourth batch of B.Tech and the first batch of M.Tech students of National Institute of Technology Sikkim are about to make their foray in the professional arena. NIT Sikkim, being an Institute of National Importance envisages to contribute significantly to the National and Global development through pursuit of excellence in technical education, research, consultancy and also in other fields to realise the potential of excellent extracurricular talents some of them have demonstrated. While coping with the odds associated with a young and vibrant institute, the faculty and students have not compromised with the academics. Beyond everything, at NIT Sikkim the students are nurtured as "Thinking Engineers", thinking for doing something holistically meaningful. If exploited, they are ready to do things much beyond mere routine service providing.

Our students were prelude to the world of placements right from the establishment of our institute. The number of recruiters has snowballed since then. The students have leveraged the key resources and have strived for the best. With students getting recruited for Intel, Robert Bosch, L&T Constructions, L&T InfoTech, Yodlee, MU-Sigma and many more reputed companies, it is evident that our students are preferred. The placement of the previous batch has crossed 85% considering that some of them have more than one offer and few have not appeared for any company as they are determined to be entrepreneurs, which is a clear indication of the quality of our students.

I am delighted to present this vibrant batch of students to our esteemed recruiters, both old and new. I trust that you will find them capable and appropriate for your industry. I am eager to welcome you to our campus and have a long and mutually beneficial relationship with you. I firmly believe the synergy of organizations will work wonders and will benefit our nation too.

I firmly believe that our students realise that it is important to get a placement on passing out, but it is more important to be placed in career, further it is much more important to get placed in life, which will make them most responsible citizens of the world in fostering cohesive family, strong nation and a sustainable world. I urge that our recruiters look at them from a holistic point of view and exploit their potential in the same line. My humble request is that this may not be considered merely as a word of wisdom but essential need for the development of nation and sustainability of the human society.

Prof. A. B. Samaddar
Director, NIT Sikkim

From the
Faculty In-charge's Desk

It gives me immense pleasure to extend to you a most cordial invitation to participate in the campus recruitment programme of National Institute of Technology Sikkim. With an increasing thrust being placed on institute-industry interaction, it is my sincere belief that your esteemed organization and NIT Sikkim stand to gain immensely from this symbiotic relationship.

Established in the year 2010, NIT Sikkim is a new technical institution of national importance under the Ministry of Human Resource Development, Government of India. Since its inception, NIT Sikkim has been producing engineers in the field of Electrical, Electronics and Computer Science and Engineering. Our strong faculty members, who have completed their education from reputed premier institutions such as Imperial College London, TIFR, IISc, IIT, ISM, NIT etc, take care to groom our students according to the needs of the society and the industry and thus help in building our national potentiality in technology and research for the development of the country.

We seek to open frontiers of knowledge and reveal new horizons of change, to broaden mindsets and to create positive attitudes in students. Besides, our undergraduate students get a lot of industrial exposure by their frequent visits to industry as well as reputed premier technical institutions like IITs and old NITs.

I earnestly look forward to potential recruiter organizations of repute to visit NIT Sikkim and anticipate that you find our students as finely-crafted worthy human resource after going through the information contained in the brochure. I wish a very flourishing career ahead to all the students and feel confident that they will be well acknowledged by the industry.

Dr. Sangram Ray
Faculty In-Charge
Training and Placement Cell

The Vision

India has the responsibility to offer the World Science and Technology, essentially with sustainability, through its philosophy & conscience and value system and NIT Sikkim will play its role.

The Mission

To develop the students as 'Thinking Engineers' by nurturing them in attaining and enjoying the technical and scientific excellence, global exposure and at the same time in beholding the philosophy and the values for India and the world as a whole.

Ravangla

About NIT Sikkim

Administered under the constant tutelage of the Ministry of Human Resources and Development, Government of India, National Institute of Technology Sikkim is one of the fastest developing premier technical institutes in India. The institute has been continuously striving to achieve excellence since its inception in 2010, subsequently justifying its status of being 'An Institute of National Importance'. The institute, with its top-notch academic programs, high quality research work and extracurricular student activities is setting new standards of technical education throughout the nation.

