## **NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM**

**INSTITUTE OF NATIONAL IMPORTANCE** 















Annual Report **2014 • 2015** 



## **NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM**

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#### 1. Vision

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

#### 2. 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.

#### 3. Goals

- Help the engineering professionals recognize the quality and significance of their teaching, research, scholarship, service, outreach and leadership.
- Enhance the commitment of faculty, staff and students to the centrality of diversity, social justice and democratic citizenship.
- Provide leadership in the collaborative, professional relationships with schools, organizations and other institutions focused on the improvement of educations in school.
- Enhance the effective and efficient management of the institute.
- Sustain the caring, supportive climate throughout the institute.
- To evolve a system and to create an environment in which the students can realize their potential and their responsibilities to earn create, implement and disseminate knowledge for improvement of human life with natural and social sustainability.

## 4. Historical Background

National Institute of Technology Sikkim (NITSKM) is one among the ten newly sanctioned NIT(s) by the Government of India in 2009 under the Eleventh Five Year Plan. It is established in the temporary campus in the Barfung Block, Ravangala Subdivision of South Sikkim.

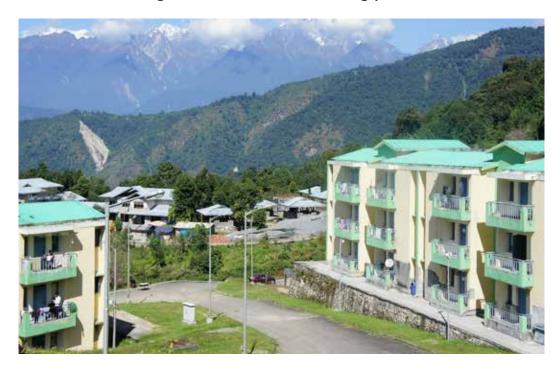


#### 5. Location

Presently, the institute is located in a temporary campus in the Kewzing Road at Ravangla, Barfung Block in South Sikkim, and covers an area of about three acres. The New Jalpaiguri Railway Station and Bagdogra Airport are respectively 113 and 106 km away from the Campus.

#### 6. Academics

The Institute follows the 2010 curriculum and syllabuses of NIT Calicut, which was the mentor institute. NIT Sikkim (NITSKM) offers technical education based on the state of the art curriculum. All the Undergraduate programmes and Ph.D have been designed in line with the IIT System, giving appropriate weightage for the theory and practice; however, the institute does feel the requirement of revision of the syllabus and is working in the direction accordingly.



## **Temporary Revangla Campus:**

Address: Barfung Block, Ravangla Sub-division, South Sikkim - 737 139 Contact (Direcctor): +91 03595 260042 (Phone) Fax: +91 03595 260018

## **Camp office near permanent Khamdong campus:**

Address: N.H.P.C. Stange-V Balutar Sigtam, East Sikkim, Sikkim - 737134 Contact (Director): +91 03593-247023, 247034 (Phone)



#### 7. Campus

#### The Infrastructural Facilities in the Temporary Campus include

- i. The main campus of NIT Sikkim has been sanctioned and is to come up on an approximate area of three hundred acres of land in Khamdong, east Sikkim. It is a built up location in terms of conveyance and means of communication. To add to the promising academic environment of NIT Sikkim, it will be located within a stone's throw from the Kendriya Vidyalaya, NHPC stage V Sing tam. Perhaps the best Kendriy Vidyalaya in Sikkim.
- ii. The present campus of NIT Sikkim at Ravangla, although temporary in nature, is also housed within a plethora of conveniences and an abundance of natural amenities. Just like the proposed Khamdong campus, it is located astern to the Jawahar Navodaya Vidyalaya Ravangla campus. The State Bank of India Ravangla branch, post office with speed post facility, and an army hospital are located within 2.5 kms from the institute campus. There is also a health centre situated in Ravangla.
- iii. Sixteen three-storied blocks, each with six 2-bedroom apartments, totalling to 96 apartments in the campus. These are utilized as boy's hostels, girl's hostels, faculty apartments and staff apartments. Each apartment has been furnished with cots, tables and chairs.
- iv. One Academic Building the rooms in this building are utilised as class rooms (three nos.), two computer rooms, and four faculty rooms. Necessary benches & desks, tables, chairs and almirahs have been purchased after the appointment of the director in 2011.
- v. One proposed Administrative Building with 7 rooms, completed by the initiative taken by the FIDA and is functional at present. Apart from three rooms being used for administrative operations, the building houses one furnished meeting room for faculty/administrative/Directorial meetings, a store-room for academic documents, a chamber for the Director of the institute and the necessary sanitary facilities. All rooms are well-furnished with the required furniture.
- vi. A common play ground is also available and used by students for certain outdoor games.
- vii. One indoor playground has be reconstructed using the courtyard space in the academic building. The ground is presently used for badminton by faculty and students both.



- viii. One more ground is being prepared where girls will be given preference. The ground will also be used for volley ball, Kho Kho and Kabaddi etc.
- ix. Nearly 2-3 acres of land just surrounding these buildings have been fenced. The road connectivity to the temporary campus is good. Three vehicles are being run for official and medical purposes to and from the campus since the joining of the Director in 2011.

#### 8. Medical Facilities

The institute has arranged an orthopaedic doctor, a physician and a compounder the medical unit. Orthopaedic doctor visits once, physician visits twice and compounder visits thrice in a week. Institute has taken insurance policies for all the existing students of NIT Sikkim. Initiative has been taken for medical insurance policy for existing regular employees. Initiative is also taken for tele medicine's programme and mega health camp.

#### 9. Hostels, Students' Activities & Accommodation:

There are total 11 Boys hostels out of which 2 hostels are in Ravangla City. These two buildings are rented to accommodate 1st year students. For girls there are three hostels and all these are on the campus of the institute. The hostels on the campus are fully wifi enabled. And for rented hostels in Ravangla City students are provided with wifi modems on sharing basis so that they have the access to internet.

## 9.1. Hostel Rules and Regulation

- 9.1.1. No student (either boy or girl) is permitted to go outside the campus on working / weekdays.
- 9.1.2. On weekends and holidays, no student shall leave the campus without the consent of the Chief-warden or Students Affairs Committee (SAC) members.
- 9.1.3. Girl students must return back to their hostel rooms within 06:00 PM in winter semester and by 06:30 PM in Monsoon semester.
- 9.1.4. Boy students must return back to their hostels by 6.30PM in Winter Semester and 07:00 in Monsoon Semester on days they are permitted to go out of the campus.



