POST GRADUATE
PLACEMENT BROCHURE

2024-25

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

NITT

Why us?

NIT Tiruchirappalli
NIRF Ranking
Awards

Learn to Think

Architecture
Chemical Engineering
Civil Engineering
Computer Applications
Computer Science and Engineering
Electrical and Electronics Engineering
Electronics and Communication Engineering
Energy and Environment Engineering
Instrumentation and Control Engineering
Mechanical Engineering
Metallurgical and Materials Engineering
Physics
Production Engineering
Management Studies

A place to call Home

Clubs
Student groups
R and R
Student's Life

Career with NITT

Training and Placement
Placement process
Placement Statistics

Glittering Alumni

K Mahalingam
Director
TS Mahalingam group

Shyam Srinivasan
MD & CEO
Federal Bank

N Chandrasekaran
Chairman
Tata Sons

PTR Palanivel Thiagarajan
Minister of
Information Technology
and Digital Services
TN Government

Krishnakumar Gopalan
CMD of Bharat
Petroleum Corporation
Limited

N Kamakodi
MD & CEO
City Union Bank Ltd

Srinivas K
MD & CEO
India1 Payments Ltd

Ravi Viswanathan
MD
TVS Supply Chain Solutions

TV Narendran
CEO & MD
Tata Steel

P Srikar Reddy
CEO & MD
Sonata Software

Raj Iyer
Head of Global Public Sector
Service Now

Anurag Behar
CEO
Azim Premji Foundation

Revathi Kant
Senior Vice President & CDO
Titan Company Limited

Anantha Radhakrishnan
CEO & MD
Infosys BPM Ltd

R. Chandrasekaran
Executive Vice Chairman (Retd)
Cognizant

Saumen Bhaumik
CEO
Titan Eyeplus

P Barathi, IAS
Chief Electoral Officer
Gujarat

1. Indian Institute of Technology Madras
2. Indian Institute of Technology Delhi
3. Indian Institute of Technology Bombay
4. Indian Institute of Technology Kanpur
5. Indian Institute of Technology Roorkee
6. Indian Institute of Technology Kharagpur
7. Indian Institute of Technology Guwahati
8. Indian Institute of Technology Hyderabad
9. **National Institute of Technology Tiruchirappalli**
10. Jadavpur University

1st among all NITs

9th among all engineering colleges
4th among all architecture colleges

National Institutional Ranking Framework 2023, Ministry of Education

- Best Innovation Club
  Hon'ble President of India Shri Ram Nath Kovind
  Festival of Innovation and Entrepreneurship 2018
- FICCI University of the Year
  FICCI National Education Summit 2018
- Excellence in Employability
  12th FICCI Higher Education Summit 2016
- Among top 25 publicly funded University in India
  Atal Ranking of Institutions on Innovations Achievements 2020
- #8 in India
  India Today Ranking 2022
- #22 in India
  QS World University Rankings 2024
- #9 in India
  Outlook Ranking 2021
- #32 in India
  IIRF Ranking
- #9 in India
  The Week Ranking 2021
- #281 in Asia
  Asian University Ranking 2023

Publications per year	700
Citations per year	10000
Number of Patents Published (2021 - 22)	11
Number of Patents Granted (2021 - 22)	12
Total funding of R&C (approx)	2.2 Billion INR

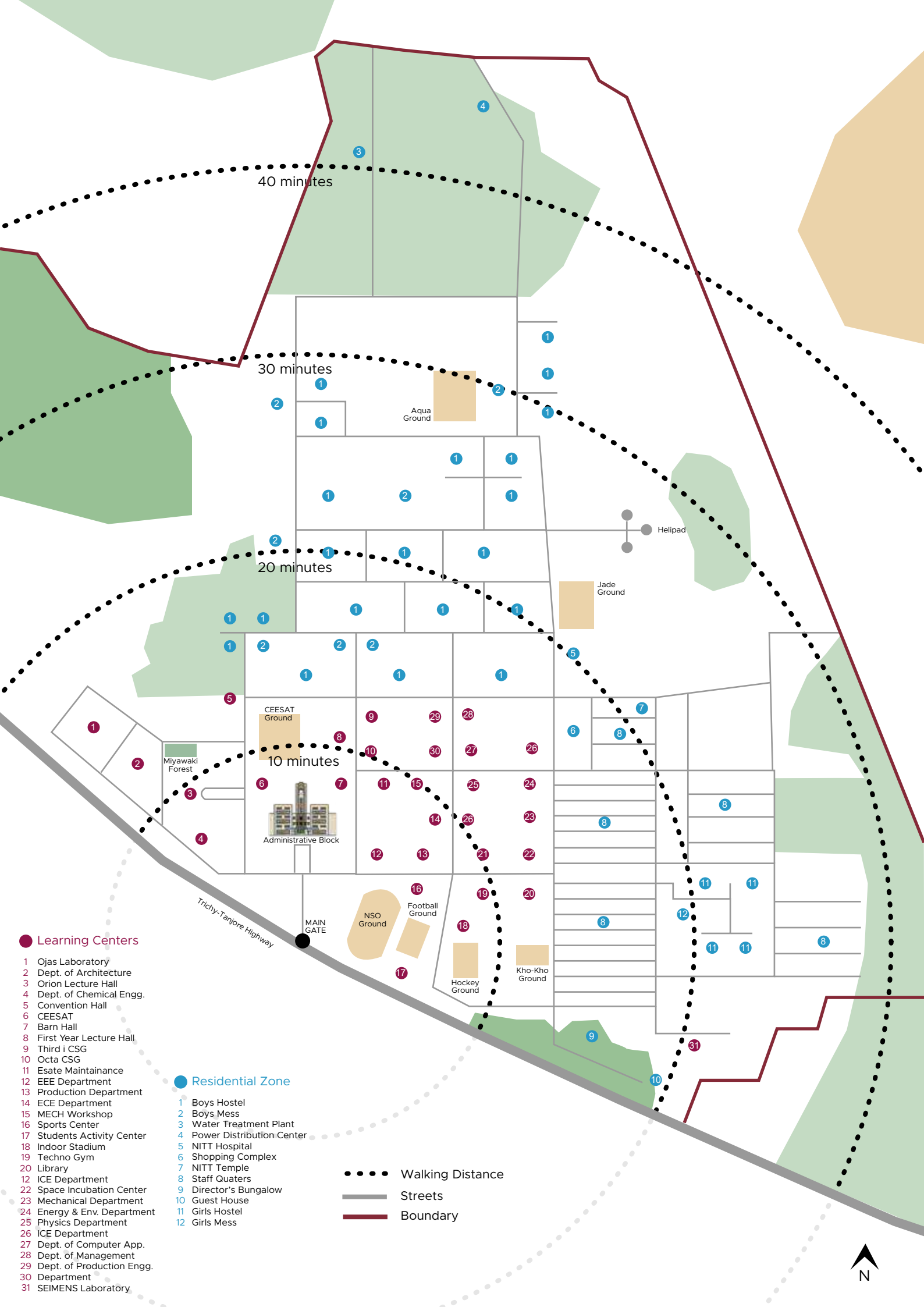
We're proud of our pioneering history, distinguished present and exciting future. NITT is a great place to recruit student for so many reasons

