

NIT SILCHAR
ESTD : 1967

Recruitment Guide



National Institute of Technology

Silchar



VISION

To establish unique identity by development of high quality human and knowledge resources in diverse areas of technologies to meet local, national and global economies

MISSION

To create an ambience in which new ideas and creativity flourish in abundance and stay in tune with the expanding frontiers of knowledge worldwide.



Message From The Director

Since its inception NIT Silchar has had a vision to provide quality technical education and to act as a centre for scientific research. Today NIT Silchar is considered as national brand and in acquiring this position, a major contribution has come from our students and alumni. Our programmes are designed to instill leadership, teamwork and global focus among the participants. The institute has been rated as the third best in terms of placement and eighth in terms of overall performance. The undergraduate and post graduate programmes are continuously monitored and regularly revised to include latest trend-setting technological theories and practices.

I cordially invite organisations and corporations to come and test the skills of the young pool of talents and develop a long lasting bond with our institute.

Dr. N.V. Deshpande
Director

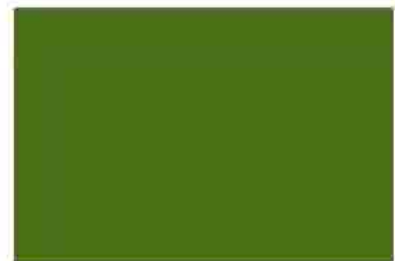
*Message From The Faculty In Charge
(Training & Placement)*



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 50 companies in 2011-2012 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.

We earnestly invite you to be a part of NIT Silchar community and contribute your share by way of taking active part in building industry-institute interface which can only help maintain our competitive edge.

DR. GURUDAS DAS
FIC (TRAINING AND PLACEMENT)



THE INSTITUTE



NITS stands as a humble spectacle where tradition meets vogue, aspiration meets inspiration and where regional excellence defines global benchmarks.

NIT Silchar was established in 1967 as REC (Regional Engineering College). In the year 2002 it was transformed into an NIT and bestowed with the status of deemed university. Subsequently in 2007 it was upgraded to "An Institute of National Importance".

NIT Silchar is recognized nationwide as one of the leaders in the fields of engineering and research.



These developments over the years speak volumes about the quality of education imparted in the institute. This is well reflected in the faith the companies have reposed on the students as they keep on visiting the institute for recruitment.

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.

Students are selected through AIEEE for B.Tech programme and GATE for M.Tech. programme. Less than 2% of the total appeared make it to NITS.

The Alumni of NIT Silchar has always kept its flag flying high by being part of the best industries in the world and by holding top leadership positions in FORTUNE 500 companies.



Department of **CIVIL** Engineering

Curriculum

Core	Elective
Surveying	Bridge Engineering
Engineering Geology	Foundation Engineering
Structural Analysis	Water Resources Development
Hydraulic Engineering	Advanced Highway Engineering
Environmental Engineering	Advanced Structural Engineering
Structural Design	Advanced Construction Technology
Geotechnical Engineering	Advanced Environmental Engineering
Transportation Engineering	Matrix Method of Structural Analysis
Foundation Engineering	Ground Improvement and Rock Mechanics
Estimation & Valuation	Photogrammetry and Photo Interpretation
Hydrology & Flood Control	Concrete Technology & Advanced Materials
Irrigation Engineering	
Planning, Design & Detailing	
Computer Application in Civil Engineering	
Building Construction: Principle And Practice	
System Analysis, Project Planning And Construction Management	

Profile

The Department of Civil Engineering offers a 4 year B.Tech programme, a 2 year M.Tech programme in Water Resources Engineering, Earthquake engineering and Fluid Flow & Water Power Engineering besides doctoral programme in various areas of Civil Engineering.