- 9.1.5. Every student should enter the security register while outgoing and incoming without fail.
- 9.1.6. Students shall go back to their rooms by 10:00 P.M. at night.
- 9.1.7. Girl students are not allowed to enter the boys' hostel and boys are not allowed to enter the girls' hostel at any time of the day or night.
- 9.1.8. Alcohol, drugs and smoking is prohibited in the campus. At any time, faculty can check any hostel room. The consumption or storage or supply of liquor or any sort of intoxicant is strictly prohibited and if found guilty, the offenders will be dealt with severely, including prosecution. Any kind of gambling is also prohibited.
- 9.1.9. Boy students should not cross/enter the boundaries/premises specified for girls near girls hostels.
- 9.1.10. Boy students should not dine in the tables specified for girls and faculty at the Mess Hall. Girl students should not dine in the tables specified for boys and faculty at the Mess Hall. And boy students should not sit and discuss on the tables specified for girls in the Mess at any time of day/night and vice versa.
- 9.1.11. Entertaining any guest in the hostels without the permission of Chief-warden is not permitted.
- 9.1.12. Ragging of any kind is severely punishable. Students should strictly abide by the anti-ragging policy of the Institute. It is understood that the students are aware what constitutes ragging and they will refrain from indulging in such acts that may be considered as any form of ragging.
- 9.1.13. Under special circumstances, the competent authority may permit a student to reside with his Parent/Guardian within a reasonable distance from the Institute.
- 9.1.14. A student shall reside in a room allotted to him/her and may shift to any other room only under the direction/permission of the Chief Warden.
- 9.1.15. Students shall be responsible for the proper care of the furniture; electrical and other fittings in the rooms allotted to them and shall generally assist the Warden in ensuring proper use, care and security of those provided in the Hostel of common use of all students. If any damage is done to those items, the students allotted in that particular room shall be held responsible and will be fined accordingly.



- 9.1.16. Students should not break open or try to break open the occupied / vacant rooms of the hostels. Any damage done to the hostel property will have to be borne by all the residents of the hostel.
- 9.1.17. Students will be responsible for the safe keeping of their own property. In the event of loss of any personal property of a student due to theft, fire or any other cause, the Institute shall accept no responsibility and shall not be liable for payment of any compensation.
- 9.1.18. Use of appliances like electric heater, refrigerator etc., by a student in the Hostel is prohibited.
- 9.1.19. A student once admitted in the hostel will continue to be a hostel inmate throughout the year unless otherwise debarred from the hostel on disciplinary grounds. Unless they clear the dues, they shall not be allowed to seat in an examination. Further, he/she may be expelled from the Hostel and/or messes.
- 9.1.20. A student once admitted in to a hostel, he / she shall automatically become a member of the student mess. All students shall pay full charges for mess w.e.f. the date of commence of a semester to the end date of that semester. The students are also required to pay establishment charges during the semester breaks.
- 9.1.21. Every inmate of the hostel shall pay in advance the mess bill and other charges before the stipulated date of every month, failing which fines will be imposed as per rules and regulations.
- 9.1.22. No parent or guardian of a student is permitted to stay in the hostel.
- 9.1.23. Hostel students shall not leave the campus without prior permission of the Warden/Chief Warden / SAC members. They shall have to apply for permission in writing in advance stating the reason for leaving and the address of destination. Hostel students who leave hostel without the application and prior permission from the concerned authorities shall be deemed to be missing and their parent/guardian or even the police authorities may be intimated.
- 9.1.24. Any hostel student harbouring any unauthorised person(s) will be expelled from the hostel immediately. The hostel cannot be considered as the hiding place for miscreants. The police authorities may enter the campus and detain anyone depending upon the severity of the offence.



- 9.1.25. The inmates of the hostel should not leave the hostel premises on holidays for the purpose of excursion or picnic without prior permission of the Warden / Chief Warden / SAC members. However, for any accident or fatality that may occur during picnic/excursion, the responsibility does not lie with the institute or Hostel authorities.
- 9.1.26. No association of students on the basis of region, religion, caste or creed is permitted.
- 9.1.27. No secret activities or meetings are permitted on the hostel premises. For holding any meeting in the hostel room or anywhere in the hostel area, prior written permission should be obtained from the Chief Warden.
- 9.1.28. Hostellers shall refrain from any act, covert or overt, that may destroy or disturb the peace and harmony among the residents and on the campus. Accommodation in the hostel cannot be claimed as a matter of right. Students who disturb peace and violate the rules of the hostel on the campus may be expelled from the hostel.
- 9.1.29. No hostel inmate shall take the law into his / her own hands. If any of the hostel inmates find that other students are indulging in any undesirable activity or causing inconvenience or physical injury to him/her or to the other hostel inmates, he/she should inform in writing with the warden concerned.
- 9.1.30. Keeping of lethal weapons like sticks, rods, chains etc. in the hostel rooms is strictly prohibited and shall be considered as punishable offence.
- 9.1.31. Students who have finished the four years of course study but yet to pass some examinations are called slow learners. Institute shall not be responsible to provide them accommodation in hostel after expiry of normal four years of course.
- 9.1.32. In case a student falls sick, he/she should contact immediately the Chief Warden / Warden(s) / SAC members. Medical facilities shall be provided at the Institute's dispensary for routine health problems. However, for any other treatment requiring specialist/expert medical care and treatment, the inmates are supposed to make their own arrangements for treatment and to bear medical expenditure themselves. A student suffering from infectious/contagious diseases will not be permitted to stay in hostels.
- 9.1.33. Residents shall not get involved in arguments or otherwise interfere with the duties of the employees of the hostel. If there is any complaint or suggestion to be made, it shall be made to the warden concerned.



- 9.1.34. Playing loud music and videos etc. inside the rooms is strictly prohibited as it causes disturbance to the inmates. Any such complaint against boarders will be viewed very seriously and seizure of the gadgets may be made along with imposition of fine.
- 9.1.35. The room of any student in the hostel can be inspected at any time by the Warden/Chief Warden or any authorised member of the institute staff or district police officials. Inmates are advised to keep their ID cards with them and show them on demand.
- 9.1.36. Hostel Representatives / Student Mess Representatives will be selected on merit or as desired by the Chief Warden from among the Block/mess students to assist him/her in the supervision of hostel block/mess and in enforcing discipline. Every hostel inmate shall co-operate with him/her in the act of discharging his/her duties.
- 9.1.37. Hostel inmates are requested to maintain their surroundings neat and clean.
- 9.1.38. Inmates should not fire crackers on any occasion inside the hostel or within the premises of the hostel.
- 9.1.39. Inmates are prohibited from writing graffiti or slogans, or any writings obscene drawings on the hostel walls and rooms. Heavy penalties will be imposed on students/group of students indulging in such writings.
- 9.1.40. Inmates should not play cricket, football etc., in the common halls or inside or in front of hostel. It not only may cause damage to the hostel property, but also disturbs the peace of the surroundings. Heavy penalty will be imposed and will be collected from all students of the Block.
- 9.1.41. Hostel inmates who are found guilty of misconduct or guilty of infringement of any of the rules prescribed above shall be liable to fine, suspension, rustication or dismissal either from the hostel and/or from the institute or both by the appropriate authority.
  - Any violation of the above directions regarding Hostel Rules & Regulations will be severely dealt with. And, the incident will be entered into the students Institute file under a committee formed by the Institute.
- **9.2. Gymnasium:** The initiative to establish a Gymnasium was taken last year and now its is completed. The students and faculty members can used the facilities.



