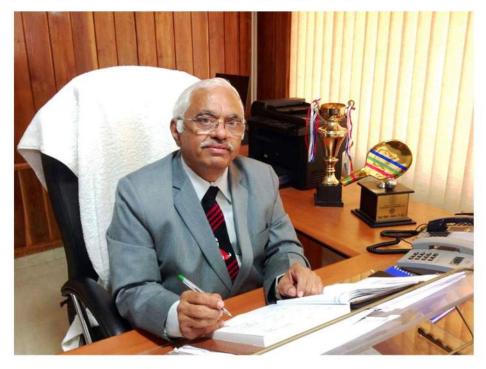


DIRECTOR'S MESSAGE



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

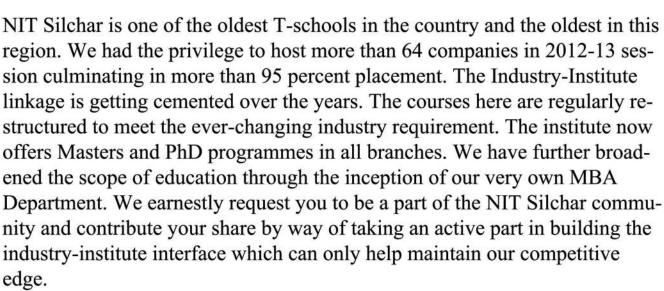
Our study programmes, here at NIT Silchar, are designed to instil leadership, teamwork and global focus among learners. The undergraduate and the Postgraduate as well as the Ph.D programmes are continuously and closely monitored and regularly revised to include latest trend-setting technological theories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

Jai Hind.

Prof. N.V Deshpande DIRECTOR, NIT Silchar







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



Dr. N. B. Dev Choudhury FIC, T&P Cell



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. Subsequently in 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 changing global requirements. Students are selected through JEE-Mains for B.Tech programme and GATE for M.Tech programme. Less that 2% of the total appeared make to the NITS. Being one of the Best Engineering College in East India we have the proud presence of state-of-art labs, Centre for Development of Advance Computing and full functioning Research Promotion cell has helped the institute become one of 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.

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:

Undergraduate Programmes

Bachelor of Technology (B.Tech) Admission through: AIEEE

Duration: 4 Years

Stream: Mechanical, Electrical, Civil, Computer Science and Engineering,

Electronics and Communication, Electronics and Instrumentation.

Industrial Training: 3 months. Final Year Project: 1 Year

Graduate Programmes

Master of Technology (M.Tech)

Admission through: GATE + Interview

Duration: 2 Years

Stream: .

Assistantship: Affiliated to course instructors or research projects.

M.Tech Project: 1 Year Master of Science (M.Sc) Admission through: JAM

Duration: 2 Years

Stream:

M.Sc Project: 1 Year

Masters of Business Administration (MBA)

Admission through: CAT+Interview

Duration: 2 years

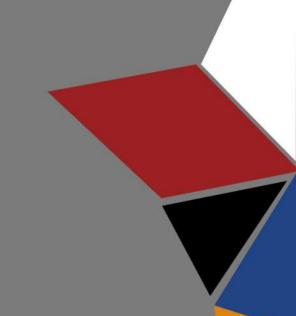
Focus:

MBA Project:

Note: The institute follows a 10-point grading system.

NITS - NURTURING INNOVATION SINCE 1967





• A legacy of more than 46 years:

Right from its inception National Institute of Technology - Silchar (then Regional Engineering College-Silchar) in 1967, has played pivotal role in delivering to the technocratic demands of the world. The alumni of the institute have proved 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 AIEEE, about top 1.5% make it to the most sought after and highly respected institutions like NITs. Out of which NIT-Silchar itself offers seat to only 0.04% of the total aspirants.

· Highly Qualified Faculty:-

The faculty, besides doing world class research, ensure that the students of the campus are ready to face the challenges 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 fund of ₹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 contemporaries in various domains.





• The Accolades:-

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

• 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 substantially to the industry. Intensity & rigour of the Practice School Programme makes our students employment ready to take on work life challenges.

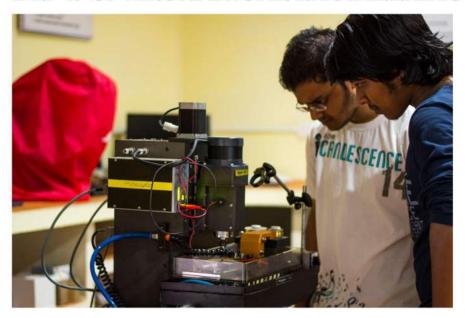
• Industrial Audit Courses:

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 knowledge.