The Institute Day, exemplary student achievers

Achievements

NIT Tiruchirappalli was extolled by the Honourable Governor of Tamil Nadu Shri. R. N. Ravi for bagging 8th position in the recently released NIRF rankings.

On the occasion of the 18th Convocation Ceremony, chief guest Shri. Shyam Srinivasan, was all praise for the institute and the graduands. Through various examples of real-world inspirations, he addressed the students to grow through difficult times and come out with flying colors.



Learning Centers

1 Ojas Laboratory
2 Dept. of Architecture
3 Orion Lecture Hall
4 Dept. of Chemical Engg.
5 Convention Hall
6 CEESAT
7 Barn Hall
8 First Year Lecture Hall
9 Third i CSG
10 Octa CSG
11 Esate Maintainance
12 EEE Department
13 Production Department
14 ECE Department
15 MECH Workshop
16 Sports Center
17 Students Activity Center
18 Indoor Stadium
19 Techno Gym
20 Library
12 ICE Department
22 Space Incubation Center
23 Mechanical Department
24 Energy & Env. Department
25 Physics Department
26 ICE Department
27 Dept. of Computer App.
28 Dept. of Management
29 Dept. of Production Engg.
30 Department
31 SEIMENS Laboratory

Residential Zone

1 Boys Hostel
2 Boys Mess
3 Water Treatment Plant
4 Power Distribution Center
5 NITT Hospital
6 Shopping Complex
7 NITT Temple
8 Staff Quaters
9 Director's Bungalow
10 Guest House
11 Girls Hostel
12 Girls Mess

Architecture

We at NIT Trichy work with students to create, imagine and design better and efficient environment for all.

The Department of Architecture in National Institute of Technology Tiruchirappalli was started in the academic year 1980-81. Over the course of 4 decades, it stands today among top 10 architecture schools in India with specific focus on Energy Effi ciency and Green Building Design and Sustainability. The Department functions in all three segments: UG, PG and PHD. It is dedicated to the mission of creatng professionally competent architects with human values.

Department	Program/Specialisation	Course Duration	Features
Architecture	**Energy Efficient and Sustainable Architecture**	2 Years	Technical understanding of thermal omfort, building performance and crafting innovative methods to save energy and reduce carbon footprint. Deep understanding of Energy Efficiency, Occupant Comfort, Building Performance and Energy Simulations.

Labs	Climate Lab • Strength of Materials Lab • Building Science Laboratory • Acoustics Lab• Lighting Lab • Model Making Lab
Softwares	Rhino+Grasshopper, EnvironmentalPlugins(LadybugandHoneybee), IES ANSYS. Diva. Dailux. Opaque. Comfen. Revit
Curriculum	• Building Science and Sustainability • Building Modelling and Simulation • Building Energy, Audit and Management Visual Comfort Assessment • Lighting Design • Energy Environment and Buildings • Energy Efficient Landscape Design • Post Occupancy Evaluation • Environment and Behaviour• Solar Passive Architecture• Statistics for Environmental Design
Projects	Design optimization of transparent photovoltaic facades for daylight and energy performance in high rise buildings. A Study to optimize the Thermal Performance of Pradhan Mantri Awas Yozana- in hot and humid climate. Effect of shading and Reflection of Sunlight from nearby Building, and its impact on building performance (Gurugram , India) Impact of built morphology on the ventilation availability in residential buildings.

Chemical Engineering

NIT Trichy's degrees are unlike any other in the nation. They provide enormous flexibility, allowing you to create a bespoke programme.

Established in 1967, the Department of Chemical Engineering, NIT Trichy is regarded as one of the premier centers for Chemical Engineering in India by industries as well as academia. It also has the distinction of being ranked as one of the top ten Chemical Engineering Institutions in India. The department is backed by highly qualified and experienced faculty, most of who have been involved in various industrial projects and consultancy services.

Department	Program/Specialisation	Course Duration	Features
Department of Chemical Engineering	**Masters in Chemical Engineering**	2 Years	Students are imparted with knowledge in Chemical Process Equipment Design along with Chemical Reaction Engineering, Advanced Process Control and Process Modeling & Simulation. Students are also acquainted with purely industry oriented subjects like Advanced Separation Techniques and Computational Fluid Dynamics. This NBA accredited course is designed to groom students so that they extract the best talents and excel in their discipline.

Curriculum	• Chemical Reactor Analysis & Design • Advances in Fluidization Engineering • Advanced Process Control • Industrial Safety and Risk Management • Chemical Process Design • Advanced Separation Techniques • Pinch Analysis and Heat Exchange Network Design • Computational Fluid Dynamics • Process Optimization • Chemical Process Modeling and simulation laboratory • Mathematical modeling for chemical engineers, and Analytical instrumentation laboratory
Lab	• Transfer Operations lab • Process Control laboratory with multi-process trainer and several DDC systems • Simulation packages: Fluent, Aspen Plus, MATLAB, COMSOL, GPS-X, HYSYS • Unit Operations lab • Chemical reaction • Technical analysis • Momentum transfer
Projects	• Reduction in greenhouse gas emission with synergistic mixed matrix membrane for CO2 separation. • Environmental and Energy Impacts of Higher Alcohol and Biofuel Synthesis by Thermo-chemical Process (SPARC) • Ultrasonically synthesized microspheres for biomedical and food industries. (SPARC) • Design and Development of In-Situ Indigenous Soil Analysis system for effective Fertigation in Precision Farming, DST-AGROTECH • Development of new approach in waste-water treatment with self cleaning membrane technology and regeneration of membranes via natural source for restoring water ecosystem. • Biohydrogen Production from Industrial Wastewater Using Microbial Electrolysis Cell • Design of a controller for enhancing the hydrogen production in microbial electrolysis cell.