#### 9.3 Sports:

- (a) Many sports events were organised, viz. Explode Cricket Cup, various intra-NIT Sports Sikkim indoor tournaments in Chess, Badminton, Football, Computer games, etc.
- (b) Students participated in Inter-NIT Sports meets in NIT Warangal, NIT Surat, MNNIT Allahabad and NIT Kurulshetra etc.
- (c) Sports equipments were purchased to improve sports facilities.
- **9.4 Students Mess:** Equipments were bought for mechanisation of students' mess to provide more hygienic food. Overall infrastructure is improved. There are total 2 mess one each for boys and girls.
- 9.5 Scholarships: Being an Institute of National Importance, NIT Sikkim students were awarded 12 scholarships per batch per year under "Top Class Education for SC students" from Ministry of Social Justice & Empowerment and 5 scholarships per batch per year under "Top Class Education for ST students" from Ministry of Tribal Affairs. Many students belonging to Other Backward Classes (OBC) receive scholarships from respective States. Students belonging to Minority communities receive scholarships from Ministry of Minority Affairs (MOMA). Students also receive scholarships from some other funding agencies like Foundation for Academic Excellence and Access (FAEA).
- **10. Emergency power back-up:** Emergency power back-up lines were provided in the hostel rooms.

#### 11. Essential construction activities:

The land at Khamdong for the proposed permanent campus of NIT Sikkim, was to be handed over to the institution authorities by March 2012. However it has not yet been received physically. Hence, for the sake of boosting teaching and research, the institute had to go for some essential construction projects at the Ravangla campus itself. Details of the same are as follows:

i. Renovation of existing residential and non-residential building. mostly damaged by Earthquake at Ravangla campus, is completed.



- ii. Repair and renovation of Community Centre (Multipurpose hall) which was fully damaged by Earthquake at Ravangla campus is completed with public address system.
- iii. Construction of tubular truss with pre-coated galvanised sheet roofing at Academic Block courtyard at Ravangla Campus is completed and being used as a badminton indoor ground.
- iv. Fixing chain link fencing surrounding of playground for at Ravangla campus is completed;
- v. Construction of Front Gate & Guard Room at Ravangla campus is being initiated.
- vi. Construction of Prefab structure for hostel was initiated last year and work is almost completed.

As soon as the land at Khamdong will be handed over, construction of boundary walls and gate will begin.

## 12. Status of Land for permanent campus

Although the land was allotted at Khamdong following an official inspection on 24th August 2011, the land has not yet been handed over. As a result it is difficult for the Institute's administration and faculty to maintain the standard of education. Several requests have been sent to the state Government, but no response is recieved. Despite the fact that the institute is being run, the situation poses a great threat to the maintenance of the land and the development of the Institute.





#### 13. ACADEMIC FACTS AND FIGURES

## a. Courses Currently Offered

- B. Tech. in Computer Science and Engineering
- B. Tech. in Electronics and Communication Engineering
- B. Tech. in Electrical and Electronics Engineering
- B.Tech in Civil Engineering
- B. Tech in Mechanical Engineering

## b. Statement showing the student position at NIT-SKM

i) Student statistics during 2014-15

S.No	Particulars		Number of students' in position					
		SC	ST	ОВС	Minority	General	Others	Total
(i)	Boys							
	UG	14	07	32		30		83
(ii)	Girls							
	UG	03	06	05		06		20
PhD	Boys	04	01	01		06		12
2014	Girls	01				01		02
	TOTAL							117

## C. Department toppers of the pass out batch (2011-2015):

1. Computer Science and Engineering : Mr. Anshu Anurag

2. Electronics and Communication Engineering : Ms. Sajida Tabassum

3. Electrical and Electronics Engineering : Mr. Manish Kumar Thakur

Invocation for the PhD -2014 batch & B.Tech first year students was held on 8th October 2014.



## 14. ADMINISTRATIVE COMMITTEES

## 1.a BoG (Board of Governors)

S.No.	Designation	Name and Address	
1	Chairman	Dr. R.K. Sinha, Atomic Energy Commission Bombay	
2	Ex-Officio Member	Dr. A.B. Samaddar, Director National Insitute of Technology Sikkim	
3	Member	Additional Secretary or Joint Secretary Dealing with technical education Department of Higher Education, MHRE	
4	Member	Financial Adviser, Ministry of Huma Resource and Development, Shast Bhawan, New Delhi	
5	Member	Mr. Tomas Chandi, Secretary, Human Resource and Development Department, Government of Sikkim	
6	Member	Mr. Dipak Pradhan, Director, Technical Education, Government of Sikkim	
7	Member	Shri Ramesh Sharma, CMD, Moving Picture Co. India Ltd, And former Chairman, National Film Awards.	
8	Member	Ms. Swarupa Rani, 196 Classic Orchads, Bannerghatta Road, Bangalore	
9 & 10	Member	Professor / Associate / Assistant Professor of the nearby CFTI's including IITs on the recommendations of the Board	



S.No.	Address of Office	Name and Designation
11	Member	Director, IIT - Guwahati or his nominee, not below the rank of Professo
12	Secretary	Registrar, National Institute of Technology Sikkim

Board of Governors meeting was held on 11thJune 2014 in New Delhi

## 1.b Senate

S.No.	Name	Designation
1	Prof A.B Samaddar	Senate Chairman, Director NIT Sikkim
2	Dr. Nurujjaman	Assistant Dean Academic Affairs (AD, AA)
3	Dr. Sumit Chatterjee	Faculty-Incharge, Electronics and Communication Engineering
4	Dr. Sangram Kr. Ray	Faculty-Incharge, Computer Science and Engineering
5	Dr. Anjan Kr. Ray	Faculty-Incharge, Electrical and Electronics Engineering
6	Dr. Sambhunath Barman	Faculty-Incharge, Mechanical Engineering
7	Dr. Prasad Basu	Faculty Incharge, Physics
8	Dr. Sumit Saha	Faculty Incharge, Chemistry
9	Dr. Ravi Srivastava	Faculty Incharge, Mathematics
10	Dr. Dhananjay Tripathi	Faculty Incharge, Humanities and Social Sciences.
11.	Mr. Swapan Manna	Knowledge & Information Officer



S.No.	Name	Designation
12	Dr. S.S Pathak	External Member, BOG nominee
13	Dr. Basabi Bhattacharya	External Member, BOG nominee
14	Dr. T.K Nayak	External Member, BOG nominee

First Senate meeting was held on 29th December 2014, at IIT Kharagpur Extension Centre, Kolkata

#### 1.c The FC: Finance Committee (being constituted)

#### 1.d The BWC( Building works committee is headed by the director)

Work was taken care of with the senior officials of electrical and civil engineering departments of the State and CPWD. There was not much of civil construction possible due to non-availability of permanent campus. The constitution of a formal committee is under process.