Connected Location, Vivacious Spirits:-

The campus is home to students from 28 Indian States and 15 countries. The vibrant socio-cultural system moulds our students into easily conformable species, ever-ready to adjust everywhere. Using the power of Technology the ever motivated students of NIT-Silchar make themselves true professionals, ready to take on work life challenges.

DEPT. OF MECHANICAL ENGINEERING



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 discipline.

CORE

- Thermodynamics 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 · Automobile Engineering

ELECTIVE

- Compressor and Gas Turbine
 Mechanical Vibrations Tool Design IC Engine
- Production and Management Energy Engineering and Management Gas Dynamics
- MEMS and Nanotechnology Hydraulic Machines Finite Element Method In Engineering
- Robotics and Robot Applications Solar Architecture Air Conditioning · Supply Chain Management

LABS

- Thermal • Thermodynamics Lab Heat Transfer Lab IC Engine Lab Refrigeration and Air Conditioning Lab
 - Automobile Lab • Engine Research Lab • Turbo Machinery Laboratory · Fluid Mechanics Lab
 - Renewable Energy Lab Gas Dynamics Lab Non conventional Energy Lab Energy Research Lab
- Design • Engineering Mechanics Lab Machine Dynamics Lab Instrumentation Lab Solid Mechanics Lab
 - Computational /CAD Lab (ANSYS,ProE,AVL FIRE,MATLAB)
- Production -• CNC Laboratory • Advanced Manufacturing Engineering Lab • Material Testing Lab • Metrology Lab
 - Condition Based Monitoring Lab
 Micro-Nano Manufacturing Lab



DEPT. of CIVIL ENGINEERING



PROFILE

The department of Civil Engineering was set up in 1977 and ever since, it has 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 laboratory facilities and an exemplary ambience for research and development.

CORE

- Strength of Materials • Building Materials and Construction • Surveying • Fluid Mechanics
- Engineering Geology Transportation Engg-1
 Structural Analysis
 Transportation Engg.
- Estimation and Evaluation Environmental Engg-1 Geotechnical Engg. Structural Analysis -II
- · Structural Design -I Functional Planning of Buildings
- Structural Design-II
- · Structural Design-III · Hydraulic Engg. Foundation Engg. Structural Analysis-III
- 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.

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



DEPT. OF COMPUTER SCIENCE & ENGINEERING



PROFILE

To provide students with strong conceptual 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, implementation, and analysis of computational systems and skilled in technical communication, will contribute towards the advancement of computing science and technology.

CORE

• Computer Programming, Data Structure, Applied Graph Theory, Principles of Programming Languages Computer Graphics, Microprocessor and Peripherals, Operating Systems, Numerical Analysis and Algorithms Compiler Design, Design and Analysis of Algorithms, Database Management Systems, Distributed Computing Computer Network and Communication, Software Engineering, VLSI Design and CAD, Computer Organization



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 and Machine Intelligence

LABS 1

General Purpose Computer Centre, Database Management Laboratory, Operating System Laboratory Data Structure Laboratory, UNIX Laboratory, SUN workstations, DEC alpha workstations IBM RS/6000

DEPT. of ELECTRONICS AND COMMUNICATION



PROFILE

The Department of Electronics and Communication Engineering offers a 4 year B.Tech Degree,2- year M.Tech degree in 'Microelelectronics and VLSI design' and Ph.D in various areas of the discipline. The faculties of the department have wide variety of expertise with strong academic background 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-placement interviews are organised for the students to give them real time exposure to the placement drives.

CORE

- Basic Electronics
 Signals, systems and Networks
 Analog Electronic 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 fibreoptics

ELECTIVE

- Advanced Microprocessors
- Optical Communication Networks
 Digital Image Processing
- Information Theory, Coding and Cryptography CAD for VLSI
- Satellite CommunicationBiomedical Instrumentation
- · Embedded Systems
- Advanced VLSI Design

- Antenna & Wave propagation
- edded Systems
 - •Smart Antennas for Wireless Communication

- Analog IC Design
 VLSI
 - VLSI-DSP based Designing
- Mobile and Cellular Communication
- Digital Speech Processing
 Low Power VLSI Design
 Networks
 RF and Microwave Integrated Circuits
- · Telecommunication Switching and

LABS

- LEC DEC Microprocessors VLSI Communication Control DSP
- · Advanced Communication