Department	Program/Specialisation	Course Duration	Features
Department of Chemical Engineering	M. Tech in Process Control & Instrumentation	2 Years	This course was started in 1996 with a specific focus on process instrumentation and control systems. It has acquired significant importance in the process industry. The program strives to train manpower for the ever increasing demands of the industry and academics in this area. Young and dynamic faculty together with state-of-the-art lab facilities makes this program one of its kind in the country.

Curriculum	• PLC and its Programming • Real time and Embedded system • Controller tuning • Logic and Distributed Control systems • System Identification and Adaptive control • Advanced Process Control • Industrial Instrumentation • Computational Techniques in Control Engineering • Process Control And Instrumentation Laboratory
Labs	• Biomedical Engineering lab • Control Engineering Lab • Embedded Systems Lab • Industrial Automation Lab • MEMS Design Centre • Modeling and Simulation Lab • Process Control Lab • Smart Structures Lab • Virtual Instrumentation Lab
Projects	• Development of nanocomposite coating on MMAW electrodes for reduction of hazardous constituents in welding fumes (Sponsored by DST-TDT-AMT) • Development and Thermal Analysis of Non-Azide Gas Generating Compositions for automotive Airbag Systems (DST-SERB) • Experimental Inves□ ga□ on of Impact Initiation of Sound/Light emiting Pyrotechnic.(Sponsored by ARMREB,DRDO) •

Civil Engineering

This degree equips students to assume a leadership position, in comprehending and changing society by the many-sided view of education.

The Department of Civil Engineering has been one of the oldest and finest departments of the Institute Established in 1964, it has been involved in making professional Civil Engineers. The highly qualified and experienced faculty along with its engineering consultancy centre has been instrumental in bringing the institute to the forefront of academic and consulting activities.

Department	Program/Specialisation	Course Duration	Features
Department of Civil Engineering	M. Tech in Geotechnical Engineering	2 Years	This course provides in-depth knowledge in Geotechnical Engineering to understand, evaluate and analyze existing techniques to give a solution for the Geotechnical Engineering problems critically and apply independent judgment to come up with advanced and reliable solutions. The curriculum was designed to use computer based modeling and numerical analysis of Geotechnical Engineering problems in various platforms. Also, to acquire professional and intellectual integrity, professional ethics and code of conduct.

Curriculum

• Geomechanics - Theory and Applications • Soil Properties and Behaviour • Foundation analysis and Design • Dynamics of Soils and Foundations • Applied Soil Mechanics • Ground Improvement Techniques • Soil Exploration and Field Testing • Geoenvironmental Engineering • Geosynthetic Engineering • Geotechnics in Practice • Analysis of Deep Foundations • Soil Structure Interaction • Slope Stability and Earth Dams • Geotechnical Earthquake Engineering • Forensic Geotechnical Engineering • Ports and Harbour Structures Engineering • Geotechnical Design Studio

Labs

• Cyclic Triaxial Apparatus • Bender Element Apparatus • Ground Penetration Radar • Dynamic Cone Penetration Test • Digiconsolidometer • Earth Resistivity Apparatus • Hydraulic Actuator –Dynamic Loading • Plate Load & Field Vane Shear Apparatus • Large Scale Direct Shear Apparatus • Light Weight Deflectometer • SASW • Dynamic Soil-Structure Interaction Facilities • Digital Direct Shear Apparatus

Projects

• Characterization of Lunar Soil Simulant for Chandrayaan Missions – ISRO Respond Project, Sponsored by URSC - ISRO, Bangalore.
• Ground Penetration Radar Study for Surface Cracks on the Runway at Chennai Airport – AAI, Chennai.
• Comprehensive Scientific Study for the Stability of Structures – IREL (India) Limited.
• Effect of Soil Water Retention Behaviour on the land use pattern for Drought Mitigation, Sponsered by SERB
• Optimization of Sustainable Polymeric Materials for a Composite Ground Modification System to Support Buildings and Road Embankments, Sponsored by SERB
• Development of 1g Laboratory Model to Study the Behavior

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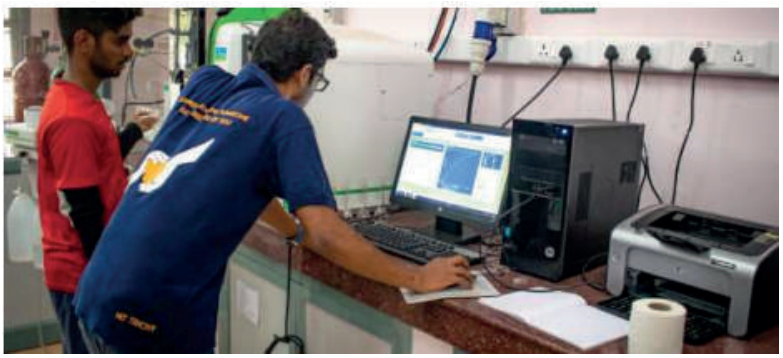


Department	Program/Specialisation	Course Duration	Features
Department of Civil Engineering	M. Tech in Environmental Engineering	2 Years	The course is aimed to develop professional engineers with leadership qualities in engineering aspects of Land & Water Management, Environmental Impact Assessment, Skills in Water Supply, Wastewater Treatment, Land Reclamation and Solute Transportation. With these skills, Graduates will be able to play a leading role in developing engineering solutions to a wide range of problems and opportunities within an ecologically sustainable context.