#### 1.e Assistant Deans

S.No.	Staff name	Post
1	Dr. Md. Nurujjaman	Assistant Dean Academic Affairs
2	Dr. Taraknath Kundu	Assistant Dean & Students Affairs
3	Dr.Anjan Kumar Ray	Assistant Dean Planning &Development
4.	Mr. Md. SarfarajAlam Ansari	Assistant Dean Administration & Faculty Affairs
5.	Dr.Sumit Saha	Assistant Dean Research & Consultancy



# 1.e Committees and respective faculty in-charge for the smooth functioning of the institute:

The foremost attempt initiated by the Director, who joined 2011, was to form statutory bodies to provide effective guidance and procedural functioning of the institute.

#### The Institute is governed and run by different statutory bodies.

(i) In-charge Training & Placement Activities (FI T&P)

#### **Dr. Agile Mathew**

(Faculty In-charge)
Dept. of Electronic & Communication Engineering
NIT Sikkim

(ii) In-charge Construction & Maintenance Activities

#### Dr. Mohan S C

(Faculty In-charge)
Dept. of Civil Engineering
NIT Sikkim

(iii) In-charge Power and Energy Conservation Initiative (FIPECI)

#### Mr. Shiraz Sohail

(Faculty In-charge)
Dept. OfElectrical & Electronics Engineering
NIT Sikkim

(iv) In-charge Information & Communication Technology Infrastructure (FIICTI)

#### **Dr. Anjan Kumar Ray**

(Faculty In-charge)
Dept. of Electrical and Electronics Engineering
NIT Sikkim

(v) In-charge Knowledge, Information & Learning Enabelment (FIKILE)

#### **Dr. Partha Dey**

(Faculty In-charge)
Dept. of Mechanical Engineering
NIT Sikkim



(vi) In-charge Community Development & Awareness Programme (FICDAPA)

#### **Dr. Ravi Srivastava**

(Faculty In-charge)
Dept. of Mathematics
NIT Sikkim

(vii) In-charge Landscape, Gardening and Environmental Protection (FILGEP)

#### **Dr. Harikanta Choudhury**

(Faculty In-charge)
Dept. of Humanities & Social Sciences
NIT Sikkim

(viii) In-charge Publication & Web Information System (FIPWIS)

#### **Dr. Dhananajay Tripathi**

(Faculty In-charge)
Dept. of Humanities and Social Sciences
NIT Sikkim

(ix) In charge Women Grievances Committee (IWGC)

#### Ms. Reshmi Dhara

Dept. of Electronic and Communication Engineering NIT Sikkim

(x) In charge Games and Student's Activities (FIGSA)

#### **Dr. Shambunath Barman**

(Faculty In- Charge)
Dept. of Mechanical Engineering
NIT Sikkim

(xi) In charge Indian Language and Cultural Endeavours(FIIHLCE)

#### **Dr. Dhananjay Tripathi**

(Faculty In- Charge)
Dept. of Humanity and Social Sciences
NIT Sikkim

(xii) In charge Hostel & Mess Affairs (FIHMA)

#### Dr. Taraknath Kundu

(Faculty In- Charge)
Dept. of Chemistry
NIT Sikkim



(xiii) Poctorial Board (FIPB)

#### **Dr. Taraknath Kundu**

(Faculty in- Charge) Dept. of Chemistry NIT Sikkim

(xiv) Health Care Services (FIHCS)

#### **Dr. Sumit K Chatterjee**

(Faculty in- Charge) Dept. of Electronic and Communication Engineering NIT, Sikkim

(xv) Research and Development Cell (FIR & DC)

#### **Dr. Sumit Saha**

(Faculty in- Charge) Dept. of Chemistry NIT Sikkim

(xvi) Institute's Undergraduate Committee (IUGC)

#### **Dr. Agile Mathew**

(Faculty in- Charge)
Dept. of Electronics and Communication Engineering
NIT Sikkim

(xvii) Institute's Postgraduate Committee (IPGC)

#### **Dr. Partha Dey**

(Faculty in- Charge)
Dept. of Mechanical Engineering
NIT Sikkim

(xviii) Public Information Officer

Dr. Dhananjay Tripathi, FIPWIS

(xix) Chief Public Information Officer (1st appellate authority)

Mr. Md. Sarfaraj Alam Ansari, FIDA



## 15. NON-TEACHING STAFF LIST

## **Staff-list for 2014-2015**

S.No.	Staff name	Post
1	Mr. Swapan Manna	KIO
2	Mr. K D Tiwary	OSD
3	Mr. Ram Nepal	Assistant Registrar
4.	Mr. Sahil Minda	Assistant Accountant
5.	Mr. Kanahiya Prasad	JE
6.	Mr. Tapan Chhetri	Computing Assistant
7	Mr. Bharat Pradhan	Office Assistant
8	Mr. Bapi Mondal	MTS
9.	Mrs. Punam Singh	MTS
10	Mrs. Nishita Chettri	Office Assistant
11	Ms. Sujata Dhungana	Secretarial Assistant
12	Mr. Amrit Sharma	Lab Technician, EEE
13	Mr. Happy Mondal	Lab Technician, Phy
14	Mr. Christofhar Sudhir George	Library Assistant
15	Mr. Aniruddha Singh	Lab Technician, CSE



#### 16. ADOPTION OF LOGO

The logo of National Institute of Technology Sikkim has designed and is given on the front page of this report. It has the picture that includes number one and zero symbolizing basic units of computer science. The picture includes a bridge a token for civil engineering, antenna for Electrical and Electronics Engineering. The logo is shown below:



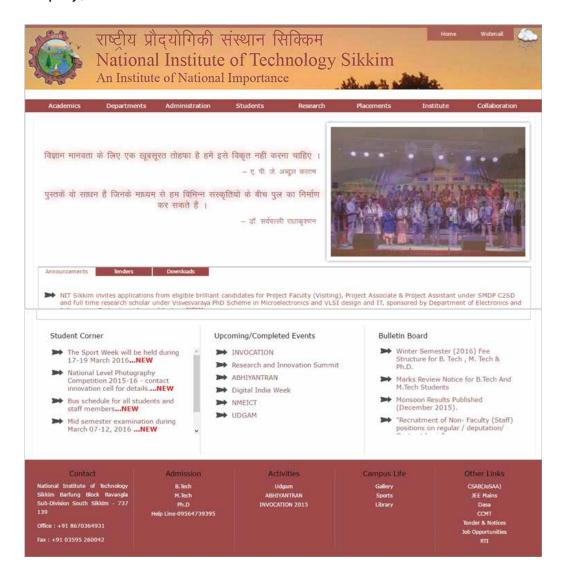
The picture also includes DNA structure giving the sense that the institute provides ample scope for the growth of bio-technology. The river and pine tree in the picture symbolizes the flora and fauna of the state of Sikkim. The flame (Deepak) and rising sun is the picture sque description of the institute's punch line, 'Charaiveti'— a Vedic sentence, meaning constantly rising. The two birds flying high are metaphor for grown - up technocrats who are prepared and free to move away to spread the light of wisdom the circle is not closed rather opened at the top of right hand side to give the idea that the institute believes in giving freedom to explore the horizons of technology to its students and associates.

The design has been accepted in principle by the BOG.



#### 17. LAUNCHING OF WEBSITE

The NIT SIKKIM website was launched under the domain name www.nitsikkim.ac.in in the month of July 2011. The website is further improved. The current home page is designed as follows (the two views show the dynamically altering picture in the central display):



The administrative head of the website is Director. FIPWIS. Dr. Dhananjay Tripathi is the technical head and looks after the website. A group of students of the institute works with the Convener of the committee, Mr. B. Balaji Naik to keep the website updated. The students' committee is called Web Development Cell of NIT Sikkim which not only updates the website but keep on making new webpages and sub domains as required from time to time. The initiative helps the students in getting the practical training in the area of Web Development. The final responsibility of the contents on the website is on the administrative head; however, the changes and updates are the subject to the approval of the technical head.



#### 18. CENTRAL LIBRARY & BOOKS/REFERENCES/JOURNALS

Knowledge and Information Centre (KIC) of NIT Sikkim is growing rapidly in the path of serving its patrons. In this digital era KIC is exceedingly modernized. An evaluation study of NITs library website ranked KIC website on 12th place among rest of NIT's Library website. At present it is providing various electronic resources in the form of e-journals and e-books. In addition NPTEL videos are accessible. Electronic as well as print collections are on the rise. It has text books, reference books, encyclopaedias, dictionaries, CDs/DVDs, Local and National newspapers. Newsletters, annual reports, brochures, information bulletins in Hindi and English from prestigious institutions are obtainable in KIC. Photocopy, printing and high speed broad-band internet (LAN and Wi-Fi) facilities are available for patrons. KIC is fully automated with the latest software Libsys 7. KIC is committed to support teaching and research programme of the institute and to disseminate the information according to the requirement of the patrons. KIC offered peaceable and knowledgeable atmosphere for study, research, innovation and learning to all the patrons.

#### **Currently KIC is effectively managed by two staff members:**



Mr. Swapan Manna



Mr. Christopfhar Sudhir George



## **18.A. Library Time table for Books Issue/Return:**

DAYS	Session 1	Session 2
Monday	0900 hrs - 1300 hrs	1400 hrs - 1730 hrs
Tuesday	0900 hrs - 1300 hrs	1400 hrs - 1730 hrs
Wednesday	0900 hrs - 1300 hrs	1400 hrs - 1730 hrs
Thursday	0900 hrs - 1300 hrs	1400 hrs - 1730 hrs
Friday	0900 hrs - 1300 hrs	1400 hrs - 1730 hrs
Saturday	Closed	1400 hrs - 1700 hrs

#### **B** New Initiative: (New content)

- KIC's separate website launched http://kic.nitsikkim.ac.in/
- Books exhibition done successfully with Abhiyantran-2014
- > SPIE digital Library online access started.
- Number of Books issued per students increased. Now issuing 6 books per student.
- Approval received from Top Management for more space for KIC.

#### **C** Collection Details:

1.	Total no. Titles	882
2.	Total No. of Hard copy Book	5001
3.	E-books	233
4.	Kindle E-books	880
5.	Hard Copy Journal/Magazine	24
6.	Kindle e-book Reader/Tablet	4

- 7. Online Databases
  - a. Science Direct
  - b. IEEE
  - c. SciFinder
  - d. SPIE Digital Library
  - e. Springer
  - f. APS (two Journals))
- 8. National and Regional News Paper 7
- 9. NPTEL Videos



## **19. Planning and Development Activity**

## Progress report for the year 2014-2015

SI No.	Work Sanctioned	Work Initiated	Work Completed	Work in progress
1.	Construction of kitchen cum dining block in Prefabricated structure.	Construction of conference room with Pantry and W.C at NIT Sikkim.	Construction of shed by DG set by tubular structure with Pre coated galvanized iron profile sheet roofing.	Roof treatment of existing buildings at NIT Sikkim temporary campus.
2.	Roof treatment of existing buildings at NIT Sikkim campus.	Construction of kitchen cum dining block in Prefabricated structure	Repair and renovation of Multipurpose hall for NIT Sikkim(Providing and fixing acoustic wall panelling, wooden flooring etc.	Construction of Prefabricated hostel in Phase I.
3.	Construction of Prefab hostel in Phase II.	Fixing of hand railing along with the road and surrounding playfield.	Fixing of hand railing along with the road and surrounding playfield	Construction of kitchen cum dining block in Prefabricated structure
4.	Construction of a computer lab to accommodate super computer.	Construction of Prefab hostel in Phase II.		Construction of a computer lab to accommodate super computer
5.	Construction of a water reservoir of 50,000.00 litres capacity.	Under process at various levels	Under process at various levels	Under process at various levels