The students of NIT Sikkim not only enjoy competitive and challenging environment but also believe in sharing knowledge and information and communicating efficiently. With a curriculum which is continually adapted to the ever changing needs of the industry, the motto of NIT Sikkim has always been to acknowledge the young 'THINKING ENGINEERS' and embrace technology to make learning more engaging. Within a short span of time, this budding institute has grown leaps and bounds and has been continuously hosting many national level conferences like '17th workshop on Computational Information Processing', 'Workshop on design of experiments and statistical modelling' and 'Workshop on Recent Trends and Perspectives in Chemistry.

The institute has also been graced by the presence of eminent personalities such as Prof. C.N.R. Rao (Bharat Ratna), Prof. Chris Phillips (Imperial College London), Dr. Christopher Soghoian (TED Senior Fellow), Mrs. Deepa Malik (Arjuna Awardee), Prof. Jayanta Kumar Bhattacharjee (Director, HRI Allahabad) and Dr. A.L.V. Kumar Reddy (Nuclear Fuel Scientist).

New Pre-Fab Boys' Hostel

The academic programs of the institute are presently being conducted at its campus in Ravangla, South Sikkim. The place beholds a serene and calm environment which helps students to work more passionately towards their dreams and aspirations. The institute provides the ambience where creativity and new ideas flourish, producing leaders of tomorrow by imparting knowledge blended with excellence.

Academic Programmes

Undergraduate B.Tech Programmes

The institute admits students from all over the country to its undergraduate B.Tech program through Joint Entrance Examination (JEE Mains) conducted by Central Seat Allocation Board (CSAB) every year and DASA (Direct Admission of students abroad), admissions to which are coordinated by a group of NITs annually. The institute currently offers four year B.Tech courses in six departments namely Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Civil Engineering, Mechanical Engineering and Biotechnology.

Post-graduate M.Tech Programmes

Presently, the institute offers M.Tech program in the department of Computer Science and Engineering and admits students through Centralized Counseling for M.Tech (CCMT), a system wherein students with valid GATE score can fill one CCMT Application form and apply to all the programs of all the participating institutions to which they are eligible.
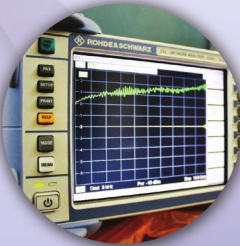
Post-Graduate Phd Programmes

The Institute offers PhD programs in the following departments/fields under 'Visvesvaraya Ph.D. scheme in Electronic Design and Information Technology' for full time PhD program, sponsored by Department of Electronics and Information Technology, Government of India:

- Computer Science and Engineering
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Mechanical Engineering
- Civil Engineering
- Physics
- Chemistry
- Mathematics
- Humanities and Social Sciences (Economics and English)

High Performance Computing Lab at NIT Sikkim

Computer Science and Engineering

The Computer Science and Engineering was initiated with the motive of preparing students in a rich energetic academic environment in order to match with the fast pacing technologies. With hard and proper guidance of faculty members, every year a good percentage of students get chosen by reputed companies and pursue higher studies making their way to IISc, IITs and IIMs.

• **PARAM Kanchenjunga Supercomputing Facility**: 32x16 cores, Head Node (Fujitsu RX300 S8, 4 Intel Xeon E5-2650 v2 processor @ 2.6 Ghz), 28+4 Compute Nodes (Fujitsu RX200, RX350 S8). Interconnects (Gigabit Ethernet and Infiniband), OS (RHEL 6.5, kernel 2.6.32-431.el6.x86_64), InClus cluster management toolkit.

• **Computer Science Lab**: The CSE Lab has 25 i3 and 25 i7 based PCs with CST studio and other high end software.