Curriculum

• Physico-Chemical Process for Water and Wastewater Treatment • Biological Process design for Wastewater Treatment • Modelling of Natural Systems • Analytical methods for Environmental Monitoring • Transport of Water and Wastewater • Solid and Hazardous Waste Management • Environmental Impact Assessment • Water and Air Quality Models • Environmental Process Chemistry and Microbiology • Air pollution and Control Engineering • Groundwater flow and contaminant transport through porous media • Remote Sensing and GIS for Environmental Applications • Industrial Wastewater Management • Environmental Biotechnology

Labs

• Ion Coupled Plasma Mass Spectrophotometer (ICPMS) • Atomic Absorption Spectrophotometer (AAS) • UV Visible Spectrophotometer • Gas Chromatography • TOC Analyzer • Ion Chromatography • Photo Fenton Reactor • Ultrasonicator • Membrane Bioreactor • Environmental Particulate Air Monitor • Automated Cell Counter • Muffle Furnace with microprocessor controller and Bomb Calorimeter • Ultra-pure Water Unit • Orbital Shaking Incubator • Flue Gas Analyzer • Stack Monitoring Kit • Ambient Air Sampler • Airborne Particle Counter • Projection Microscope with digital camera • Ozone Analyzer • Key Softwares: Auto CAD, Visual MODFLOW, Arc GIS, Arc View, Arc Info, ENVI, RIAM and QUAL2E

Projects

• Scientific closure of Municipal solid waste (Capping) dumpsite and development of sanitary landfill, Salem City Corporation

• Bio-Mining of the existing Municipal solid waste at Vairapalayam and Vendipalayam Dump Site, Erode City Municipal Corporation

• Revamping of existing dumped Garbage (Legacy waste) in compost yard by biomining process, Tiruchirappalli City Corporation

• Production of PHA from oily industrial wastes by immobilized bacterial consortium

• Spatio-temporal Modelling and Analysis of Urban Heat Island Effect over Bangalore and Hyderabad cities in India using Geospatial Techniques

Department	Program/Specialisation	Course Duration	Features
Department of Civil Engineering	M. Tech in Structural Engineering	2 Years	The aim of this course is to fulfill the growing demand for specialists in Structural Engineering. The curriculum is designed so as to get an exposure on areas of Structural Analysis, Design, Detailing and Construction. The course also familiarises the use of general purpose and application oriented software in the field of structural engineering, finite element analysis and optimisation.

Curriculum

• Theory of Elasticity and Plasticity • Matrix Method of Structural Analysis • Structural Dynamics • Advanced Concrete Technology • Advanced Design of Metal Structures • Finite Element methods • Stability of structures • Seismic Design of Structures • Bridge Engineering • Forensic Engineering and Rehabilitation of Structures • Theory of Plates and Shells • Prestressed Concrete • Stochastic Processes in Structural Mechanics

Labs

Structural Engineering Lab

• Column Testing Frame – 100 Tonnes Capacity • Lateral Load Testing Frame - 20 Tonnes Capacity, Vertical Load - 50 Tonnes Capacity • Loading Frame – 30 Tonnes Capacity • Table Vibrator • Pelletizer • Concrete Mixer 80 L • Column Testing Frame • Electrical Furnace • Computerized UTM • Data Acquisition system • Dynamic actuator (5 tonnes) • Industrial Furnace • Compression Testing Machine (310 tonnes)

NDT & Dynamics Lab

• Horizontal Shake Table Eccentric CAM • Vertical Shake Table 30kg Capacity • Horizontal Shake Table Cylindrical CAM • Vibrating Beam • Rapid Chloride Penetration Test Apparatus • Tuned Mass Damper • Ultrasonic Pulse Velocity Instrument • Profometer • Rebound Hammer • Corrosion Analysis Instrument • Vibration of Simple and Continuous Sup

Projects

• Analysis and Design of Large Size HRSG using Limit State Method for optimization and bringing out the salient features of Limit State Design for future application NITT-BHEL Joint Project Analysis and Design of Horizontally Spliced Steel Girders NITT-BHEL Joint Project Affordable Housing for Economically Weaker section in all Disaster-Prone Areas DST-TARE Joint Project

• Proof checking of Design for the Dailmer (India) Bus plant at Oragadom and many other projects,
• IOCL Terminal at Ulundurpettai, Tamilnadu– PDIL (GoI) – 2019-2020
• CPWD structural designs for various buildings – 2017-2020
• 500,000 liter capacity, two compartments, shaft supported funnel type Overhead Tank, with a height of 25m and 500,000 liter capacity, two compartments, Underground water sump. for BHEL Tirumayam, 2011
• Application of Natural Fiber Reinforced Polymers as Alternative to Synthetic Fiber Reinforced Polymers
• TSAMRC (Tata Steel Advanced Materials Research Centre), - TATA STEELS, Taramani, Chennai

Department	Program/Specialisation	Course Duration	Features
Department of Civil Engineering	M. Tech in Transportation Engineering and Management	2 Years	The Master of Technology course in Transportation was started in 1971 with MHRD funding under the University of Madras. One month In-plant training program is arranged for students at the end of the second semester in various Government organizations and companies to get industrial exposure which helps to groom them into competent professionals. Transportation engineering and Management has also been awarded as one of the Centre of Excellence in Transportation Engineering (CE-TransE), sanctioned by MHRD, GoI (2013) of 2 crores till Date.

Curriculum

• Highway Traffic Analysis and Design • Pavement Materials and Design • Urban Transportation Systems • Transportation Planning • Pavement Construction and Management • Intelligent Transportation Systems • Transportation Economics • Geospatial Techniques • Waterway Transportation • Computational Techniques in Transportation Engineering • Bridge Engineering • Traffic Flow Theory • Ground Improvement Techniques

Labs

Pavement Engineering Lab

• Centrifuge Extractor • Bitumen Testing Kits • Roughometer • Marshall Stability Testing Apparatus • Geogauge • Field CBR tests • Plate Load Setup • Benkelman Beam Deflection Apparatus • Corelok • Film Stripping Device • Ductility Testing Machine • Rotational Viscometer (Brookfield) • Pensky Martens Flash Point Apparatus • Marshall Stability Apparatus • Dynamic Shear Rheometer • NCAT Asphalt Content Ignite

Intelligent Transport System Lab

• Mx Road Software • Induction Loop Detector • ANPR Camera • VISSIM Software • HDM4 Software • Transyt-15 Software • N-LOGIT 5.0 Software • ESRIs Arc GIS Software • CUBE Software • Inductive loop Detector

Addition

• Speed radar Gun • Variable Message sign board (VMS) • Rolling Thin Film Oven (RTFO) • Moisture Induced Sensitivity Tester • Cannon-Manning Vaccum Visometer • Permeability Tester

Softwares

SPSS Software • MATLAB • R Software • GAMS

Projects

• Development of Optimization Models and Decision Support System for National Highways", Funding Agency-National Highway Authority of India (Ongoing).
• Evaluation of Pavement performance of Coir reinforced Rural Roads in Tamilnadu", Funding Agency-Coir Board, Ministry of MSME, Government of India (Ongoing).
• Performance evaluation of cement concrete pavements in rural roads ", Funding Agency-National Rural Infrastructural Development Agency, NRIDA (Ongoing).
• Development of Trip Generation Manual for Indian Cities" supported by Council Of Scientific And Industrial Research (CSIR), New Delhi (2021-2022) (Ongoing).
• Development of an Integrated Health Monitoring System for Large Engineering Structures ", SERB-IMPRINT IIC (Institute-Industry Collaborative project), 2019 – 2023.
• Life Cycle and Performance Assessment of Waste Plastic Roads ", Funding Agency-NRIDA, Government of India (Completed in 2021).