DEPT. OF ELECTRICAL ENGINEERING



PROFILE

In order to keep pace with ever changing industry requirements, the course for electrical engineering has been designed to meet 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 Drives, Electrical Machines, Industrial Electronics, Electromagnetic Fields, Principles of Communication, Switchgear and Protection, Industrial Instrumentation, Linear and Digital Electronics, Electrical Engineering Materials, Signal Processing & applications, Measurement and Measuring Instruments, Microprocessor and Microcontroller systems and their applications, Renewable Energy Source and Management, Programming and data structure, Computer Architecture and Organization, Computer Applications in Electrical Engineering

ELECTIVE

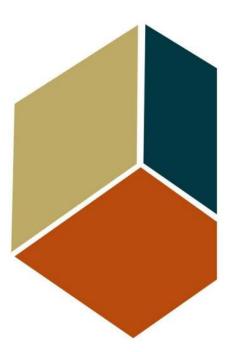
High Voltage Engineering, Higher Control Systems VLSI Design, Intelligent and Knowledge Based System, Modeling and simulation, Distribution System Planning and Automation, Advanced Electrical Machines Hydro Electric Engineering, Industrial Management, EHV,AC and DC Transmission, Fault Detection and Diagnostics Computer Application in Power System, Control System Components and Signal Design, Electrodynamics and Advanced Field Theory, Electric Power Utilisation and Traction Advanced Power Electronics, Advanced Instrumentation, Flexible AC Transmission, Biomedical Engineering Soft Computing Techniques and Applications, Real Embedded systems

LABS

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

DEPT. OF ELECTRONICS AND INSTRUMENTATION ENGINEERING





PROFILE

Instrumentation Engineering is a multi-disciplanary stream and encompasses courses of mechan 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.

CORE

- Electrical and Electronic Instruments
 Electronic Circuits
 Transducer Engineering
 Process Engg-I
- Computer Networks Linear and Digital Electronics
 - · Industrial Instrumentation -I
- · Digital Electronics and Logic Design · Communication Engineering

- · Control Systems Digital Signal Processing
- Data Structure
- · Process Engineering-II
- Microprocessors and Microcontrollers Industrial Instrumentation-II Computer Controlled Processes
- · Power Electronics

- IC and VLSI Design
- Real Time and Embedded Systems
- · Virtual Instrumentations

ELECTIVE

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

LABS

• Instrumentation Laboratory • Process Control Instrumentation Laboratory • VLSI Laboratory

DEPT. OF MANAGEMENT STUDIES



PROFILE

The department of Management studies offers a 2 year M.B.A programme which is designed to cater the need of the corporate sector. It will bridge the gap between the academia and business world.



CORE

Managerial Economics
Business Communication
Strategy Management
Business Research Method
Organizational Behavior
Computer Application in Management
Management Information System

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	





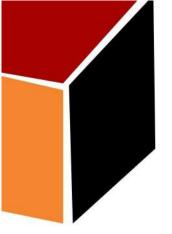






DEPTT. OF MATHEMATICS





CAMPUS LIFE











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



INDUSTRY-INSTITUTE RELATIONSHIP



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 the 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.



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: NIT Silchar has collaborated with National Instruments to integrate all the technologies for problem solving, accelerated productivity, and continual innovation. As a part of this collaboration 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

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

RANKINGS

DATAQUEST

Rank 2012	Rank 2011	Change	Institutes	City	Score	HR Perception	Total Score
25	50	25	Thiagarajar college of Engineering	Madurai	27.25	4.32	31.57
26	13	-13	Amity School of Engineering & Technology	Noida	30.07	1.45	31.52
27	34	7	Sir M Visvesvaraya Institute of Technology	Bengaluru	29.76	1.56	31.32
28	62	34	SJB Institute of Technology	Bengaluru	26.80	4.3	31.10
29	47	18	Bannari Amman Institute of Technology	Erode	27.68	3.23	30.91
30	37	7	BS Adur Rahman University	Chennai	28.53	2.36	30.89
31			National Institute of Science & Technology	Berhampur	27.41	3.23	30.64
32	57	25	Trident Academy of Technology	Bhubaneswar	26.88	3.32	30.20
33	31		National Institute of Technology, Silichar	Silchar	26.21	3.96	30.17
34	38	4	Rungta College of Engineering & Technology	Bhilai (Chhattisgarh)	30.13		30.13
35	68	33	Government College of Engineering, Amravati	Amravati	23.90	5.99	29.89
36	49	13	Ganeshi Lal Bajaj Institute of Technology & Management	Gautambudh Nagar	29.78		29.78
37			National Institute of Technology, Hamirpur (HP)	Hamirpur	26.40	3	29.40
38			PEC University of Technology	Chandigarh	28.94		28.94
39			Laksmi Narain College of Technology, Bhopal	Bhopal	27.61		27.61
40	53	13	Panimalar Engineering College	Chennai	25.89	1.66	27.55
41	80	39	Vernana Institute of Technology	Bengaluru	21.78	5.63	27.41