Labs

Material Testing Lab
Structural Engineering Lab
Fluid Mechanics Lab
Highway Engineering Lab
Transportation Engineering Lab
Concrete Engineering Lab
Hydraulics Lab





Department of **COMPUTER SCIENCE &** Engineering

Curriculum

Core	Elective
Computer Programming	Parallel Algorithms
Data Structure	Advanced Database Management System
Applied Graph Theory	Modelling and Simulation
Principles of Programming Languages	Computer Systems Performance Evaluation
Computer Graphics	Information System and Management
Microprocessors and Peripherals	Computer Graphics and Applications
Operating Systems	Object Oriented Programming
Numerical Analysis and Algorithms	Fuzzy Logic and Neural Networks
Design and Analysis of Algorithms	System Analysis and Design
Compiler Design	Artificial Intelligence
Database Management System	Image Processing and Pattern Recognition
Computer Network & Communication	Pattern Recognition and Machine Intelligence
Software Engineering	
Distributed Computing	
VLSI System Design and CAD	
Computer Organization and Architecture	
Automata Theory and Theoretical Computer Science	

Profile

The Department of Computer Science and Engineering offers a 4 year B.Tech course in Computer Science and Engineering. The overall course is designed to move steadily from theory to application.

Labs

General purpose computer centre
 Database Management Laboratory
 Operating System Laboratory
 Data Structure Laboratory
 UNIX Laboratory
 IBM RS/6000
 Silicon graphics server and workstations
 SUN workstations
 Compaq Proliant Workstations
 DEC alpha workstations





Department of ELECTRICAL Engineering

CURRICULUM

Core	Elective
Power System	High Voltage Engineering
Control System	Higher Control System
Circuit Theory	Digital Computer Organisation
Electric Drives	Hydro Electric Engineering
Electrical Machines	Industrial Management
Industrial Electronics	EHV, AC and DC Transmission
Electromagnetic Fields	Fault Detection and Diagnostic
Principles of Communication	Computer Application in Power System
Switchgear and Protection	Control System Components & System Design
Industrial Instrumentation	Electrodynamics and Advanced Field Theory
Linear Electronic Circuits	Electric Power Utilisation and Traction
Digital Electronic Circuits	Advanced Power Electronics
Electrical Engineering Materials	Flexible A/C Transmission
Signal Processing and Applications	Computer Aided Power System
Measurement & Measuring Instruments	
Microprocessor Systems & Applications	
Renewable Energy Source & Management	
Computer Applications in Electrical Engineering	

Profile

In order to keep pace with the ever changing industry requirements the electrical engineering course has been designed to meet the demand of the competitive market. It includes courses in communication computer architecture signal processing thereby making it a much sought after branch of NIT aspirants. The high tech labs allow students to get the much needed practical exposure. The department also boasts of its high quality experienced faculty members. The Department offers a 4 year B.Tech Degree and 2 year M.tech Degree besides Ph.D in various areas of Electrical Engineering.

Labs

Electric machines lab.
 Control and instrumentation lab (In collaboartion with National Instruments)
 Basic electrical engginering lab.
 Measurement and instrumentation lab.
 Power electronics lab.
 Microprocessor lab.
 Drives lab.
 Energy lab
 Power system lab.
 Relay testing lab.
 Photo voltaic lab.
 Energy lab.
 Circuit and network theory lab.
 Computer lab.





Department of ELECTRONICS & COMMUNICATION Engineering

Curriculum

Profile
The Department of Electronics & Communication Engineering offers a 4 year B.Tech Degree in Electronics and Communication Engineering, 2 year M.Tech course in Microelectronics and VLSI Design besides Ph.D. in various areas of Electronics & Communication Engineering.



Core	Elective
Pulse and Digital Electronics	Radar Engineering
Analog Communication	Television Engineering
Solid State Devices	Modern Telephony
CAD for VLSI	Acoustic Engineering
Advanced Microprocessors	Information Theory and Coding
Digital Communication	Optical Communication
System Programming	Satellite Communication
Electromagnetic Field Theory	Introduction to Compiler Design
Instrumentation Engineering	Biomedical Instrumentation
Integrated Circuits and Systems	Computer Peripheral Devices
Digital Signal Processing	Image Processing
Antenna and Wave Propagation	Advanced Instrumentation
Computer Network and Communication	Modern Communication Theory and Systems
Applied and Industrial Electronics	Design Automation of Electronic Circuits
Microwave Engineering	Artificial Intelligence and Neural Networks
Semiconductor Physics and Materials	Principles of Optoelectronics & Fibre Optics
Electrical and Electronic Measurement	Power Electronics
Digital Computer Organisation and Architecture	