Department of Computer Applications

Computers are incredibly fast, accurate, and stupid. Human beings are incredibly slow, inaccurate, and brilliant. Together they are powerful beyond imagination.

The Department of Computer Applications offers the Information Technology courses which include MCA, M.Sc. Computer Science and M.Tech Data Analytics. The Department aims to provide various computer - based knowledge and solutions to simplify the complex hurdles in the real-world scenarios. It is also committed to inculcate the IT professional skills in the students and prepare them for the corporate world ahead. The Department courses cover all the aspects of computer-based industries and thus is dedicated to developing high professionals in the field of computer applications.

The Department of computer applications is one of the pioneering departments of the institute that off ers postgraduate courses in the related fields of computer science and analytics. The M. Tech Data Analytics program offered at NIT Trichy is a new addition to the institute that equips students with the analytics skills to cater to the latest demand in industry and research.

Department	Program/Specialisation	Course Duration	Features
Computer Applications	**Masters in Computer Application**	3 Years	The Master of Computer Applications program offered at NITT is considered to be the best in the country. The course starts with deep knowledge sessions on computer programming languages and includes advanced subjects like data analysis and cloud computing. It also has the software industry based subjects to develop soft skills as well as professional skills. The last semester is dedicated exclusively for project work. Thus, the curriculum covers diverse streams.

Curriculum

• C / C++ / Java / Python Programming • Design and Analysis of Algorithm • Database Management System • Data Structures • Object Oriented Analysis and Design • Operating Systems • Informal on Security • Computer Networks • Data Mining Techniques • Artificial Intelligence • Computer Organization and Architecture • Software Engineering • Distributed Technology • UNIX Shell Programming • Organizational Behaviour

Labs

• NIT Local Area Network (OCTAGON Computer Center) • Dell Power Edge Server R1950 • Pla orms such as Linux, Solaris based SUN machines • HP DEC Alpha Ultra Sparc, IBM System Storage DS3500 and IBM System 2U Server Rack • DELL Optiplex 9020 MT PCs connected to NITT LAN

Projects

- Extreme Low Light Image Enhancement using Deep Learning.
- Human Behaviour Analysis from Video Sequences using Deep Learning approach.
- Cyber Threat Intelligence General on using Deep Learning models
- Emergency Response Support System Development.
- Digital Health Records Storage and Analysis.

Department	Program/Specialisation	Course Duration	Features
Computer Applications	**Masters in Data Analytics**	2 Years	M.Tech in Data Analytics is an inter-disciplinary course started at NIT Trichy in the academic year 2017-18 offered by the Department of Computer Applications in association with the Department of Management Studies (DoMS) and Department of Computer Science. The course is structured around the broad contours of analytics and computer science to equip students with knowledge and familiarity of various tools for a data scientist.

Curriculum

• Machine Learning Techniques • Natural Language Computing • Principles of Deep Learning • Statistical Computing • Next Generation Database • Image and video analytics • Big data analytics • Cybersecurity and Information assurance • Real-Time System • High-Performance Computing • Financial risk analytics and management • Customer Relationship and Management

Labs

• State of art computing facility at octagon computer center with core i7 systems. • Servers (Dell Power Edge Server R1950 rack Mount Server) which support the LAN providing a Linux/Windows environment. • Platforms such as Linux, Solaris based SUN Machines. • HP DEC Alpha UltraSparc, IBM System Storage DS3500 and IBM System 2U Server Rack. • High-Performance Computing lab. • Natural Language Processing and text analytics lab. • Parallel Processing and Machine Learning Lab. • Image and Video Analytics. •CUDA and E-Leaning.

Projects

• Machine Learning IOT based Prediction and classification of stress using wearable sensor.
• Machine Learning approach for feature interpretation and classification of genetic mutation leading to tumor and cancer.
• Number Plate recognition of vehicles.
• Corpus Generation.
• Credit card risk detection.
• Fashion Discovery Engine.

Department	Program/Specialisation	Course Duration	Features
Computer Applications	**Masters in Computer Science**	2 Years	This program is specifically aimed to impart quality education in the field of Computer Science. M.Sc. Computer Science is a four semesters full-time Post – Graduate program spread over two years with the first three semesters concentrating on the theoretical foundation with high-quality teaching complemented with extensive practical training and the final year concentrating on project work phase I and Phase II. The course is developed to inculcate value-based, socially committed professionalism for the overall development of research atitude and life-long learning.

Curriculum

• Mathematical Foundations of Computer Science • Data Structures and Algorithms • Database Technologies • Multimedia Communications • Advanced Operating Systems • Data Mining and Analytics • Problem Solving Using Python and R • Computational Intelligence • High-Performance Computing • Web Computing • Artificial Intelligence • Pattern Recognition • Object-Oriented Software Engineering • Advanced Statistical Techniques for Data Science • Internet of Things

Labs

- State of art computing facility at octagon computer center with core i7 systems.
- Servers (Dell Power Edge Server R1950 rack Mount Server) which support the LAN providing a Linux/Windows environment.
- Platforms such as Linux, Solaris based SUN Machines.
- HP DEC Alpha Ultra Sparc, IBM System Storage DS3500 and IBM System 2U Server Rack.
- Lab facilities with the latest configuration of DELL OptiPlex 9020 systems.
- Dedicated lab for carrying out research in information security, system security and network security.

Projects

- Extreme Low Light Image Enhancement using Deep Learning.
- Human Behavior Analysis from Video Sequences using Deep Learning approach.
- Cyber Threat Intelligence Genera on using Deep Learning models.
- Emergency Response Support System Development.
- Digital Health Records Storage and Analysis.

Computer Science and Engineering

Computer science education fosters analytical and problem solving skills which are required in a variety of computer related jobs and beyond.

The Department of Computer Science and Engineering with its cohesive set of faculty members offers a sound program at UG and PG level. The department has 22 faculty members and all are doctorates. The curriculum is a blend of the conventional and theoretical aiming to infuse the culture of learning and exploration among students.

