





Since its inception NIT Silchar has had a vision to provide quality technical education and to act as a centre of exvellence for engineering and scientific research. Today NIT Silchar is considered a national brand and attaining this position, a major contribution has come from our faculty and staff as well as our students and the alumni. NIT Silchar is now considered one of the best institutes in the whole country in terms of placements and overall performance.

Our study programmes, here at NIT Silchar, are designed to instil leadership, teamwork, and global focus among learners. The undergraduate and postgraduate as well as the Ph.D programmes are continuously and closely monitored and regularly revised to include latest trend-setting technological theories and practices.

FROM DIRECTOR'S DESK Prof. Rajat Gupta DIRECTOR, NIT SILCHAR



FROM FACULTY IN CHARGE DESK

NIT Silchar is one of the oldest T-schools in the country and the oldest in this region. We had the privilege to host more than 90 companies in 2016-17 session culminating in more than 95 percent placement. The Industry-Institute linkage is getting cemented over the years. The courses here are regularly restructured to meet the ever-changing industry requirement. The institute now offers Masters and PhD programmes in all branches. We have further broadened the scope of education through the inception of our very own MBA Department. We earnestly request you to be a part of the NIT Silchar community and contribute your share by way of taking an active part in building in the Industry-Institute interface which can only help maintain our competitive edge.

The technical class we are training today will be the problem solvers and visionaries of tomorrow.

Dr. NB Dev Choudhury FIC,T&P Cell

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ABOUT THE INSTITUTE



NIT Silchar was established as an REC (Regional Engineering College) in 1967. In the year 2002, was transformed into an NIT and bestowed with the status of deemed university. Subsequentlyin the year 2007 it was upgraded to "An Institute of National Importance". NIT Silchar has since then built an international reputation in the field of technology, innovation and research. The programmes and courses that are offered at NIT Silchar are perpetually evolving to adapt to the ever changingglobal requirements. Stuents are selected through JEE- Mains for B.Teh programme and GATE for M.Tech programme. Less than 2% of the total appeared to make it to the NITS. Being one of the best engineering college in East India we have the proud presence of state-of-the-art labs, Centre for Development of Advance Computing and full functioningResearch Promotion cell has helped the institute become one of the the nation;s nerve centre for research and development and technical education.

The sprawling, lush and opulent campus, covering an area of 600 acres, state of the art support system and excellent infrastructure add up to its reputation of producing the brightest minds of the country.



WHY NITS?

NITS-NURTURING INNOVATION SINCE 1967

A LEGACY OF MORE THAN 46 YEARS

Right from its inception NITS(then REC) in 1967,has played a pivotal role in delivering to the technocratic demands of the world. THe alumni of the institute have approved its worth in global arena and many of them designated in senior positions at highly respected institutions.

CREAMY LAYER STUDENT COMMUNITY

Out of this massive crowd of about 1.3 million aspirants applying for JEE, about top 1.5% make it to the most sought after and highly respected institutions like NITS. Out of which NIT Silchar offers seat to only 0/04% of the total aspirants.



THE ACCOLADES

We are ranked 31st in the country by OUTLOOK and 25th by DATAQUEST. This NBA accredited institute also won the award for second time in 2015 for being the best engineering college in Eastern India by ASSOCHAM.

INDUSTRIAL AUDIT COURSES

Enrichment of the academic programme, with the introduction of Industry oriented Audit Courses, open and inter-departmental electives, promotion of interdisciplinary research allows students to expand their horizon of learning and to diversify their knowloedge.

HIGHLY QUALIFIED FACULTY

The faculty, besides doing world class research, ensure that the students of the campus are ready to face the challenge of the professional world by providing them with a sound conceptual understanding of their respective disciplines, and also by playing a huge role in their development as individuals who can lead and lead well.

AN INSTITUTE OF NATIONAL IMPORTANCE

With an average annual funding of Rs 150 crores received by the institute, the country envisions its future in us. Identified as a Centre of Excellence by the Government of India, the institute is reinventing itself to crush the competition from its contemporary in various domains.

