North Eastern Regional Institute Of Science And Technology

(DEEMED UNIVERSITY, UNDER SECTION 3 OF THE UGC ACT,1956)
UNDER MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVT. OF INDIA, NEW DELHI
NIRJULI- 791109, ARUNACHAL PRADESH

PLACEMENT BROCHURE

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Message from T&P Desk

At the outset, let me extend my warm greetings and an invitation to you, to visit our Institute, perched in pristine surroundings of Arunachal Pradesh.

North Eastern Regional Institute of Science and Technology (NERIST) established in the year 1986 obtained Deemed University status in 2005. Functioning under the aegis of the MHRD, Govt. of India, it is one of the few premier institutions in the country, to cater to the specific HR Development needs of the North Eastern Region of the country. NERIST, a pioneer in unique modular pattern of professional education in the country, is presently offering UG and PG programmes in technology (B. Tech./M.Tech./PhD) in the areas of Agriculture Engineering, Civil Engineering, Computer Science, Electrical Engineering, Electronics & Communication Engineering and Mechanical Engineering. It also offers UG and PG programmes (B.Sc. /M. Sc./PhD) in Forestry and PG programmes (M. Sc./PhD) in
Physics, Chemistry and Mathematics.The Institute has M.B.A. programme and PhD programmes in Humanities, ASocial Sciences and Management Science.

Our students have done well in competitive examinations such as GATE, CAT, XMAT, GRE and GMAT at the national/international level and are pursuing higher studies in premier institutions including IITs, IIMs and in reputed international universities like LSE and MIT.
This institute has 90% students' intake from the eight states of the North Eastern (NE) region of the country, catering to the man power requirement of the NE states at various levels.

It is a privilege for us to invite you for holding in-campus interviews at NERIST for extending employment opportunities to graduate and post-graduate engineers, graduate and post-graduate students from the area of applied and management sciences in your organization.

I am sure that our graduates and post graduates would live up to your expectations and through them you would have a strong tie-up with the NE states and contribute its growth – a need spelt out as priority by the union Government.

The Institute, with its Deemed University status, imparts quality education to the students and has become an acclaimed centre of excellence in Engineering, Applied and Social Science and Management in the country.

Over the years, it has been producing qualified graduates, post graduates who are contributing not only in the development of the region but also of other parts of the country and across the globe. I thank the faculty, alumni and students of NERIST for their continuous support and relentless hard work and perseverance to this end.

Dr. Arnab Bandyopadhyay

ABOUT US

North Eastern Regional Institute of Science and Technology (NERIST) is one of the leading Institutes of Science and Technology in the state of Arunachal that has been producing a plethora of proficient manpower not just to the north-eastern region, but to the country as well. Renowned for quality education it imparts, the Institute provides opportunities to sea of students by helping them acquire a University certification, gainful employment and career progression. This science and technology oriented educational Institute features unconventional and innovative academic programmes, augmented by ample and updated facilities.

NERIST, with its Deemed University status, emphasizes on the integration of both empirical and theoretical aspects of learning, aspires to produce skilled manpower with outstanding communication, technological and managerial skills. Enhanced with cutting-edge academic facilities, and tutored by highly qualified lecturers among whom are industry practitioners, NERIST strives to ensure high quality education in areas of Engineering, Science, Forestry, Humanities, Social Sciences, Management Science. Guided by the University's pragmatic UG & PG Programmes, NERIST is striving to ensure that each student is thoroughly equipped and empowered to meet future challenges.

The education that NERIST provides is pragmatically balanced; students find their minds braced, their practical skills honed and their social interaction abilities enhanced. They are well imbued with high moral and intellectual values to help actualize the growing demands of the economy. Moreover, the concepts taught in the classrooms are informed by a remarkable roster of world-class researches on various emerging areas in science and technology. Every year, this powerful combination of discovery, opportunity and community, results in graduation of NERISTs' students who are well equipped with the competencies and confidence to apply their talents and passion for business on prospective companies' behalf.

ABOUT OUR ALUMNI

The edifice of NERIST stands on strong foundations of exemplary faculty, global alumni and talented students. Each individual associated with NERIST has contributed to its academic spirit, cultural diversity and the reputation of professional.