Department	Program/Specialisation	Course Duration	Features
Department of Computer Science and Engineering	**M. Tech in Computer Science and Engineering**	2 Years	The curriculum is updated regularly to keep up with the growing demands and the changing trends of the software industry and research laboratories. Research Areas in the department include Programming Languages, Computer Architecture, System Software, Networking Technologies, Artificial Intelligence, Data Analytics, and Image Processing.

Curriculum

• Mathematical Concepts of Computer Science • Advanced Data Structures and Algorithms • High Performance Computer Architecture • Advanced Network Principles and Protocols • Advanced Cryptography • Design and Analysis of Parallel Algorithms • Big Data Analytics and Mining • Advances in Operating Systems • Service Oriented Architecture & Web Security • Advanced Databases • Cloud Computing Principles • Internet of Things • Principles of Machine Learning & Deep Learning • Advanced Digital Design

Labs

- State - of - the - art computing facility at octagon with corei7 systems.
- Servers (Dell Power Edge R910 Rack Mount Servers) which provides a LAN and a Unix/Linux environment for collaborative work
- LAB facilities dedicated to students with latest configurable DELL Optiplex 9020 systems.
- A dedicated lab for carrying out Information Security, Research Security and Network Security.
- Dedicated lab with multicore systems for Research.
- Dedicated Design Lab - RISE (Reconfigurable Intelligent System Engineering) Lab.

Projects

- Interdisciplinary Research Group has been established.
- Studies on issues in Multi-Core Architecture.
- Studies on Cyber Space Security.
- Studies on Big Data Analytics and Hadoop Technologies.
- Studies on Cloud Computing and Cloud Security

Electrical & Electronics Engineering

Engineers draw on knowledge and findings from a variety of to create products and procedures throughout the academic spectrum that genuinely alter the world.

The Department of Electrical and Electronics Engineering at NIT Tiruchirappalli has evolved significantly since its inception in 1964, expanding into a robust institution dedicated to teaching and research. Boasting a team of highly qualified faculty members, the department is equipped with state-of-the-art laboratories and an extensive library. The department actively shares our research insights through engaging technical symposia.

Department	Program/Specialisation	Course Duration	Features
Department of Electrical and Electronics Engineering	**M. Tech in Power Electronics**	**2 Years**	This course emphasizes on the foundation and technologies of modern Power Electronics and automation of Power Systems. It deals with the state of art techniques in the design and development of power modules and power conversion. Apart from curriculum necessities it also covers advanced topics in microprocessor and microcontroller application in power converters which are very much needed to meet the growing challenges in the field of Electrical Engineering.

Curriculum

• Power Converters • Power Electronic Drives • Linear & Non-Linear Systems Theory • Switched Mode Power Conversion • Electric and Hybrid Vehicles • PWM Converters & Applications • Power System Automation • Industrial Control Electronics • Principles of VLSI Design • Flexible AC Transmission Systems • Renewable Power Generation Techniques • Fuzzy Systems • Grid Converters for Renewable Energy Applications • Electrical Systems in Wind Energy • Solar PV System

Labs

Power Converter Laboratory :

• Microprocessor and Microcontrollers Laboratory • Power Electronic and Drives Laboratory • Electrical Machines Laboratory • Software: MATLAB/SIMULINK 7.5, PSCAD 4.2, ETAP 4.0, Mipower 4.0, Power World Simulator, Psim v11.1.5, Proteus v8.9 • FPGA kit from Xilinx

Research Laboratory for M.Tech. & PhD. Project Works :

• Control System Research Lab • Hybrid Electrical Systems Lab • Networking Research Lab • Power Converters Research Lab(partly funded by NaMpet) • Power Electronics Research Lab • Power System Automation and Control Research Lab • Solar PV Energy Conversion Research Lab • VLSI Systems Research lab Advanced Power Converters Research Laboratory • Switched Mode Power Converters Research Laboratory

Projects

• Electronification of Ground Water Control and Conveyor Systems in Mines – Funded by Ministry of Coal, GoI. • Development of modular multilevel converter for enhancing power quality and PV output power under partial shading conditions in Grid-connected PV system – Funded by SERB. • Development of wireless sensor network for online monitoring & control in a smart micro grid application – DST sponsored. • Wireless sensor node for online data transfer of parameters from electrical machines and drives – Meity, GoI sponsored. • LC Bandpass Filter for Space Technology- Funded by ISRO. • Design and development of solar Photo Voltaic powered cold storage system. - Funded by CERi-DST.

Department	Program/Specialisation	Course Duration	Features
Department of Electrical and Electronics Engineering	**M. Tech in Power Systems**	**2 Years**	The course is designed to provide sound knowledge on various aspects of modern Power Systems with more thrust given on the key concepts of Power Electronics and automation of Power Systems. It deals with sophisticated techniques in Power System Restructuring, Forecasting and Analysis, Planning, Reliability, Security & Stability Evaluation to keep up with the ever-increasing demand in electrical power.

Curriculum

• Power System Operation and Control • Power System Stability • Advanced Power System Protection • Electric and Hybrid Vehicles • Power Quality • Advanced Power System Analysis • Power Conversion Techniques • Electrical Systems in Wind Energy • Principles of VLSI Design • Smart Grid Technologies • Renewable Power Generation Technologies • Computer Relaying and Wide Area Measurement Systems. •High Voltage DC Transmission • Distribution Generation and Microgrids • Fuzzy Systems

Labs

Power Converter Laboratory :

• Major equipment including HVDC Transmission line simulator, Microprocessor based Numerical Relays, FACTS Devices, Short/Long Transmission lines • Software: MATLAB/SIMULINK, PSCAD 4.2, ETAP 4.0, Mipower 4.0, Power World Simulator, Psim v11.1.5, Proteus v8.9 • Electrical Machines Laboratory • Power Electronics Laboratory

Research Laboratory for M.Tech. & PhD. Project Works :

• Power Systems and Smart Grid Lab. • Power System Automation and Control Research Lab. • Power Converters Research Lab(partly funded by NaMpet) • Hybrid Electrical Systems Lab • Power Electronics Research Lab • Solar PV Energy Conversion Research Lab • VLSI Systems Research lab • Electric Mobility Research Laboratory