INDUSTRY INSTITUTE INTERFACE

NIT Silchar has signed MoUs with various organisations of international repute(like C-DAC, NASSCOM, National Instruments, IBM,TATA Technologies, University of Illinois and many more) which facilitates the students with regular Industrial training exposing them to a practical working environment. Moreover students pursue Industrial, managerial and research internships in leading Multinational firms and Research Labs contributing substanstially to the industry. Intensity and rigour of the Practice School Programme makes our students employment ready to take on work life challenges.

CONNECTED LOCATION, VIVACIOUS SPIRITS

The campus is home to students from 29 Indian states and 15 countries.

The vibrnant socio-cultural system moulds ourstudents into easily conformable species, ever-ready to adjust everywhere. Using the power of Technology the ever motivated students of NITS make themselves true proffesionals.



ACADEMIC LIFE

NIT Silchar has always stood for the best in education and pedagogy. We design our courses to promote deep understanding and learning of concepts and our curriculum is constantly evolving, keeping in sync with global research. The following are some of the key components of curriculum at our campus. The programme structures for all our disciplines have been designed to challenge the brightest minds. Each academic year is divided into 2 semesters, with the following outline:

Programmes in NITS

Undergraduate programmes

Bachelor of
Technology(B.Tech)
Admission through: JEE Main
Duration: 4 years
Stream: Mechanical, Electrical,
Civil, Computer
Science, Electronics and
Communication, Electronics
and Instrummentation



Graduate programmes

Master of Technology (M.Tech)
Admission through:
GATE+Interview
Duration: 2 years
Assistantship: Affliated to course instructors or research projects
M.Tech Project: I year
Master of Science (M.Sc)
Admission through: JAM
Duration: 2 years
M.Sc Project: I year

Masters of Business Administration

Admission Through:
CAT/MAT/CMAT+G.D+P.I.
Duration: 2 years
Focus: Marketing, Finance, Human
Resource
MBA Project: I year



PROFILE

The department of Mechanical Engineering offers a 4-year B.Tech programme, a 2-year M.Tech programme in Thermal Engineering and Manufacturing & Design Engineering besides doctoral programmes in various areas of the disciplines...

CORE

Themodynamics Manufacturing Processes Machine Drawing Material Science Theory of Machines and Mechanisms Machine Design Mechanics of Solids Heat Transfer Turbo Machinery Theory of Metal Cutting Power Plant Engineering Dynamics and Control of Machinery Engineering Inspection and Quality Control Industrial Engineering and Operation Research Refrigeration and Air Conditioning Mechanics of Fluid

LABS

Thermal
Thermodynamic Lab
Heat Transfer Lab
IC Engine Lab
Refrigeration and Air Conditioning
Automobile Lab
Engine Research Lab
Turbo Machinery Lab
Fluid Mechanics Lab
Renewable Energy Lab
Gas Dynamics Lab
Non Conventional Lab
Energy Research Lab



ELECTIVE

IC Engine
Compressor and Gas Turbine
Mechanical Vibrations
Tool Design
Production and Management
Energy Engineering and Management
Gas Dynamics
MEMS and Nanotechnology
Hydraulics Machines
Finite Element Method in Engineering
Robotics and robot Applications
Solar Architecture
Air Conditioning
Supply Chain Management

Design

Engineering Mechanics lab Machine Dynamics Lab Instrumentation LAb Solid Mechanics Lab Computational/CAD Lab (ANSY,ProE,AVL FIRE,MATLAB)

PRODUCTION

CNC LAB
Advanced Manufacturing Engineering LAb
Material Testing Lab
Metrology Lab
Condition Based Monitoring Lab
Micro-Nano Manufacturing Lab

The department of Civil Engineering was set us in 1977 and ever since, it has been constantly been imparting quality technical education, preparing the students to face challenges along with meeting social and human needs. The department has an experienced and distinguished faculty with diverse specializations, further complemented by good lab facilities and an exemplary ambience for research and development.