• **Cloud Computing Lab**: The lab has 22 state-of-the-art systems (Intel(R) Core(TM) i7-4770 CPU @ 3.40 Ghz, 8GB RAM, 1TB HDD) with Linux and Windows Platforms.

Research and Projects:
• Cryptography and Network Security
• Artificial Intelligence
• Human Computer Interaction Natural Language Processing

Some Ongoing Projects:
• Emotion Detection using Pattern detection
• Creating private cloud using OpenNebula
• Visualization with OpenGL using supercomputer
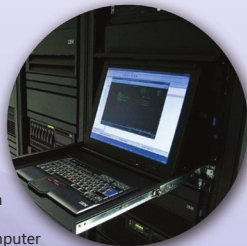
Electrical and Electronics Engineering

The Department of Electrical and Electronics Engineering has been the bedrock department since the very establishment of the institute and has taken a great stride towards holistic development. Various activities are conducted to furbish the technical prowess of students to evolve in them the 'Thinking Engineers' for the industrial world.

Technical Facilities
• Solar panel model trainer kit - 200W
• Insulated Gate Bipolar Transistor Trainer Kit for power electronics
• PICAXE-18 High Power Project Board
• B-H curve trainer kit
• Insulation resistance tester
• Cable tester trainer kit
• Pulse inverter trainer kit
• Slip Ring Induction motor (3 Phase, 1 hp, 415 V)
• Squirrel cage Induction motor (3 Phase, 2 hp, 415 V)

Research and Projects
• Intelligent Network Robotics (Visvesvaraya, PhD)
• Controller for FACTs (Flexible AC Transmission)
• Fractional Order Circuits and Systems
• Non-Conventional Energy Generation

Ongoing Projects:
• Maximum loadability detection and weak bus identification of IEEE 57-bus network
• Hybrid Photovoltaic system Power generation
• Electromagnetic design and fabrication of an induction power System

Electronics and Communication Engineering

The Department of Electronics and Communication Engineering has been the pioneer department since the establishment of the institute and has developed in leaps and bounds with the consistent efforts of its highly qualified and esteemed faculty members who make the students well groomed and more confident for their bright future in the mighty corporate world.

Technical Facilities
• Mixed Signal Oscilloscope (2+16 Channels)
• Digital Storage Oscilloscope (100 MHz, 2 channels)
• NI USRP Wireless Communication Module
• CNC machine for PCB Prototype & Antenna Design
• Speech processing database switch board, release 1 & hub 4, WSJ cam 0 & PF star
• Vector Network Analyzer with Spectrum Analysis (up to 14 GHz)
• NI Elvis Kit (1 & 2) and Logic Analyzer
• Radon Gas sensor for earthquake detection

Research and Projects

• III- V base semiconductor devices
• Ultra wide band communication and Optimized UWB antenna development
• Speech processing
• EM Field Theory in the area of Seismic Event in relation to Geo spot and/or its application

Ongoing Projects:
• SMDP- C2SD for Microelectronics
• Technology and VLSI Design
• Visvesvaraya PhD Scheme
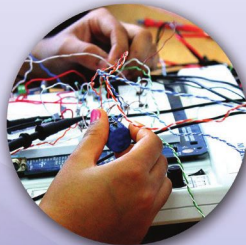
Civil Engineering

The Department of Civil Engineering, which is one of the sublime departments of the institute, was established in 2013 with the vision to make ethically strong engineers who can serve the nation with their significant contributions. The department is under the tutelage of energetic and highly qualified faculty from the diverse esteemed institutes.

Technical Facilities
• Total Station (Least Count 1")
• Digital Theodolite (Least Count 5"), Auto Level
• Nephelometer, Spectrophotometer
• Electric Muffle Furnace, Chloroscope
• Digital Compression Testing Machnine (2000 kN)
• Ultrasonic Pulse Velocity Testing Machine (Frequency Range: 20-150 kHz), Rebound Hammer
• Francis Turbine (Output: 1kW at 3500 min-1 and 4,2 bar) and Pelton Turbine (1.5 kW at 2750 mim-1 at 6.5 bar)

Further, the students have exposure in the state-of-the-art lab facilities at premier technical institutes like IIT Kanpur and NIT Durgapur.