Some of the well placed NERIST alumni spread across various batches and across the globe are at the following roles and companies :

- Managing Director, **Goldman Sachs**,
- Chief, Business Performance Enhancement(Operations)-India at **TATA Steel India Ltd**.
- **HCL Technologies** Vice President,
- **Citigroup** Principal and Founder/Co Founder,
- **Zaloni** President & CEO,
- **IndePay Networks** Technical Director,
- **NIC** Director
- **PayPal** Managing Director -Delivery Enablement and Client Delivery,
- **Accenture** Director - Global Sales and Marketing.

Our alumni presence include **HCL, Philips, Indian Oil, ONGC, Oracle, Infosys, Cognizant, TCS, Wipro, Cisco, Airtel, Ericsson, Siemens, Deloitte, Reliance, GMR Group, Hewlett Packard, BHEL, Bank Of America, NIC, Indian Railways, Indian Army, Indian Navy, Indian Air Force, Dept of Forests.**

Important roles represented by the alumni also include '**Principal IT advisor to Chief Minister**', Lecturers/Professors in leading Universities in I ndia and abroad.

WHY
RECRUIT @

Why should one hire from NERIST? We are located in one of the remotest corners of the country, we suffer from infrastructural handicaps and communication bottlenecks. But we have turned these formidable challenges to favorable opportunities and have excelled against all odds.

- Unlike any other institution in the country, we offer three levels of entry into the engineering programme. The first point of entry, through which 67% of our students come in, is after the X standard – a huge opportunity to reorient the focus of a young mind towards the wonderful and creative world of engineering. The outcome is a determined engineer who has been shaped to deliver the results in a dedicated and time bound manner. It won't be wrong to say, if a student can't get admission to NERIST after Class X, then only s/he studies further and looks for other engineering colleges in the region after Class XII.

- Engineering is not only about machines and tools but it is much more than that. The NERIST graduates complete their degree in six years against the standard four of the other institutes. The Modular pattern helps the students in striking a healthy balance between their academics and life skills. We make engineers who are culturally most adaptable and full of zest for life while overcoming challenges with élan.

- Apart from engineering, communication skills of our graduates are a forte. They speak what they think and they do what they speak.

- From CEOs to lead designers, from coders to managers, our students have excelled in their respective vocations across the world. The NERIST graduates dot the globe today and the result is a strong global alumni base showcasing their expertise ranging from engineering to management, and research to technopreneurial ventures. NERIST remains a familiar name in the commanding hallways of Google, Microsoft, NASA and Adobe to name a few. We are the pioneer in engineering education in North-East India and started our journey in 1983, when there were not a single other engineering institute in the region.

RESEARCH WORKS

Professor are profoundly tangled with leading research in various field and are author of numerous research papers published in national and international journals.

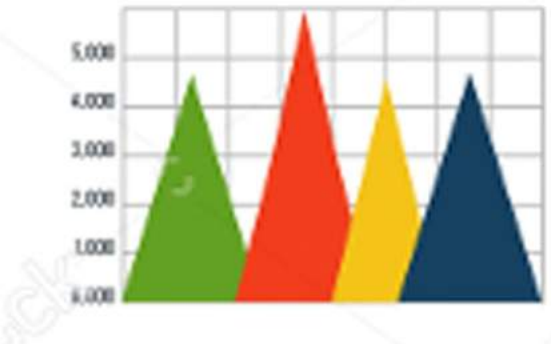
REASEARCH AREA'S

- Sustainable Machining
- Characterization of Composites
- Bio-medical Signal Processing
- Low Power VLSI Design
- Nano Composites
- Massive MIMO
- Analog and Mixed Signal Circuits and Systems Design
- Heat-transfer
- Semi conductor Memory design

and many more.

PROJECTS

o Establishment and Demonstration of 250 Litre Capacity Integrated Biodiesel Reactor System at NERIST.



DEPARTMENTS

To make the students experience a genuine crucible of learning, NERIST imbibes its academic programmes with principles of professional, scientific, technical and managerial advances that shape the lives of the students to help them create ways of their own today. NERIST is cognizant about the growing demands of the professional scenario and imparts education in the following Departments:

AGRICULTURE ENGINEERING

The Agricultural Engineering department provides technical knowledge to increase agricultural production and productivity through better management of land and water resources, appropriate use of more efficient agricultural machinery, better techniques of post harvest technology and improved methods of processing and preservation of foods. Courses offered are accordingly designed, keeping in view of the AICTE and ICAR norms. Students of this discipline get an exposure to industrial training of 30 days during pre-final year.