CORE

Strength of Materials **Building Materials and Construction** Surveying Fluid Mechanics **Engineering Geology** Transportaion Engg-I Structural Analysis Tranportation Engg Estimation and Evaluation Environmental Engg-1 Geotechnical Engg Structural Analysis-II Structural Design-I Functional Planning of Buildings Structural Design-II Environmental Engg-II Hydrology and Flood Control Humanities-III(Managerial Economics) Numerical Analysis and Computer Application in Civil Engineering

ELECTIVE

Irrigation Engg **Environmental Studies** Earthquake Engg Advanced Foundation Engg Advanced Environmental Engg Matrix Method of Structural Analysis Advanced Surveying Ground Improvement and Rock Mechanics Bridge Engineering Water Resources Development Ground Water System Management Urban Transportation System Traffic Engineering Elements of Remote Sensing and GIS Railway Engg Advanced Structural Engineering Finite Element Methods in Engg Optimisation Methods in Engg Design

LABS

Transportation Engg Surveying Geotechnical Engg Hydraulic Engg Lab Concrete and Structure Lab Environmental Engg Practical Engineering Geology Numerical Analysis and Computer Application in Civil Engg



PROFILE

In order to keep pace with the ever changing industry requirements, the course of electrical engineering has been designed to meet the demands of the competitive market. It also includes courses in communication, computer architecture, signal processing and integrated VLSI design. The department also boasts of its high quality experienced faculty members. The department offers a 4 year B. Tech degree and a 2-year M. Tech degree besides Ph.D in various advanced areas of Electrical Engineering.

CORE

Power system Control System, Circuit Theory Electric Devics **Electrical Machines** Industrial Electronics Electromagnetic Fields Principles of Communication Switchgear and Protection Industrial Instrumentation Linear and Digital ELectronics Electrical Engineering Materials Signal Processing and applications Measurement and Measuring Devices Microprocessor and Microcontroller systems and their applications Renewable Energy Source and Management

Programming and Data

Structure

ELECTIVE

High Voltage Engineering
Higher Control System
Digital Computer Organisation
Computer Application in Power System
Hydro Electric Engineering
Electric Power Utilisation and Traction
E.H.V., A.C. and D.C. Transmission
Industrial Management
Control System Components and System
Design
Fault Detection and Diagnostic
Electrodynamics and Advanced Field
Theory

LABS

Electric Machine Lab
Control and Instrumentation
Measurement and Instrumentation
Lab, Power Electronics Lab
Microprocessor Lab
Drives Lab
Energy Lab
Power System Lab
Circuit and Network Theory Lab
Digital and Analog Lab
Photovoltaic Lab
Relay Testing Lab



PROFILE

The Department of Electronics and Communication Engineering offers a 4-year B.Tech Degree,2-year M.Tech degree in 'Micro-Electronics and VLSI Design' and Ph.D in various areas of the discipline. The faculties of the department have wide variety of expertise with strong academicbackground and are the alumni of reputed institutes across India. The graduates of the department are placed in various organisations across the globe. Mock tests, group discussions, quizzes, seminars and pre-placemetn interviews are organised for the students to give them real-time exposure to the placement drives.

OF ELECTRONICS AND COMMUNICATION ENGINEERIN DEPT (

CORE

Basic Electronics Signals, systems and Networks Analog Electronics Circuits Power Electronics Semiconductor Devices and Circuits Principles of Communication Engineering RF and Microwave Engg Pulse and Digital Electronic Circuits Analog Electronic Circuits and Technology Digital Communication Probability and Random Processes Computer Organization and Microprocessors Introduction to VLSI Design Electromagnetic Field Theory and Propagation Digital Signal Processing Measurement and Instrumentation

Principles of optoelectronics and

ELECTIVE

Advanced Microprocessors Optical Communication Networks Digital Image Processing Satellite Communication Information THeory, Coding and Cryptography CAD for VLSI Bio-medical instrumentaion **Embedded Systems** Advacned VLSI Design Antenna & Wave propagation Smart Antennas for Wireless communication Analog IC Design VLSI-DSP based Designing Mobile and Cellular Communication Digital Speech Processing Low Power VLSI Design Telecommunication Switching and Networks RF and Microwave ICs

LABS LEC DEC Microcprocessors **VLSI** Communication Control DSP Advanced Communication





To provide students with strong onceptual foundations(theoretical and experimental), expose them to the forefront of the developments in the field of computing and produce computer science graduates who,trained in the design, implementations and analysis of computational systems and skilled in technical communication, will contribute towards the advancement of computing science and technology.