Some Ongoing Projects:
• Green Technology: Water conservation using the concept of Fog Harvesting and Rainwater Harvesting
• Geotextile Technology: A road construction solution for mountainous regions prone to landslides, high seismic activity and weak soil conditions

Academic Rigour

Library-The KIC

The Central Library of NIT Sikkim is designated as **Knowledge and Information Centre (KIC)** which is rich in resources for students and research scholars. The KIC provides more than 7000 books with more than 1000 titles and has text books, reference books, encyclopedias, dictionaries, videos, CDs/DVDs, Journals/Magazines, Local and National newspapers, e-books, Bibliographic and full text databases, NPTEL videos and E-book readers. Apart from these, the KIC also owns the subscription of many online scientific repositories such as **IEEE and Science Direct**, to name a few. Recently, NIT Sikkim has also become one of the few institutes availing the MHRD's new initiative of **National Digital Library (NDL)**, a virtual repository of learning resources in digital form which provides single-window search portal to facilitate focused searching so that learners can retrieve the right resource with least effort in minimum time.

Research

The institute has always been focusing on Research and Development activities by encouraging and supporting programs like **INSPIRE SUMMER CAMP** and **RESEARCH AND INNOVATION SUMMIT** to communicate the excitements of creative pursuit of science to the youth of the country and build the required critical human resource pool for strengthening and expanding the Science & Technology system and Research and Development base. Not only this, our faculty team and students have published many research papers and scientific journals in some of the world's largest professional association platform like IEEE and Research Gate. **High Performance Computing (HPC)** facility is also available in the institute and research works are going on using this data intensive computing system in the fields of Mechanical Engineering (CFD, FEM etc).

Internships and Industrial Exposures

Undergraduate students undertake summer internships/training after their 4th and 6th semester in various premier institutes and well known industries of the country. This provides them with an opportunity to gain hands-on experience and also sensitizes them to current areas of research and industry needs. Some of the organizations in which the students have interned/trained are:

Life @ NIT Sikkim

The institute campus of National Institute of Technology Sikkim is presently located at Ravangla, South Sikkim amidst abundant natural beauty and serenity. The institute comprises of good infrastructure facilities comprising of sufficient classrooms, auditoriums, computer labs, central library as well as hostels and gymnasium. The hostels provide the students with an atmosphere much like a home away from home. It provides them with all the necessary facilities which help them to acclimatize well with this new ambience.

The institute acts as a catalyst to hone the students' skills and talents through a support structure not only academic, but also by providing the students a plethora of co-curricular activities hosting its various technical and cultural events giving them a wider platform with a much larger scope to exhibit their managerial as well as technical skills.

There are also various departmental societies like Nirmaan (CE), Anuvrat (ECE) and Yantrikaa (ME) working under the student leaders aimed at helping our students to enhance their soft skills through a series of different activities like Debates, Quiz, Group discussions to name a few. Thus, the Institute provides a campus life to the students who will recall these years as the best and valuable time of their life !

Abhiyantran

To promote the cause of technology and to ignite the young talents of our country, the institute celebrates its technical fest annually, named 'Abhiyantran'. Since the first chapter of Abhiyantran, mass convergence of students from all over the country in different events, workshops and seminars have increased in leaps and bounds. It has also hosted a glut of talks and symposiums of some of very distinguished personalities availing some very praiseworthy and polite remarks from them about the institute and its students which has boosted our students with a lot more zeal and enthusiasm.