Labs

Electronics Circuits Lab
Communication Lab
Digital Signal Processing Lab
Microprocessor Lab
Optical Communication Lab
VLSI Design Lab



Department of **MECHANICAL** Engineering

Curriculum

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 programme in various areas of Mechanical Engineering.

Core	Elective
Thermodynamics	Refrigeration
Manufacturing Process	Automobile Engineering
Machine Drawing	Tool Design
Material Science	Air Conditioning
Theory of Machines	Compressor and Gas Turbine
Mechanical System Design	Machine Tools
Machine Design	Combustion Engineering
Heat Transfer	I.C. Engines
Turbo Machinery	Solar Architecture
Theory of Metal Cutting	Robotics
Engineering Inspection & Metrology	Reliability Engineering
Mechanical Dynamics and Vibration	Energy Engineering & Management
Power Plant Engineering	
Industrial Engineering and Management	
Computer Aided Design and Manufacturing	



Labs

CAD/CAM Lab
Dynamics Lab
Instrumentation Lab
Manufacturing Engineering Lab
Heat Transfer Lab
Automobile Lab
Material Science Lab
Metrology Lab
Air Conditioning Lab
Solar Energy Lab
Computational Lab



MASTER OF SCIENCE (APPLIED CHEMISTRY) DEGREE

Profile

Department of Chemistry offers a 2 year master degree in applied chemistry, which is specially designed to meet the needs of industries as well as the field of research.



LABS:

Organic Chemistry Lab
Inorganic Chemistry Lab
Physical Chemistry Lab
Environmental Chemistry Lab

CORE SUBJECTS:

Organic Chemistry
Inorganic Chemistry
Physical Chemistry
Synthetic Methods
Environment Chemistry
& Engineering Principles
Polymer Chemistry

ELECTIVE SUBJECTS

Physical Methods in Chemistry
Energy & Environment
Organometallic Chemistry
Organic Synthesis
Fuel Technology
Natural Product & Medicinal Chemistry
Green Chemistry & Technology
Solvent Free Chemical Transformations
Bio-Energy
Paper Technology & Chemistry
Forest Product & Application
Computer Programming in Chemistry
Petroleum Science & Technology
Tea Chemistry & Technology
Catalysis & Surface Chemistry

INFRASTRUCTURE

CAMPUS

The campus of NIT Silchar is spread over an opulent 600 acres of pristine greenery.



"The campus of NIT Silchar is like a golf course"

-Dr. P K Banik, Director General, P. D P. University

LIBRARY

The library is a complete resource equipped centre with 1,30,000 books, periodicals, journals and also 4000 online journals from all over the world. It uses LIBSYS an integrated library management package to cover all functions of library. Moreover there are 5 departmental libraries to add to the existing capacity.



LABORATORY

All branches have their specific purpose labs and along with them labs for softwares such as autocad, labview, etc., are there to provide exposure to students. There are latest equipments and sophisticated machinery for testing. There is a central mechanical workshop dealing with all aspects such as welding, carpentry, etc.

'I spent a fortune to book a holiday resort ,I could have come here(NIT Silchar)'

-A Recruiter.



ACCOMMODATION

There are 8 boys' hostel and 2 girls' hostel, accommodating about 2000 plus students. They are provided with internet connectivity and sporting infrastructure

INFRASTRUCTURE & ENTERTAINMENT FACILITIES

There are quarters for faculties and a guest house specially for visiting dignitaries and recruiters



SPORTS & EXTRA-CURRICULAR

There is a sports complex with latest sporting equipments. In addition there is a student activity centre (SAC) for various extracurricular activities. Auditoriums are there for minor events.