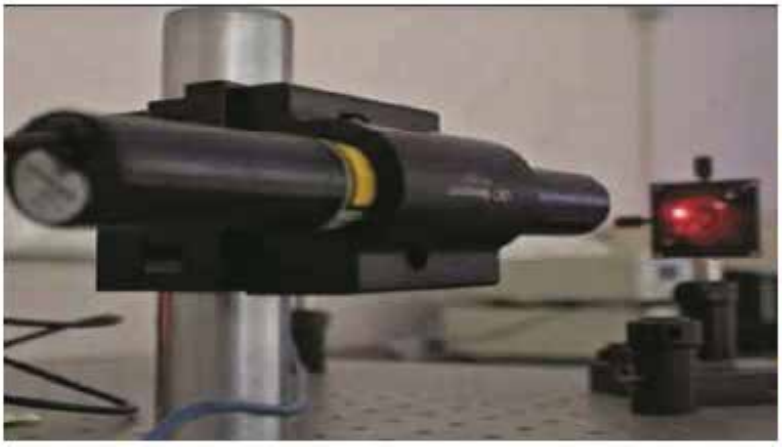
Projects

• Realization and Implementation of Wide-Area Disturbance Monitoring and Protection Methodology for Future Grids using PMUs – Sponsored by SERB- DST. • Potential Peer to Peer Transactive Energy Markets in Indian Power Distribution Systems – Funded by SPARC-MHRD • Implementation and Analysis of coupled coils at different Structures with misalignments for WPT EV battery charging - Sponsored by SERB-DST. • Investigation on Data-Driven Event Detection using Indian Power Grid's Synchrophasor Data - Sponsored by SERB-DST. A Pilot Project on Economic Demand response management through online Monitoring- Funded by SERB. A 10 kW Pilot Plant based single Axis Solar Tracking System using Second Lever Principle- Funded by DST, GoI. • Design, Implementation and Analysis of Wireless Power Transfer system and PV system for battery charging of passenger e-bus. - Funded by CPRI.

Electronics & Communication Engineering

Electric power is everywhere present in unlimited quantities and can drive the world's machinery without the need of coal, oil, gas or any other of the common fuels.

The Department of Electronics and Communication Engineering was established in 1968. Since its establishment, the Department strives to maintain its high standard by revising its academic syllabi to suit the industrial standards. The alumni consistently feed inputs for improvement on the curriculum and research facilities. The Department has inaugurated a Centre of Excellence in Electronic Packaging & Manufacturing.



Department	Program/Specialisation	Course Duration	Features
Department of Electronics and Communication Engineering	M. Tech in Communication Systems	2 Years	The course work has been designed with curriculum laying strong emphasis on rigorous mathematical foundation. With in-depth analysis on the principles of Communication and their applications with advanced concepts and recent trends in the fields of Communication and Signal Processing. The students also undergo laboratory programs on the design and implementation of DSP modules and fiber optic devices, besides devoting their entire final year to project work.

Curriculum

• High Speed Communication Networks • Advanced Digital Communication • Broadband Wireless Technologies • Pattern Recognition and Computational Intelligence • Optical Communication Systems • Design of Cognitive Radio • Microwave Integrated Circuits • DSP Structures for VLSI • Probability and Stochastic Processes • Advanced Digital Signal Processing • Photonic Integrated Circuits • Verilog HDL • Electromagnetic Meta-Materials • Design of ASICS

Labs

• The course has been framed with the right blend of both hardware and software laboratories

• The modern Microwave laboratory is equipped with microwave network analyzers, a digital spectrum analyzer and software-based MIC filter design tools

• The Fiber Optics laboratory contains application specific software packages like PHOTONICS — CAD, OPTSIM

• In addition, a CAD center for MIC and RF MEMS has been established with application on software such as IN3D, CST MS,FIDELITY and COMSOL

• Besides all these, COMMSIM, COVENTOR, INTELLISUITE, EMPIRE, ADS and ANSOFT HFSS are available for use. Also, WARP V3 KIT Test Bed for Wireless Systems is available.

Projects

• Development of Efficient Traffic Monitoring Analytics and Under Vehicle Scanning Inspection System, sponsored by Vandi Technologies, Singapore.

• Development of Dense Deployable Massive MIMO antenna system for 5G Wireless Communications with reduced correlation or Mutual Coupling sponsored by DST, New Delhi.

• Self –Energized UAV-assisted Communications for 5G Wireless Networks sponsored by SPARC and MHRD,India.

• Highly –Compact very large Mode-Area Hybrid Multi -Trench Optical Fiber for High-Power Industrial Lasing Applications sponsored by SERB.

• Management of entities in a distributed NFV Market place using Blockchain sponsored by Intel.

• Automatic prediction of Alzherimer's disease from Optical Coherence Tomography images of Retina using Artificial Intelligence.

Department	Program/Specialisation	Course Duration	Features
Department of Electronics and Communication Engineering	M. Tech in VLSI System	2 Years	The course work has been designed with curriculum laying strong emphasis on the rigorous mathematical foundation. With in-depth analysis of the principles of VLSI and their applications with advanced concepts and recent trends in the fields of VLSI and Signal Processing. The students also undergo laboratory programs on the design and implementation of DSP modules, besides devoting their entire final year to project work.

Curriculum

• Basics of VLSI • Analog IC Design • Digital System Design • Low Power VLSI Circuits • Electronic Design and Automation Tools • VLSI System Testing • High Speed System Design • Graph Theory and Optimization Techniques • Architecture of DSPs • DSP Structures for VLSI • Verilog HDL • Design of ASICs

Labs

• WARP V3 KIT Test Bed for Wireless Systems • Cadence Tools (Virtuoso, Encounter, Spectre, Assura) • Synopsys Tools (VCS, Design Compiler, Formality, Prime Power, Astro, Jupiter XT, Hercules, StarRCXT) • Mentor Graphics Tools (IC - Station, Leonardo Spectrum, Calibre, Physical Verification Tools, Parasitic Extraction Tools) • FPGA Tools from XILINX and ALTERA (Maxplus II & Quartus II), HDL Designer Tool kit, ModelSim & ASIC design tools from Mentor Graphics consis ng of Analog & Mixed-Signal ADMS.

Projects

• Energy efficient implementation of Multi -modular Exponential techniques for Public-key cryptosystems sponsored by DST, New Delhi • In-depth investigation on corrosion and tribological studies on expandable engine sponsored by DRDO • Full Duplex and Cognitive Radio Architectures for Spectrally efficient Communications sponsored by UGC and UKIERI • Adaptive Telemetry System for Launch vehicles-demonstration of Proof of Concept sponsored by ISRO • Special Manpower Development Program for Chips to System Design sponsored by MeitY, GoI • Design and Implementation of Digital modules of on-Chip Speech Recognition System sponsored by MeitY, GoI.