CORE

Introduction to Computing Data Structure Object Oriented Design Discrete Structures Formal Language and Automata Theory Signal & Data Communication Computer Graphics Computer Architecture Computer Network Microprocessor & System Processing Operating System Compiler Design Design and Analysis of Algorithm Database Management System Software Engineering **VLSI** Design Theory of Computation Advanced Computer Architecture Machine Learning

ELECTIVE

Parallel Algorithms Advanced Database management systems Modelling and Simulations Computer Systems Performance Evaluation Information System and Management Computer Graphics and Applications Object Oriented Programming Fuzzy Logic and Neutral Networks System Analysis and Design Artificial Intelligence Pattern Recognition Machine Intelligence

LABS

General Purpose Computer Centre Database Management Lab Operating System Lab Data Structure Lab UNIX Lab SUN Workstaions DEC alpha workstaion IBM RS/6000

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PROFILE

Instrumentation Engineering is a multidsciplinary stream and encompasses course of mechanical, chemical, electrical, electronics and computer science. The aim of the department is to produce graduate engineers capable of handling design, construction, and maintenance of modern instrumentation systems, thereby improving system productivity, reliability, safety optimisation and stability.

DEPT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

CORE

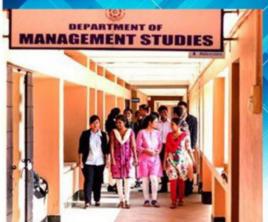
Electrical & Electronic Instruments Electronic Circuits Transducer Engineering ProcessEngg- 1 Linear & digital Electronics Computer Networks Digital Electronics & logic design Control Systems Industrial Instrumentation - I Communication Engg Digital Signal Processing Data Structure Power Electronics Microprocessors & Microcontrollers Process Engg.-II Industrial Instrumentation - II Computer Controlled Processes IC &VLSI Design Virtual Instrumentation Real Time and Embedded Systems

ELECTIVE

Neural networks and Fuzzy Logic Robotics and Automation Artificial Intelligence and Expert Systems Computer Control of Process PC Based Instrumentation Operating System Data Base Management Systems Wireless Communication Power Plant Instrumentation Instrumentation in Petrochemical Industry Design of Process Control System Components Bio-Medical Instrumentation Digital Image Processing Modelling and Simulation Process Dynamics and Control Adaptive Control Fibre Optics and Laser Instruments Mechatronics Mobile cellular Communication MEMS and Nano Technology Web Based Instrumentation

LABS Intrumentation Lab Process Control Instrumentation Lab VLSI Lab





he department offers a 2-year MBA degree which is designed to cater the need of corporate sector. It came into existence on 21st August 2012, and in this short span of time, it has built a national reputation in the field of management of innovation and research. The department has excelled with 100% placement consecutively for the previous two batches in some of the finest corporate.

VISION

The vision of NIT-DoMS is to be a centre of excellence where the synergies of technology and mangement will be blended to serve the global challenges of business and industry in the 21st century's dynamic business environment.

MISSION

To impart quality knowledge and modern skills through innovation and continuous development of the cometencies and transforming the budding youngsters into leaders of the corporate world and creating knowledge pool through frontier research.