SI No.	Work Sanctioned	Work Initiated	Work Completed	Work in progress
6.	Repair and renovation of Multipurpose hall for NIT Sikkim (Providing and fixing acoustic wall panelling, wooden flooring etc.	Under process at various levels	Under process at various levels	Under process at various levels
7.	Construction of conference room with Pantry and W.C at NIT Sikkim.	Under process at various levels	Under process at various levels	Under process at various levels
8.	Fixing of hand railing along with the road and surrounding playfield.	Under process at various levels	Under process at various levels	Under process at various levels
9.	Construction of Fluid mechanics laboratory.	Under process at various levels	Under process at various levels	Under process at various levels
10.	Construction of Structural laboratory.	Under process at various levels	Under process at various levels	Under process at various levels
11.	Construction of workshop.	Under process at various levels	Under process at various levels	Under process at various levels
12.	Construction of Playground at NIT Sikkim.	Under process at various levels	Under process at various levels	Under process at various levels



## 19.a. The following activities have also taken up

- Initiative related to Bus service, Vehicle purchase
- Initiative related to NKN, TEQIP
- Review of Institute's infrastructure, Land issue
- Coordination for HPC data center development at NIT Sikkim
- Water source maintenance for continuous supply of water at campus
- Review of Faculty-staff/student accommodation and related roof treatment
- Coordination for Research Lab development at NIT Sikkim campus
- Coordination for Student training & placement
- Coordination for Student exchange and delegation for Foreign Countries
- Coordination for National Unity Day, 31st Oct, 2014
- Coordination for Swatch Bharat Abhiyaan
- Coordination for school students' visit at NIT Sikkim



## 20. Academic Departments

## 1. Civil Engineering

Faculty Members in the Department:

- 1. **Mr. Samyajit Basu** (FIC of the Department)
- 2. **Mr. Sukanta Chakraborty**
- 3. **Dr.Sabyasachi Chandra**
- 4. Mr. Durgesh Vikram
- 5. **Dr. Mohan S C**

#### 1.a Facilities in the Department

Class Rooms and Computer Labs are centralized but can be accessed by Civil Engineering students at any time of the day.

#### **Laboratories:**

- 1. Surveying Laboratory with state of the art equipment including totals stations.
- 2. Material Testing Laboratory is in process of establishment (will be completed by February, 2016)

#### 1.b Programmes / courses offered by the Department

B.Tech. and PhD

#### 1.c Others

Faculties from Civil Engineering department are actively associated with construction and maintenance of NIT Sikkim campus.

## 2. Computer Science and Engineering

Faculty Members in the Department:

1. **Dr.Sangram Ray** (FIC of the Department)



- 2. Prof. A. B. Samaddar
- 3. Md. Sarfaraz Alam Ansari
- 4. Mr. Pankaj Kumar Kesarwani
- 5. Mrs. Gopa Bhaumik
- 6. Mr. Tarun Biswas
- 7. Mr. Banavath Balaji Naik
- 8. Mr. Utpal Kumar Sikdar
- 9. Dr.Alekha Kumar Mishra
- 10. **Dr.(Mrs) Shefalika Samaddar** (Guest Faculty)

#### 2.a Facilities in the Department

- The department offers four years B. Tech(CSE) degree, two years M. Tech(CSE) degree and PhD(CSE).
- The department has a comprehensive curriculum on topics related to all aspects of Computer Science with an emphasis on applicability that is provided using latest techniques of engineering.
- The course structure is up-to-date and includes courses on state-of-the-art to equip the students and teachers with the latest developments in the field.
- It is also proposed to develop interdisciplinary and multidisciplinary projects based on the expertise of faculty members.
- The areas of research are Cryptography, Network Security, Parallel-Distributed and High-Performance Computing, Algorithms, Bioinformatics, Computer Animation, System Software, Software Engineering, Cloud Computing and Wireless and Sensor Networks to build research groups and leverage the research activities in Sikkim in particular, and North-East region in general using a coordinated effort of various other organization working in the field of community development using science and technology.
- The Department has state-of-the art infrastructure supported by high speed Ethernet and wireless network.



#### 2.b Laboratories

- Programming Languages Laboratory
- Logic Design Laboratory
- Hardware Laboratory
- Data Structure and Algorithm Laboratory
- Operating System Laboratory
- Computer Network Laboratory
- Database Management System Laboratory
- Machine Intelligence and Robotics Laboratory
- Web Design Laboratory
- Cloud Computing Laboratory

#### 2.c Collaboration with other Department /institutes

- Bremen University, Germany
- Indian Institute of Technology, Kharagpur
- Indian Institute of Technology, Guwahati

#### 2.d Programmes/courses offered by the department

- B. Tech in Computer Science and Engineering
- M. Tech in Computer Science and Engineering with specialization in Information Security.
- PhD in Computer Science and Engineering

#### 2.e Land mark achieved

- Introduced M.Tech course.
- Introduced full-time PhD programme.



#### 2.f Special lecture / seminar workshop organized

- 17th workshop on "Computational and Information Processing" jointly organized with ISI Kolkata.
- Workshop on "National Mission on Education, Information and Communication Technology" funded by MHRD, Gov't. of India.
- Special lectures and laboratories visit for school students under community awareness programmes

## 3. Electrical and Electronics Engineering

#### **Faculty Members in the Department:**

- 1. **Dr. A.K Ray** (FIC of the Department)
- 2. Mr. Ashish Ranjan Raut
- 3. Mr. S. Sankar
- 4. Mr. T Kannan
- 5. Mr.Santanu Paul
- 6. Mr. Shiraj Sohail

## 4. Electronic and Communication Engineering

#### Faculty Members in the Department:

- 1. **Mr. Ajay Mahato** (FIC of the Department)
- 2. **Dr.Kaustav Bhomik**
- 3. **Mr. Surjit Kundu**
- 4. Miss. Reshmi Dhara
- 5. **Miss. Jaysree Roy**
- 6. **Mr. Hemant Kathania**



- 7. **Dr.Sumit Kumar Chatterjee**
- 8. Mr. Agile Mathew
- 9. **Mr. Sanjay Kumar Jana**

## 5. Mechanical Engineering

#### **Faculty Members in the Department:**

- 1. **Dr. Shambhunath Barman** (FIC of the Department)
- 2. **Dr. Partha Dey**
- 3. **Dr. Shouvik Ghosh**

#### 5.a Facilities in the department

 The Department of Mechanical Engineering was established in 2013 to produce globally competent Mechanical Engineers capable of contribution to society through innovation and working in multidisciplinary field.

#### **Laboratories**

In process: - Workshop, Fluid Dynamics Lab, Strength of Material lab.

## 5.b Programmes/courses offered by the department

- B. Tech in Mechanical Engineering
- PhD in Mechanical Engineering

## **5.c** Special lecture / seminar workshop organized

• Dr. Kshitij Gupta, Dept. of Mechanical Engg. IIT Delhi.

## 5.d Initiative taken / completed

• In process: Workshop, Fluid dynamics Lab, Strength of Material lab.