Udgam

One of the biggest annual cultural extravaganzas of North-east region, Udgam which is a culmination of sound and lights, of music and arts, of dances and dramas, of thoughts and words, the perfect place to bring out the artist in everyone. The festival also aims to serve as a platform for the expression of youth opinion on social issues.
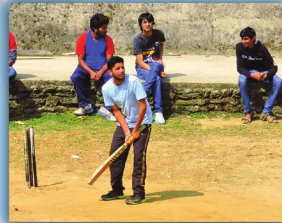
Sports

Sports club of NIT Sikkim conducts various inter and intra-college events like cricket, badminton, kho-kho, chess, table-tennis etc. to pioneer spirit of teamwork among the students and aim to use, maintain or improve physical ability and skills while providing entertainment to participants. The Sports Week and the Xplode Cup are the annual sports events which keep the ball rolling throughout the year. Sports and games are thoroughly promoted with the aim that the dynamic leaders of tomorrow need to be good sportsmen as well.

Placement Process

To support the placement process, the placement office has been effective online system in place. The process for the campus placement follows the following plan:
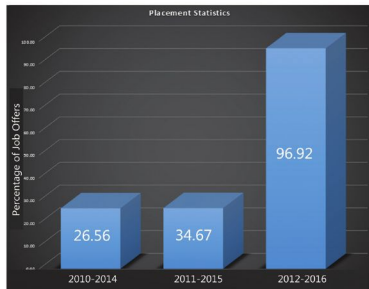
1 The Training and Placement Cell of NIT Sikkim sends invitations to companies/organizations along with relevant information.

2 Companies/Organizations interested in recruiting can register themselves on the website: placement.nitsikkim.ac.in

3 A company/organization fills in the online **Job Announcement Form (JAF)** containing details of the job-offer.

Placement Office
JAF

4 If the company/organization is interested in conducting a **Pre-Placement Talk (PPT)** they can send a request along with the preferred dates.

5 The **JAF** is made available to the students, along with any other information furnished by company/organization.

JAF

6 Eligible students show their willingness to appear for the recruitment process of the company by signing its **JAF.**

7 Placement office allots dates for recruitment procedure in consultation with the concerned organization.

8 Organizations can view resumes of interested students and shortlist students as per the criteria specified.

9 Organizations visit the campus on the allotted date(s) and conduct tests and/or interviews according to their recruitment process.

10 The company/organization is required to furnish the final list of selected students on the date of interview.

11 The Placement office also coordinates the signing of offer letters by the selected students to ensure that they reach the respective company/organization at the earliest.

Demographics

CSE M.Tech — 9%
CSE B.Tech — 28%
CE B.Tech — 28%
EEE B.Tech — 15%
ECE B.Tech — 20%

Student Intake

Placement Offers

• 2010-2014 Batch
• 2011-2015 Batch
• 2012-2016 Batch

Placement Statistics

2010-2014: 26.56
2011-2015: 34.67
2012-2016: 96.92

Past Recruiters

intel | पावरग्रिड | Microsoft | NATIONAL INSTRUMENTS
YODLEE | NOKIA NETWORKS | Tech Mahindra | HUAWEI
virtusa | BOSCH | verizon | IBM
amdocs | L&T Infotech | WIPRO Applying Thought | Mu Sigma
INTECH Harness the cloud | POLARIS live your dream | MAGNETI MARELLI | Infosys
xerox | L&T Construction | DRISHTI
intellect Design for Digital | RetailOn Online Retail With Magento | TATA CONSULTANCY SERVICES

Reach Us

In order to reach NIT Sikkim, it is required to reach **Siliguri** first. There are two ways to reach Siliguri:

BY AIR: The Airport nearest to Siliguri is BAGDOGRA (IATA Code: IXB) which is at a distance of about 17km from Silliguri.

BY RAIL: You can reach Siliguri via **NEW JALPAIGURI Railway Station (Code: NJP)** as well which is at a distance of about **4km** from Siliguri.

From airport/railway station one has to reach **SNT Bus Stand** near Siliguri Junction. At the Bus Stand there are various transportation facilities available for **Ravangla** such as:

Private/shared taxi to reach Ravangla via **Singtam or Namchi**.

Government bus to reach Ravangla departs at **1:00pm** from SNT Bus Stand.