CAREERS 360 A Career is a Life

ASSAM			
Institute	LOCATION	State	National
IITS/NITS/IIITS			
IIT-Guwahati	Guwahati	AAA	AAA
NIT-Silchar	Silchar	AA+	AA
Other Deemed Universities/Central Universities			
Tezpur University	Tezpur	AA+	A
State Universities/Affiliated Colleges			
Assam University	Silchar	AA+	A



move with the information

38



NIT, Silchar National Institute of Technology, Silchar

39



DAIICT, Gandhinagar Dhirubhai Ambani Institute of Information and Communication Technology Gandhinagar

40



VIT Vellore VIT University Vellore

41



IIIT, Gwalior Indian Institute of Information Technology, Gwalion

42



BESU, Shibpur Bengal Engineering and Science University, Shibpur

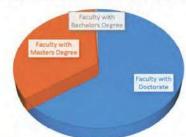
43



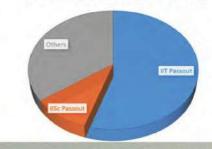
VJTI, Mumbai Veermata Jijabai Technological Institute (VJTI), Mumbai

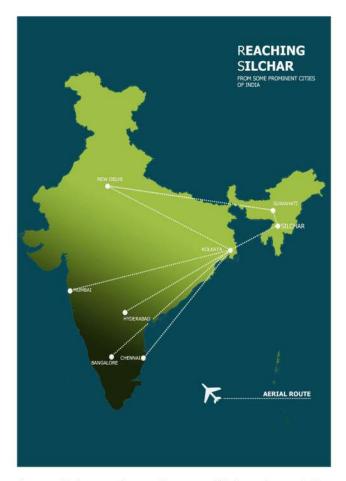
FACULTY STATISTICS

FACULTY STATISTICS (QUALIFICATION)



FACULTY STATISTICS (EDUCATION)





Located in southern Assam, Silchar is aerially connected to all the major cities of India.





VISITING NORTH EAST INDIA

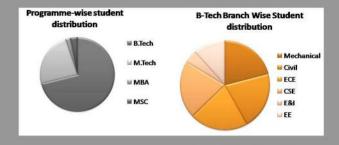
The alluring land of North-east India is one of the most treasured eco-friendly site of the world

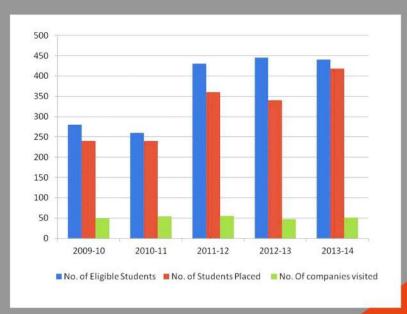




TRAINING & PLACEMENT CELL

The T&P Cell not only acts as a facilitator for training and placement but also works towards 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...





ACILITIES

- State of the art guest house with A/C rooms. Auditorium for pre-placement talks and seminars. Fully furnished group discussion and interview rooms.
- nternet connected computer lab devoted to training and placement

PLACEMENT PROCEDURE



Interested companies contact NIT Silchar Training and Placement Cell through e-mail, tnp.nits@gmail.com





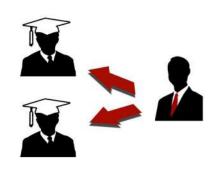
Training and Placement Cell will send a Job Notification Form (JNF) alongwith formal invitation and relevant information by e-mail.



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.



OUR ESTEEMED RECRUITERS:

















































































CATERPILLAR® ALSTOM ORACLE



































































Dr. N. V. Dev Choudhury FIC, T&P Cell, NIT Silchar Ph: +91-9435073310

Placement Cordinators: Debjyoti Sutradhar +9!-7896442788

Abhishek Raj +91-8876805115 E-mail: tnp.nits@gmail.com

Phone no. - +91-3842-2242074

Address: Training and Placement Cell,

NIT Silchar, Cachar, Assam,

Pin: 788010