## 6 Department of Chemistry

#### Faculty Members in the Department:

- 1 **Dr. Sumit Saha** (FIC of the Department)
- 2 **Dr. Taraknath Kundu**

#### 6.a Facilities in the department

#### **Instrumental facilities:**

FT-IR and UV-Visible spectrophotometers, Low temperature bath, modern laboratories fitted with fume hoods.

#### **Journal facility:**

Access to Scifinderand Science Direct Journals,.

Any special lecture / seminar workshop organised

• Two day National level Symposium Recent Trends and Perspectives in Chemistry (RTPC) 2015 was organized. Chief Guest: Bharat Ratna Prof. C. N. R. Rao, JNCASR

## 6.b Programmes / courses offered by the department

- Chemistry (CY 1001)
- Chemistry laboratory (CY 1094)

#### 6.c Others

Organized Two INSPIRE Internships(Summer & Winter) where distinguished professors from different branch of basic sciences visited NIT Sikkim to inspire the 11–12th grade Science students from schools of whole Sikkim and adjoining Darjeeling district of West Bengal.



## 7. Department of Humanities & Social Science

#### **Faculty Members in the Department:**

- 1. **Dr. Dhananjay Tripathi** (FIC of the Department)
- 2. **Dr. Harikant Chaudhary**

## 8. Department of Mathematics

#### **Faculty Members in the Department:**

- 1. **Dr. Ravi Srivastava** (FIC of the Department)
- 2. Dr. Om Prakash

## 9. Department of Physics

#### **Faculty Members in the Department:**

- 1. **Dr.Nurujjaman** (FIC of the Department)
- 2. Dr. Prasad Basu

#### 9.a Facilities in the department

The Departmental Laboratory has following facilities

- 1. B. Tech experimental equipment
- 2. Research equipment to study effect of noise in electronic ckt.
- 3. Radon Gas detector for research in the field of earthquake.
- 4. Workstation for end numerical simulation and GPU computing

#### 9.b Collaboration with other institutes

 Radon gas detection facilities has been installed in collaboration with Jadavpur University

## 9.c Programmes / courses offered by the department

- Physics, Basic Sciences
- Electromagnetic filed theory
- Solid state Devices



#### 21. Various Invited Lectures

S. NO	Name of the Speaker	Designation	Lecture Topics
1	Dr. Amretashis Sengupta	Post-Doctoral Fellow, Nano Scale Device Research Laboratory, Department of Electronic Systems Engineering, Indian Institute of Science (IISc), Bangalore – 560 012, India	2-Dimensional Channel Materials based Next Generation Nano-scale MOS devices.
2	Prof. Singam Jayanthu	Mining Engineering Department, NIT Rourkella-769008	URGENT NEED OF INTERDISCPLINARY RESEARCH FOR MINING INDUSTRY
3	Dr. Puneet Sharma	Department of Information and Communication Technologies IIT Jodhpur	Sensitivity and Chaos in Discrete Dynamical Systems
4	Dr. Arunabha Thakur	Post-Doctoral Fellow, Department of Chemistry, TU Dresden, Germany and INSPIRE faculty Awardee	Synthesis of Stabilized Low Valent Mixed Binary Pnictogens and B (I) Compound for Small Molecule Activation

#### 22. Publications:

- Sangram Ray and G. P. Biswas, "A Certificate Authority (CA) Based Cryptographic Solution for HIPAA Privacy/Security Regulations", Journal of King Saud University-Computer and Information Sciences, Elsevier, 2014, vol. 26, no. 2, pp. 170-180.
- Sangram Ray and G. P. Biswas, "Design of an Efficient Mobile Health System for Achieving HIPAA Privacy-Security Regulations", *International Journal of Wireless and Mobile Computing, Inderscience,* 2014, vol. 7, no. 4, pp. 378-387.



- "a-Ferrier rearrangement of carbohydrate derived vinylcyclopropanes: a facile approach to oxepaneanalogs" V. Ganesh, TaraknathKundu, S. Chandrasekaran\*, Tetrahedron 2014, 70 (40), 7268 7282 (Invited article forSpecial Memorial Issue for Professor Sandy McKillop)
- "Concise and simple synthesis of 1-aryl-2-hetero alcohols: advanced intermediates for the synthesis of naturally occurring bio-active small molecules" Sumit Saha, Pushkin Chakraborty, Subhas C Roy\* Journal of Chem. Science, 2014, 126, 837.
- On the possibilities of shock formation in the relativistic accretion and wind flows, Mondal, Soumen and BasuPrasaad, 40th COSPAR Scientific Assembly. Held 2-10 August 2014, in Moscow, Russia, Abstract E1.5-75-14.

## 23. Information Communication Technology (ICT) Facilities

- 1. All class rooms have the projectors and projector screen
- 2. Wi-Fi an LANs have been implemented in most of the place of the campus
- 3. Computer Labs, offices computers are on LAN.
- 4. Uninterrupted Threat Management for network has been implemented
- 5. Library Server has been implemented
- 6. Photostat machines, printers, scanners etc. have been implemented in most of official places
- 7. 155 Mbps internet link is stable up to 80%.



#### 24. Various Events & Celebrations

#### 1. Udgam-14

Udgam – The annual Cultural fest of National Institute of Technology Sikkim started its journey with its first chapter during 17April to 19th April 2014. The three days long festival witnessed huge response from students of the institute. Initially there were some doubts regarding the success of such a long cultural festival since the institute lacks in terms of infrastructural festival but with the hard work of the students and motivational support from the administration of the festival was a huge success.

During these three days there were myriods day-event and on each night there were cultural performances. Events like Tug of War, Selfie, Anagram, Hindi word competition, PC Gaming, Card Tower, Know India, Know Sikkim, DrumbShreads, Fashion show, were organized during day followed by the cultural nights.

There was a open competition among students for the logo of the cultural fest, Udgam which saw more than 100 entries and finally the below mentioned logo was selected:



## 2. Abhiyantran-14

Abhiyantran, the annual Technical Festival of National Institute Of Technology Sikkim, born this year with the pursuit of promoting creativity, innovation and technology to herald the future society into an age of evolution brought over by revolution in technology, is the land of enlightenment where the competence of innovation is never going to fade. Abhiyantran will keep you engrossed in a grand feast of professional shows, competitions and lectures, from where you will return with ignition and lots of inspiration. With some of the innovative and sharp minds of nation under the grand umbrella of ABHIYANTRAN, one can expect to go back ignited with innovation and inspiration to invent something new. Abhiyantran will also have world renowned pioneers of technology interact with curious young minds and cultivate solutions to ease the common man of his conventional yet significant problems. Abhiyantran not only showcases the culmination of the technical advancement but also aims to construct a platform for the youth to empower sections of community through eco-friendly and sustainable initiatives of ignition. Abhiyantran is purely managed by an IGNITED team of students,



comprising of over 50 main coordinators under the enlightened guidance of faculties of NIT Sikkim. ABHIYANTRAN and NIT Sikkim strive relentlessly towards excellence and perfection.