Students passing out from the department are employed in Government, Semi – Government Organizations, NGOs, Tea Estates, Banks, Irrigation Equipment Companies, Tractor and Farm Machinery Industry, Food Processing Industry and Teaching and Research Organizations.

FACILITIES AND LABORATORIES

Computational facility: A well-maintained computational facility is connected to Broad-band INTERNET through LAN. It is set up with the latest models of computers like Pentium-IV (8 Nos.), Pentium-III (13 Nos.), Workstation along with DeskJet and LaserJet printers. The students also get an exposure to various types of Application and design software's such as C, C++, Visual Basic, Mechanical Desktop, AutoCAD, MATLAB, SPSS, Curve expert etc.

Laboratory: Laboratory facilities exist for conducting practical classes in all professional subjects. The laboratories are well equipped with state-of-the-art equipments like Tilting flume channel, Water analyzer and Pressure plate apparatus, Fluidized bed dryer, Tray dryer, Spectrophotometer, Milk analyzer, Freeze dryer, cut section of tractors of different make, etc.

Departmental Library: A full-fledged departmental library takes care of the requirements of students, faculty and staff members. Presently the library has a good number of books, covering various areas of specializations of Agricultural Engineering, Manuals, Diploma & Degree project reports, Training reports, Magazines, New releases and other books & journals donated by the faculty members.

MECHANICAL ENGINEERING

This Dept. offers courses to train the students in the art of servicing, maintenance and trouble shooting aspects in Certificate level; imparts supervisory skills to the Diploma module students and provides analytical skills in various subjects related to Mechanical Engineering to the Degree module students. The Department has qualified and experienced as well as young motivated faculty members and supporting staffs to train the manpower according to the need of the hour.

FACILITIES AND LABORATORIES

The department presently features 17 Laboratories and 07 Workshops, well set up with equipments worth Rs.5.25 crore approx. Around 41 nos. of Pentium III and IV computers, Internet with E-mail facilities are available in all faculty chambers, workshops and laboratories.

It has a CAD lab, CIM and Robotics Lab under MODROB project; AutoCAD, CATIA, ANSYS, VB Net, Lingo/Lindo SURFER softwares, High quality printing facilities through laser jet, CD writer are important features of the computer lab. Efforts are on to procure Softwares like Pro-E WF2.0, H-Simulator, Mech Desktop to train the students in the recent trends in computational fields.

Laboratories of this Department are equipped with Mortise machine, Jig Saw machine, Wood turning lathe, Band saw, Circular saw machine, Wood planer, Sanding machine Bench grinder. Roll Bending Machine, Hydraulic Power Hacksaw Machine, Piller Type Drilling Bench Grinder, Transformer (Air cooled), Welding Transformer (Oil cooled), MIG-MAG M/c, Blow pipes, Pressure Regulators (Double stage/ single stage), Cutting torches, Necessary hand tools, Electric furnace, forging tools. Power Hack Saw machine, Shaping machine, Horizontal milling m/c, Radial Drilling m/c, Surface grinding m/c, Lathe machines (all geared), Lathe tool dynamometer, Pedestal Grinding m/c, Bench grinding m/c, Bevel Protractor, Power Hack Saw m/c, Lathe m/c, Shaping m/c, Drilling m/c, Pedestal Grinding m/c and other conventional equipments.

ELECTRONICS & COMM. ENGG

The department possesses well equipped seminar room to hold special academic activities such as Seminar, Expert Lecture Series, Workshops, Techno Quiz, and other activities which are organized by NERIST Electronics Society (NES) jointly with the department of ECE. The department has completed a number of MOD, R&D and thrust Area projects funded by the Ministry of HRD, DST and DOE of Govt. of India.

FACILITIES AND LABORATORIES

DSP & Embedded System Lab: The lab is equipped with Pentium IV computers with licensed Software for 45 embedded system kits of 8 bit, 16 bit & 32 bit microcontrollers as well as Power PC, DSP hybrid embedded system and Cold fire architecture. Other than these the lab has System View-ELANIX Software, FPGA Spartan-II as well as DSP boards, TMS-320C50 from Texas Instruments.

Audio and Video Lab: The lab is mainly meant for certificate and diploma courses. Here students undergo practical training for Radio Engineering, Audio and TV Engineering courses. It is equipped with various Radio, Audio & TV kits which allow detailed section wise study and testing of the different modules of various gadgets.