WINNER OF BEST CAMPUS 2007 AMONG ALL NITS



The Training & Placement Cell

The T&P cell not only acts as a facilitator for training and placement but also works towards overall development of students. The T&P cell is student-driven which consists of students from each discipline who work as a team under the guidance of its TPO. It primarily works as a liaison between the industry and the institute. The companies visiting the campus have spoken highly about the hospitality and assistance offered by the team.



The decisions related to placement policies and other related activities are taken by the faculty in charge training and placement in consultation with the student coordinators from all the disciplines

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 specially devoted to training and placement.
- ✓ Rooms for written test with capacity upto 200.
- ✓ Student coordinators for any kind of assistance during the visit.

Beyond Academics

INCANDESCENCE

It is the cultural festival of NIT Silchar. It is the time of the year when the whole campus turns into a mood of celebration. The main motto of Incand is to bring out the creativity and talent of its participants. The organizers of the fest get the real taste of man-management skills. The main attraction is the grand finale night which features noted bollywood performers like Kunal Ganjawala, Bombay Vikings, Lucky Ali, Zubeen Garg and the who's who of the glamour world.



TECHNOESIS

It is the annual technical fest of NIT Silchar. Its time to come out of class rooms and give your technical prowess a test as technoesis brings a platform for the engineers in the making to get a real life sense of all the laws and hypotheses that they have been learning. It also features guest lecturers where students get a chance to meet people they aspire to be. It has hosted the hacking czar Ankit Fadia in the past.



THUNDER MARCH

North East India and no rock fest- its not possible ...thus we have here Thundermarch for the metal freaks....Thundermarch has been proud host to a number of prominent rock bands like Demonic Resurrection, Undying Inc., Lou Majao to name a few.



BIZARCADE

It a bizz fest undertaken in order to develop and nurture an industry - institute interface. To bring out the talent of the budding entrepreneur, dignitaries from various industries are invited to interact with students through lectures and seminars thus giving a first-hand experience about corporate affairs and business environment.

SANGHARSH

The students union body organizes annual sports meet amongst hostels and the hostel with highest points is declared best hostel.



ACADEMICS AND RESEARCH

The departments of the institute are entrusted with the duty of carrying out the academic activities which include teaching, research and consultancy. The courses of study are organized on semester pattern and each semester provides minimum number of specified contact days, conferences, workshops, seminars in the institute.

Departmental electives:

To increase the students interest in other faculties of technology the students take up elective courses from their departments in addition to their core area of specialization. Students also take course in humanities and management science to broaden their spectrum of knowlegde.

Summer internship:

Pre final year students have to compulsorily undergo summer internship in various leading organizations from mid May to mid July. Such industrial exposure equip students to tackle live problems encountered by the industries. These internships are provided by the training and placement cell.

Research and development:

Research is nurtured through various academic programmes run by the departments and also through sponsored programs funded by industry and various organizations.

Academic research program:

This include research work undertaken by individual faculty or specific research group in each department leading to Ph.d degree. Research is carried out by scholars admitted to the programmes of study under the guidance of the faculty in each departments.

Sponsored research:

Funded research programs are undertaken by the faculty . The project details are forwarded to various groups based on the nature of research . Industrial consultancy provides for faculty of the institute to undertake specific assignments for industry which include project design ,testing and evaluation . This is facillitated through the office of the Dean (Sponsored Research and Consultancy).

Student project:

All the students of M.Tech , final year B.Tech , Ph.D stuidents have to compulsorily undertake projects under the guidance of the faculty . Many of these projects have made their way to publication in international journals,and even in some cases pateneted.