#### **Ignite:**

Creativity in humans is almost in-born, every student is creative, and degrees may vary but not the basic manifestation. Each of us has a spark of life and our highest endeavour ought to be set off that in one another. TO LEARN TO READ AND CONVEY THROUGH ACTIONS IS TO LIGHT A FIRE.

#### **Invent:**

Invention distinguishes between a leader and a follower. You have to have a big vision and take very small steps to get there. You have to be humble as you execute but visionary and gigantic in terms of your aspiration. It's about a lot of little innovations: every day, every week, every month, making something a little bit better.

## 3. Inspire Winter Internship 2014

**Inspire Camp:** In its pursuit of innovation in Science and Technology; National Institute of Technology Sikkim, after the successful organization of INSPIRE Summer Internship Camp, is now coming up with the *Inspire Winter Internship 2014*. The camp will be held during December 10-14, 2014 at the Ravangla Campus of NIT Sikkim. Students from all most all senior secondary schools of Sikkim have registered themselves for the event. Nominations are also received from the neighbouring districts of west Bengal. The five day long residential camp is fully funded by DST under MHRD for which no fee is charged. The inspire camp will provide the budding students of the state an opportunity to interact with some of the best Scientist and technocrats from IITs, NITs, IIScs and Central Universities. Through the inspire camp and such events NIT Sikkim reiterates its one of the objectives of orienting the youth of Sikkim towards innovation and research.



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This time the winter camp will provide the participants a rare opportunity to interact with people like Prof. Arun Chattopadhya of IIT Guwahati, Prof. Ashok Kumar Ganguli of IIT Delhi, Prof Bitrendra Nath Mallick of JNU and Prof Arun B. Samaddar, Director NIT Sikkim. Prof Tushar Kanti Chakraboty of IISc Banglore and many other scientist of international repute will also address the participants.

The internship will also feature a cultural night – SPIC MACAY, an initiative to promote Indian traditional culture among youths. SPIC MACAY will showcase performances by renowned vocalist Shri Debapriya Adhikary, an excellent Sitarist Shri Sawanwaya Sarkar and well known Tabla artist Shri Subrata Manna. The cultural night will be held on 12th December 2014

## 4. Rashtriya Ekta Diwas (National Unity Day)

National Institute of Technology Sikkim celebrated RashtriyaEktaDiwas(National Unity Day) on 31st October to commemorate the birth anniversary Sardar Vallabh bhai Patel. Under the instruction of the Ministry the oath taking ceremony was also held. Everyone participated enthusiastically in the programme to pay rich tributes to the national hero who was the first Home Minister of our country.

#### The celebration witness following activities:

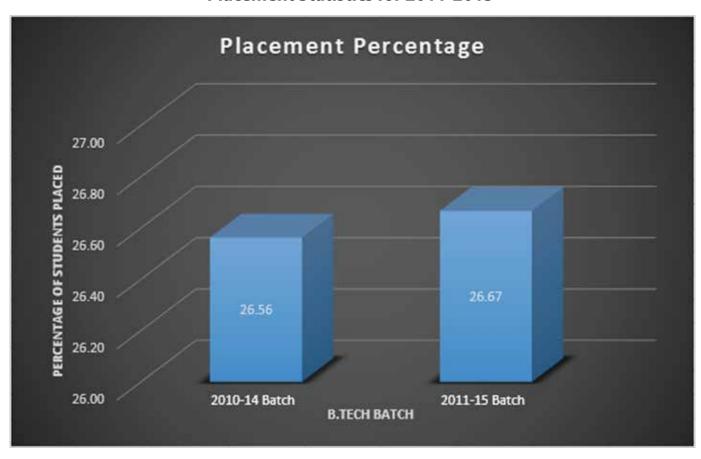
- 09:00 AM Assembling in the ground.
- 09:10 AM Garlanding of Sardar Vallabh bhai Patel's Portrait by Faculty, Guest and Students.



- 09:15 AM Administering Rashtriya Ekta Diwas (National Unity Day) pledge by Students and staff led by Asst. Dean Student Activities.
- 09:20 AM Address to the students on the occasion of National Unity Day Celebration by Asst. Dean Students Activities, Student Affairs, Asst. Dean Administration NIT Sikkim.
- 10:00 AM National Anthem
- 5. Independence day Run: To show the solidarity and unity a short marathon is organized on the independence day wherein students, Faculty and Staff participate and spread the message of unity in diversity.
- **6. Swachtaabhiyan:** Under the instruction of MHRD the institute organizes Swach Bharat Abhiyan to clean the nook and corners of the campus and Ravangla City.
- 7. RTPC: National Institute of Technology Sikkim organized a National Symposium on "Recent Trends and Perspectives in Chemistry-2015" during 23-24 January 2015. The symposium was an initiative taken by the Institute to bring renowned scientist and Researcher from different parts of India under one roof. The basic objective of the initiative is to encourage and promote the dissemination of Science and Technology among the present generation. The symposium witnessed the presence of Bharat Ratna Prof C.N.R. Rao, renowned academicians like Prof Anunay Samanta from University of Hyderabad, Prof. G.K. Lahiri from IIT Bombay, Prof. Srinivasan Chandrasekaran from IISc, Bangolore and Prof Ashutosh Pandey from MNNIT Allahabad. The two daylong symposium will also witness the presence of researcher from all across Sikkim and the country.



## **Placement Statistics for 2011-2015**





#### 25. OTHER FACULTY/ STUDENT ACTIVITIES



Prof. AB Samaddar, Director while hoisting the tri colour on Independence Day celebration



Director being introduced to the team members of volleyball during independence day celebration



Director and faculty members in a Friendly match with students



Bharat Ratna Dr. CNR Rao during RTPC in January 2015



Swachtaabhiyan



Run for Unity on 31October 2014



Inspire camp in December 2014 for the class 12th Students of the state



## 26. Constitution of Reporting Team

## **Report Prepared & Compiled By:**

## Dr. Dhananjay Tripathi

(Faculty In-charge Reporting and Publication Activity Committee) Faculty Dept. of Humanities and Social Sciences, NIT Sikkim

## Mr. B. Balaji Naik

Faculty Dept. of Computer Science and Engineering, NIT Sikkim

#### **NOTE:**

Appendix A: SAR report of AG Sikkim 2014-15 Appendix B: C.A. Audit report 2014-2015