Computer-Networking Lab: This lab is mainly for PG course and UG & PG project works related to Networking and Computer Communication. It is equipped with sufficient number of Pentium-IV PCs with dual core processors and Software for network simulation like NS-2 and Glomosim. The department is also trying to procure Licensed OPNET software, I-Security & LAN Trainer Kits.

PC Maintenance Lab: Here Diploma module Students get exposure in assembling and maintenance of PC hardware as well trouble shooting. Also they are trained to install Computer Soft wares.

Radar and Antenna Lab: The lab is well equipped with Advance antenna units, Doppler Radar Set, X-band Microwave benches with all accessories, IE3D Software (MW Simulator), Spectrum Analyzer (20 GHz) Signal generators, and Different types of antennas.

Communication Lab: It is equipped with various communication (Analog & Digital) trainer kits, Signal generators, transmission line trainers, function generators, and other accessories.

VLSI Lab: Developed specially for PG & Research works in the area of VLSI design, Mixed Signal processing etc. for which proposals for SUNMICRO Workstations & Cadence Mixed Signal Software suite are being considered.

ELECTRICAL ENGINEERING

This Dept. offers courses following the modular pattern, structured to train the base module students in the art of finding faults, servicing and maintenance related to the field of Electrical engineering. It imparts enough supervisory & guiding skills to the Diploma module students. To the Degree module students, it provides sound knowledge for making them able to analyze, design and capable lead with innovative ideas in the subject suiting the current need of modern industries and public sectors. In addition it endeavors to excel M. Tech. and Ph. D. students by providing excellent infrastructural facilities.

FACILITIES AND LABORATORIES

The department has the following state-of-the-art well equipped laboratories:

Electrical Machines and Drives Lab
Power Systems Lab
High Voltage Lab
Control and Instrumentation Lab
Digital Electronics and Microprocessor Lab
Power Electronics Lab
Energy Systems Lab
Circuits & Measurement Lab
Electrical PC Lab
Project & Research Lab
Electrical Workshop
Electrical Maintenance Lab

CIVIL ENGINEERING

The Department of Civil Engineering is recognized as one of the major engineering departments in the North Eastern region of the country. The main objectives of the Department are to develop high quality technical manpower at Certificate, Diploma, Degree and Post Graduate levels and to cater to the needs of the North Eastern region in particular and the nation in general.

The Department of Civil Engineering follows at the UG level, a modular pattern of education adopted by the Institute. It also plans to expand its sphere of activities through new centers.

FACILITIES AND LABORATORIES

Computer Lab: 15 nos of Pentium D processor based machines, 20 nos. of Pentium-III based machines with Printers, Scanner and 6 KLVA UPS system with LAN Networking and Internet Connectivity.

Drawing and Drafting Section: Xerox machine, Edge Binding machine, Drafting machine, Ammonia Printing machine, Tracing Table, N.C. scriber CS 110, Lerroy Printing Set, Over head Projector, etc.

Engineering Geology Lab: Various Rock and mineral samples, tools and small equipments, Projector, etc.Environmental Engineering Lab: BOD incubator, UV-Vis Spectrophotometer, Visible Spectrophotometer, Digital PH meter, Autoclaves, Electrical conductivity meter, Exhaust gas analyzer, Water analysis Kit, , Chlorine comparator, Refrigerator, COD Reflux Condenser, Magnetic stirrer, Horizontal and vertical Rotary shaker, Hot Air Oven, Floc Test Apparatus etc.

Field Engineering Lab: Various plumbing and sanitary tools; pipes, wrench, vice, cutting and threading tools, water supply and sanitary fittings, low and high level flushing cisterns, traps and water closets and tolls for masonry works.

Geotechnical Engineering Lab: Triaxial Testing Machine for standard and large diameter samples, Consolidation Apparatus, Direct shear test, SPT equipment, Permeater, Proctor, and IS moulds and Rammer Ovens.

Highway Engineering Lab: Impact testing machine, Deval Attrition Testing machine, Los Angles' Abrasion Testing machine, Marshall Test Apparatus, Ductility Testing Apparatus, Film stripping Device, Bitumen Extractor, Standard Penetrometer, Ring and Ball apparatus.

COMPUTER SCIENCE ENGINEERING

The Computer Science and Engineering Department of NERIST offers a unique combination of courses and projects that helps the students to cope with the recent advancements in the computer Industry and Information technology. The department gives Diploma and Degree in computer science and engineering in modular pattern.