ACTIVTIES

To nurture the managers of future the dept organizes several activities. Some of which are -Industrial visit to NRL, Numaligarh PAARBON, a Management Fest Case Study Competitions Frequent Interactions with Industrial Personnels and Guest Lectures

TRAINING AND PLACEMENT CELL NITS



Core subjects

Management Practice &
Organizational Behaviour
Managerial Economics
Accounting for Managers & Control
Marketing Management
Quantitative techniques
Human Resource Management
Business Communication
Business research methods
Production & Operation Management
Economic & Legal Environment
Management Information System
Financial Management
Strategic Management
Business law & Corporate Taxation

Supply Chain Management
Technology & Innovation Management
International Business & E-Commerce
Entrepreneurship & Project
Management
Business Ethics & Corporate
Governance

MARKETING

Product & Brand Management
Sales & Distribution Management
Consumer Behaviour
Integrated Marketing Communication
Rural Marketing
Marketing of Services
Strategic Marketing

FINANCE

Security Analysis & Portfolio Management Personal Financial Planning Financial Markets & Services Derivative & Risk Management Banking & Financial Institutions Insurance Management Forex Management

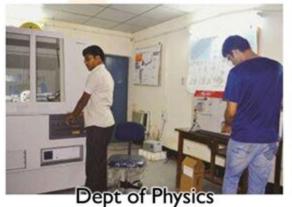
HUMAN RESOURCE

Training & Development
Industrial Relation & Labour Laws
Strategic HRM
Performance Management System
Organisational Change &
Development

NON ENGINEERING DEPARTMENTS

Deptt.	Faculty Strength	Ph.D		No. of
		Completed	Ongoing	Publications
Mathematics	6	2	7	39
Physics	9	5	12	66
Chemistry	7	3	16	11
HSS	7	5	29	8







STATS OF STUDENTS

Mechanical Engineering: 129
Computer Science and Engineering: 96
Electrical Engineering: 107
Electronics and Communication Engineering: 117
Electronics and Instrumentation Engineering: 54
Civil Engineering: 110

ACHIEVEMENTS

HIGHLIGHTING few of the many DREAM INTERNSHIP
OPPORTUNITIES and ACHIEVEMENTS FOR THE BATCH OF
2018

MICROSOFT SMSG: ABHISHEK KUMAR (MECHA), ANSHIKA BHARGAVA (CSE),

CHANDRAMITA DUTTA(EIE)

GOOGLE SUMMER OF CODE(GSOC): ABHISHEK DAS(EE)
ACM ICPC:

MAX PLANCK INSTITUTE, GERMANY: ARGHADWIP PAUL (MECHA)

GENERAL MOTORS: ANIRBAN ROY(CSE)

University of Michigan Research Intern: HrishikeshDutta (ECE)

GE EDISON CHALLENGE: A TEAM OF MECHA STUDENTS GOT SELECTED FOR GE EDISON CHALLENGE 2016 Human Powered Vehicle Challenge- Asia Pacific: Under the able leadership of Abhishek Deb, NIT Silchar secured the 18Th position.

CAMPUS LIFE

The fully residential institute providing accomodation to all the faculties & students is endowed with great infrastructure like Students Activities Centre (SAC), Gymnasium, auditoriums, indoor & outdoor stadiums and Central Library which are hotspots of different student activities round the year. Various active groups like Entrepreneurial cell, Aisec, ISTE, SEESI, GyanSagar, NGC, NSS, SAE help students to explore their creativity. Students also plan, organize and manage various national and international level of cultural & techno-management festivals enhancing their managerial abilities & soving practical challenges while working in a team.

INCANDESCENCE

The annual cultural fest of NIT Silchar. It is one of the most awaited events of the college all through the north-east. This falls in the month of February.

Students from various college from all over the country participitate in this festival.

TECNOESIS

It is the technical festival of NIT Silchar. This fest falls in the month of October. Here we see young and energetic minds showing their skills. Various events like Robotics, Paper Presentations, Quizzes & lots of exciting events take place for a span of three days.

THUNDERMARCH

It is the annual metal fest of NIT Silchar. It falls in the month of February-March along with Incandescence and features enthralling and earth-shaking performances by various metal bands from India as well as famous international bands. Previously headlined by Nale (TM'13) and Deathember (TM'14).





POSUA

It is the annual celebration of RONGALI BIHU in NIT Sichar that marks the beginning of the Hindu Solar Calendar Year. It is a showcase of Assamese culture and features performances such as the traditional Bihu and other cultural performances by famous Assamese personalities. It is generally held in the month of April.