OUR DISTINGUISHED ALUMNI

Nihar Mohanty
Adjunct Professor
MIT, USA

Adarsh Katyal
President and CEO
Varite Inc., USA

Subbaraman Iyer
COO
Idea Cellular

Prasanta Kumar Das
Country Head
HP India

Manoj Kumar Hota
Vice President
(Global Financial Services)
Capgemini
Germany

Nitin S Jog
MD
Prathamesh Constructions

V. Sobhanapalli
MD and CEO
Radinnova Inc., USA

Joydeep Shome
Director
National Informatics Centre (NIC)
New Delhi

Nitish Kumar
Vice President
Royal Bank of Scotland, London

S Raman Menon
Director
K G M Constructions, Dubai

Dr. S Srinavsan
Atomic Energy of Canada Ltd

Arun Souza Verma
Vice President
Allied Blenders and Distilleries

Rajesh Gautam
CEO
Technicon Software Solutions,U.S.A

Rajit Kumar
Founder and MD
Design Structomech
Gurgaon

Manoj Sharma
CEO
Mm9 I. T Pvt Ltd
Gurgaon

Anjan Chakraborty
WORLD BANK

OUR ESTEEMED RECRUITERS

A

ABB
ABM GROUP
ACCENTURE
ALSTOM
AMW
AREVA
ARICENT
ARIVANA NETWORKS
ASHOK LEYLAND
ATKINS GLOBAL
AVTEC

B

BAJAJ
BCH ELECTRIC
BHARAT ELECTRONICS
BHARAT PETROLEUM
B.H.E.L.
BOC

C

CAPGEMINI
CATERPILLAR
COAL INDIA LIMITED
CROMPTON GREAVES
C.S.C
CUMMINS

D

DEEM ROLL TECH.
D-LINK
D.R.D.O

E

EICHER
E.I.L.
ENERGY INFRA TECH.
ERICSSON

F

FLAKTWOODS
FOSROC

G

GAIL
GAMMON
GODREJ
GOOGLE
GRAIL RESEARCH

H

H.C.L.
H.D.F.C

HINDUSTAN CONSTRUCTION COMPANY
HINDSUTAN NATIONAL GLASS
HINDUSTAN PETROLEUM
HLS ASIA LIMITED
HONEYWELL
HP
HUAWEI
HYUNDAI

I

IBM
ICICI BANK
I-FLEX SOLUTIONS
INDIAN AIRFORCE
INDIAN ARMY
INDIAN NAVY
INDIAN OIL
INDIGO ARCHITECTS
INGERSOLL RAND
INTERRA.IT
ITDC
ITD CEMENTATION

J

JCB
JOHN DEERE

K

K.E.C INTERNATIONAL

L

LAFARGE
L & T ECC
L&T HM
LNJ BHILWARA

M

MAHINDRA & MAHINDRA
MARUTI SUZUKI
MECON
MICROSOFT
MURUGAPPA GROUP
MU-SIGMA

N

NAGARIJUNA CONST. COMPANY
NBCC
N.R.L.
N.T.P.C

O

OIL INDIA LTD.
OIL TANKING
O.N.G.C

P

PATNI
PIDILITE INDUSTRIES.
POWER GRID
PRADAN
PUNJ LYOD

R

RELIANCE ENERGY
RELIANCE POWER
RITES
R.P.G

S

SAMSUNG
SANKALP SEMICONDUCTORS
SAPIENT
SASKEN
SHAPOORJI PALLONJI
SOMA
SONY INDIA
STERLITE
SUBROS
SYNTEL

T

TATA AUTO COMP.
TATA MOTORS
TATA POWER
TATA TELESERVICES.
T.C.E
T.C.S
TECH MAHINDRA
TELCON
TVS MOTORS

U

UNITECH

V

VEDANTA
VIDEOCON

W

WIPRO

Z

ZTE TELECOM

Placement Procedure

1. Interested companies may contact Training and Placement Cell through e-mail at tnp@nits.ac.in or tnp.nits@gmail.com.
2. The Training and Placement Cell will send a job notification form (JNF) along with formal invitation to companies and relevant information via e-mail.
3. The Company needs to fill up the JNF and send it back by the deadline so that the opportunities offered to the students can be communicated.
4. Placement office allots slots based on information provided in JNF and based on availability.
5. After the allotment of date, company visits the campus and conducts the various stages of placement.
6. After the completion of selection procedure the company is required to announce the final list of selected students on the day itself.

REACH US: Dr. Gurudas Das
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