NIT Sikkim is located **2km** away from **Ravangla** which is a tourist town situated in **South Sikkim** district of Sikkim, India.

Ravangla is well connected by State Highway to other major towns in the state and lies between **Pelling** and **Gangtok.**

The accomodation for the recruiters at Ravangla will be arranged by the institute itself.

For information related to transportation and accommodation, please contact
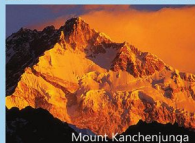
Nishant Kr. Choudhary: +91 8370844721

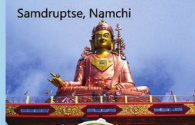You can also find your way to the campus using the following link to Google maps: **https://goo.gl/maps/u58ZUoXsRKk**
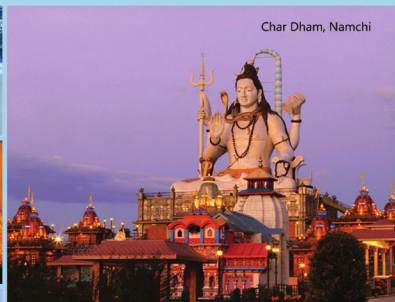
Places Around

Tsongmo Lake

Mount Kanchenjunga

Samdruptse, Namchi

Char Dham, Namchi

Flower Garden, Gangtok

Temi Tea Garden

SIKKIM

Sikkim is a small state in Northeast India, bordered by Bhutan, Tibet and Nepal. Part of the Himalayas, the area has a dramatic landscape including India's highest mountain, 8,586m Kanchenjunga. Sikkim is also home to glaciers, alpine meadows and thousands of varieties of wildflowers. Steep path leads to hilltop Buddhist Monasteries such as Pemayangtse, which dates to early 1700s.

RAVANGLA

Ravangla or Ravongla is a tourist town situated at an elevation of 7000ft in South Sikkim district of the Indian state of Sikkim. It is connected by the state highway to other major towns in the state and lies between Pelling and Gangtok.

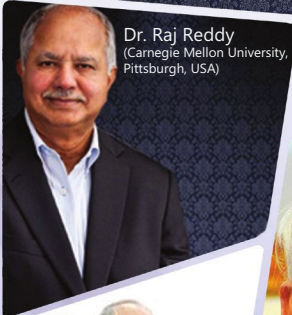Tathagata Tsal (Buddha Park)
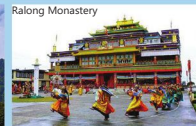
Ralong Monastery

Sunset Point, Ravangla

People at NIT Sikkim

Prof. C. N. R. Rao
(Bharat Ratna)

Dr. Raj Reddy
(Carnegie Mellon University, Pittsburgh, USA)

Mr. Srinivas Chamarthy
(Career Guide)

Prof. Gautam Biswas
(Director, IIT Guwahati)

Dr. A.S. Kiran Kumar
(Chairman ISRO)

Dr. Pradeep Kr Sinha
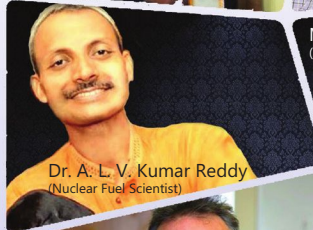(Head, National PARAM Supercomputing Facility)

Prof. Jayanta Kr. Bhattacharjee
(Director, HRI Allahabad)

Ms. Deepa Malik
(Arjuna Awardee)

Dr. A. L. V. Kumar Reddy
(Nuclear Fuel Scientist)

Prof. Chris Phillips
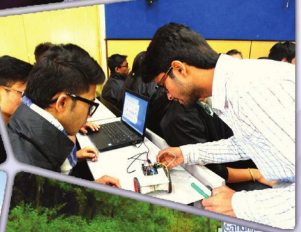(Imperial College London)

Dr. Christopher Soghoian
(TED Senior Fellow)

National Institute Of

Technology Sikkim at a glance

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