Subhankar Ghose Head, Human Resources - ABP NEWS NETWORK Jumee Hazarika Additional Director, DISB -DRDO



Jeez Lazar Executive Director - JP Morgan





Vikalp Sahni Co-founder, Chief Technology Officer - GOIBIBO



Prasanta Kumar Das Vice President, South Asia -DASSAULT SYSTEMS Rohit Mathur President - USHA INTERNATIONAL



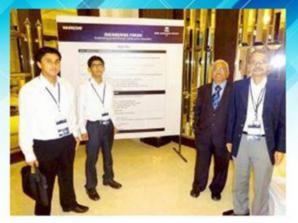
Dr. Soumyabrata Chakrabarty Head, Microwave Sensors Antenna Division - ISRO





Utpal Das Chief Commercial Officer -VIACOM 18 MEDIA PRIVATE LIMITED

INSTITUTE-INDUSTRY RELATIONSHIP



TATA Technologies - NIT Silchar's significant relationship with eminent PLM leader TATA Technology has enhanced the innovative technical environment of the institute. The students have been actively involved in managing the NPI process and collaborative engineering (PLM) and tying together information created and used throughout the extended manufacturing enterprise (ESG).

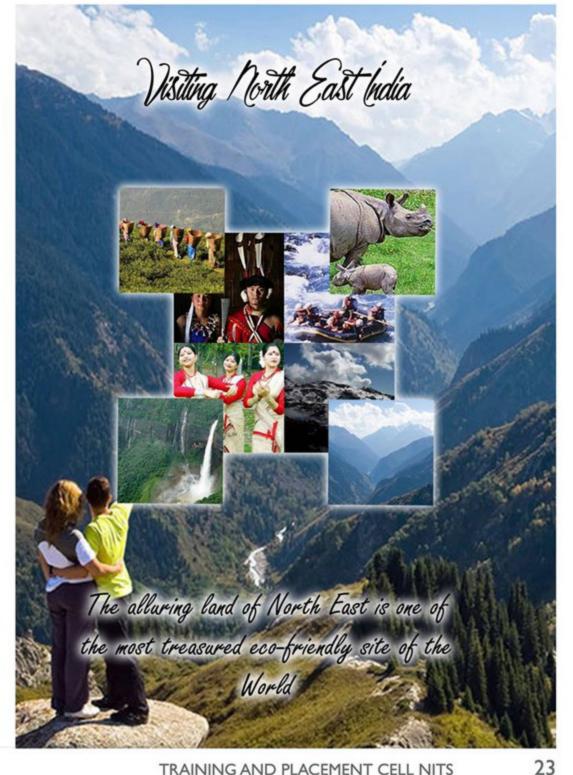
National Instruments - Center of Excellence - NITS has collaborated with National Instruments to integrate all the technologies for problem solving, accelerated productivity, and continual innovation. As a part of this collaaboration students have access to all the ground breaking National Instruments tools and a graphical programming platform that helps engineers scale from design to test and from small to large systems.

NASSCOM - Association with NASSCOM, provides NIT Silchar a unique opportunity for an organisation and its professionals to engage and drive thought leadership. To increase the funnel of available quality students 'at entry' level, NIT Silchar introduced NASSCOM suggested Foundation Skills in Integrated Product Development(FSIPD) to be run as an add-on program in the institution.

C-DAC - NIT Silchar in partnership with Centre for Development of Advanced Computing(C-DAC) for establishing the NIT Silchar(NITS) Supercomputing Centre which will be one of the most powerful machine in the North East India with x86 64 bit based latest Intel Ivy Bridge processing and Accelerator (Intel Xeon Phi and Nvidia Kepler based CO-processing technologies) interconnected with Mellanox FDR Infiniband with RHEL OS on servers, IBM Platform Computing(Job Scheduler, Cluster Manager, Integrated Portal for Job Submission) and Intel Cluster Studio having a compute power of approximately 15 Tera Flops.