The Dept. offers regular courses like Computer Organization, Application Software, Operating System, Discrete Mathematics, Digital Electronics, Microprocessors, Database Management Systems, Compiler Design, Data Communications, Computer Networks, Design and Analysis of Algorithm to name a few of them. Apart from the regular courses a few of the important courses offered are Artificial Intelligence, VLSI Design, Image Processing, Fault Tolerant Computing, Information Theory, etc. The faculty members of the department are involved in various inter-disciplinary research projects funded by agencies like CISR, MHRD, NEC, DoE etc.

FACILITIES AND LABORATORIES

PC Lab: Practical classes of Diploma Module & Base Module are held here. The students get exposure to various types of Application Software such as Visual Basic, Dbase, LOTUS, Visual C++, etc in this lab. It's well equipped with Pentium III PC's (866MHz, 64MB RAM, 20GB HDD, CD ROM drive), Celeron PCs (300 Mhz, 32 MB RAM, 4.1 GB HDD), AMD-6 PCs (32 MB RAM, 4.1 GB HDD), Digital Cameras, Laserjet printers, Deskjet printers, Dotmatrix Printers, etc.

System Lab: Well equipped with servers and terminals basically for working in UNIX/LINUX and Windows environment as well. Hands on exposure to various programming Software such as C, C++, FORTRAN etc and RDBMS software like Oracle and SQL Server, Visual Studio.NET are available, several HCL Infinity Global Line Servers, HP Compaq PIV , Mac PC's, Laserjet printers, Deskjet 840 printer, Line matrix printer, Dotmatrix printers, AS/A4 Multipen Plotter 4100, Scanners etc.Also well equipped with two HCL Infinity Global Line Servers running on Red Hat Linux 4.0 Enterprise Edition, a SUN ULTRA SPARC 10S SERVER and several HP Thin clients for working purely in UNIX/LINUX environment. Practical classes for M.Tech and Degree students are held here.

R & D Cell: This Cell has been developed to carry out researches that are funded by external agencies, through student projects and for faculty research.

Network Lab: This lab is equipped with PCs which are connected to LAN T (LAN Trainer kits) consisting LANT – NIU, LAN-T PS and LANT Software. It also has ISECURIT - a network and data security training system. There are other labs like Embeded lab and Microprocessor and digital lab.

TRAINING & PLACEMENT

Since its inception in 1991, the Training and Placement (T&P) Cell of NERIST, has been bridging the gap between Industries and Academe. Guided by dedicated and efficient support team of administration, the T & P Cell works with potential employers from different sectors to understand their recruitment necessities, analyze them and generates opportunities for students in consonance with their knowledge and skills, both through campus and off-campus placements. Placement support is provided to all students for career

Our prior trainings have been conducted in reputed organizations like IOC, OIL Ashok Leyland, ONGC, Gammon India Ltd, HPC, NIC, DRDO, NESAC, Power Grid Corporation of India Ltd., NBCC, L&T, CPWD, CIAE, ICAR, Mother Diary, RFRI, NEIST, Stock Holding Corporation of India, NEDFI, HCL, NRFMTTI Hissar, CIAE Bhopal, ICR Research Complex for NEH Region Meghalaya, IWST Bangalore, WTI Guwahati and WWF, etc.

Some of the prominent organizations that conducted campus interviews in the Institute recently include KSK Energy Ventures Limited, Reliance Power Ltd., Gammon India Ltd, SONY, SYNTEL, HCL, SmarTek, WIPRO BPO, Mountain Fall India, Oil India, PRADAN, YES Bank, Jindal Steel and Power, Samsung Electronics, SRIJAN, Microsoft, Huawei Technologies, Indian Air Force, etc.

OUR PAST RECRUITERS

SONY

TATA

TATA ELXSI

इंडियनऑयल

IndianOil

WIPRO

Applying Thought

एन एच पी सी

NHPC

HUAWEI

APTEC

Godrej

Consumer Products Ltd.

ऑयल इंडिया लिमिटेड

Oil India Limited

पावरग्रिड

GAIL (India) Limited

Gas & Beyond

YES BANK

EXPERIENCE OUR EXPERTISE

Infosys

POWERED BY INTELLECT

DRIVEN BY VALUES

ASHOK LEYLAND

Punj Lloyd

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