IBM - Part of the IBM Shared University Research Project to support the NLP research augmentation for Spoken Web Project.





Training and Placement Cell

The T&P Cell not only acts as a facilitator for training and placement but also works towards the overall development of the students. It works under the guidance of the Training and Placement Officer in consultation with FIC. It primarily works as a liaison between industry and institute.

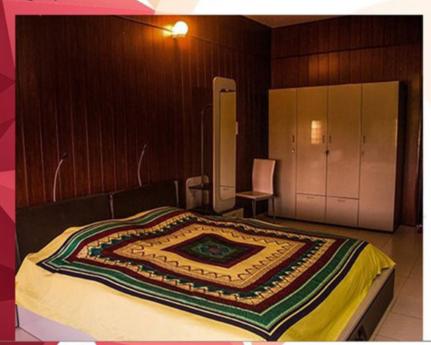
FACILITIES

State of the art guest house with A/C rooms.
Auditorium for pre-placement talks and seminars.
Fully furnished group discussion and interview rooms.
Fully computerized office.

Internet connected computer lab devoted to training and placement.

Student coordinators for any kind of assistance during visit.

Computer lab with 100 systems interconnected by LAN and high speed internet for online tests.



Placement Coordinators Branchwise

Civil:

ASHUTOSH KUMAR RAI, SUBHAM YADAV, PHANINDRA MEESALA

Mechanical:

DEBAYAN DATTA CHOUDHURY, ABHISHEK DEB, PRATULYA AGARWAL

CSE:

CHINMOY SHEKHAR DAS, ARUN NAINWAL

ECE:

KAUSHIK MAHANDEO, MAYANK DHIRASARIA

EE:

PRATYUT RAUT, ABHIJIT GHOSH, ADITYA MARKANDEY

EIE:

PULKIT DHAUNDIYAL, HEMANTA BORA, ANKIT SAINI



Placement Records



Interested companies contact NIT Silchar Training and Placement Cell through e-mail,

tnp@nitsilchar.in/
tnp.nits@gmail.com





Training and Placement Cell will send a Job Notification Form (JNF) alongwith formal invitation and relevant information by e-mail.



Placement office allot slots based on JNF and availability.



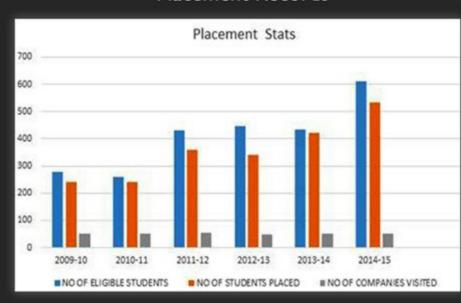
After allotment of date, the company visits the campus and conduct various stages of placement.



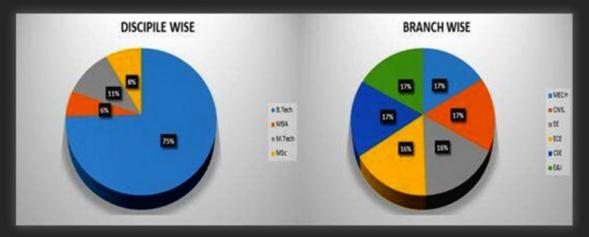


After the completion of selection procedure the company is required to announce the final list of selected students on the day itself.





Student Distribution



OUR ESTEEMED RECRUITERS:





























snapdea















Power











NOKIA



IndianOil

































Mahindra







































!dea



UNISYS













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PLACEMENT COORDINATORS

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Chinmoy Shekhar Das: 9957431732 Arun Nainwal: 8135044967

Pratulya Agarwal: 9954158748

Debayan Dutta Chowdhury: 8473912066

Abhishek Deb: 9577131584

Abhijit Ghosh: 8011610441 Pratyut Rout: 9438096603 Aditya Markandey: 8521303088

Kaushik Mahandeo: 9678894247 Mayank Dhirasaria: 8876209266

Ankit Saini: 8133802837 Pulkit Dhaundiyal: 8134859899 Hemanta Bora: 8135037873