Energy and Environment

Degree programme in this discipline focuses on individuals as a whole, society, and the interactions and behaviours that shape the world around them.

With the focused objective of enhancing the excellence in training, research and consultancy in Energy and Environmental science, the CEESAT- Centre for Energy and Environmental Science and Technology or DEE- Department of Energy and Environment was established under the auspices of the UK-India RECs Project: Energy Theme.

Department	Program/Specialisation	Course Duration	Features
Department of Energy and Environment	**Masters in Energy Engineering**	2 Years	The two-year program is designed to equip post-graduate students with a nuanced understanding of energy principles, helping evaluate energy sources concerning economic viability and environmental impacts. An industry-centric curriculum, with the provisions of a mandatory summer internship, mini-project, and a short-term course, ensures the students obtain demand-based skills in Data Science, IoT, AI, etc.

Curriculum

• Energy Audit and Management • Computational Fluid Dynamics • Smart Grid Systems • Flexible AC Transmission System • High Voltage Direct Current • Microgrid Energy Systems Design • Design of PV, Wind Energy and Energy storage Systems • Design of Heat Transfer Equipment • Energy Systems Modelling and Analysis • Advanced Fossil Fuel Technologies • Refrigeration and Air Conditioning • Power Source for Electric Vehicles • Solar Energy Utilisation • Wind Energy and Hydro Power Systems • Wind Resource Assessment • Batteries and Fuel Cells • Environmental Engineering and Pollution Control• Environmental Impact Assessment and Economic Analysis

Lab

Curriculum Labs
- Computational Fluid Dynamics Lab (Ansys 2023 R1)
- Solar Energy Lab
- Energy Audit Lab
- Calibration Lab
- Environmental Engineering Lab

Workshop
- Renewable Energy Application Park (REAP)

Research Labs
- Energy Storage Lab
- Testing and Analysis Lab
- Bioenergy-Algae and Bio-Technological Research lab
- Waste water recovery lab
- Experimental Simulation Lab

Projects

- DST Project: "Switchable polarity solvents, magnetic nanocomposites and metabolic engineering approach for enhancing Triacylglycerol content in marine microalgae towards economic biodiesel production" .
- DST project under the scheme of Science for Equity Empowerment and Development division titled - "Biomass driven trigeneration system for improving the livelihood of Scheduled Tribes at Athanavur Village, Yellagiri Hills, TamilNadu"
- Design and development of a fully automated prototype of the IITM Biomass generation system (GAIL funded)
- O2 generation plant (Federal Bank Hormis Foundation)
- Development of Ammonia based flexible heat pipe for space application (ISRO funded)

Instrumentation and Control Engineering

The scientist discovers a new type of material or energy and the engineer discovers a new use for it.

Established in the year 1993 to cater the needs of control and instrumentation engineers in industry, R&D organization and for other service sectors in the country. The department activities are focused into three major areas namely, Instrumentation & Sensor Technology, Control & Industrial Automation and Biomedical Engineering. Students have exposed to both academia and industry through courses, industrial lecture, internship and course project at outside organizations.

Department	Program/Specialisation	Course Duration	Features
Department of Instrumentation and Control Engineering	**M. Tech in Industrial Automation**	2 Years	Students have been exposed to various facilities in the department and institute through hands on training in embedded systems, cyber security, AI programming, PLC and other required expertise. Students are familiar with the concepts of Machine Learning and Deep learning.

Curriculum

• Measurements in Manufacturing & Process Industries • Industrial Automation Systems • AI in Industrial Automation • Cyber Security in Industrial Automation • Embedded Systems • Industrial and Data Communications • Electric Drives and Control • Robotics in Industrial Automation • Industrial Internet of Things • Computer Vision and Image Processing • Network Control System • Process Instrumentation and Automation Lab • AI and Robotics Lab • Building and Infrastructure Automation

Labs

• Industrial Automation • Control Engineering • Process Control • Embedded system • Instrumentation & Sensor Design • Modelling and Simulation • Industrial water distribution network simulator • Industrial process trainers • PLC and Distributed control system • Sensor Technology for industry 4.0 • DGX1 Server & GPU Workstations • 3D Printer and Probe station • V-Amp 16 channel EEG DAS • Digital Video EEG • COMSOL MultiPhysics

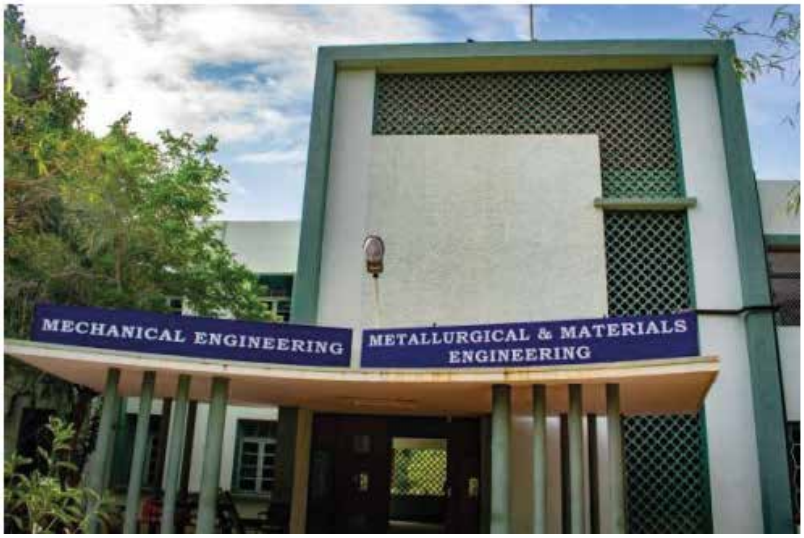
Projects

• Energy Efficient Water Distribution Management System, Ministry of Electronics and Information Technology.
• Development of an Integrated Health Monitoring System for Large Engineering Structures.
• Development of post-harvest handling and sensor-based smart packaging methods for the export of traditional banana varieties.

Mechanical Engineering

At it's heart, engineering is about using science to find creative practical solutions.

The Mechanical Engineering Department has the reputation of being amongst the finest in the country since its inception. The department strives to be at par with the latest developments in the field. With dedicated, highly qualified and experienced faculty members in all streams of Mechanical Engineering, the department aims at providing world-class facilities for education and research. An interactive relationship is maintained between the students and staff which ensures effective learning.



Department	Program/Specialisation	Course Duration	Features
Department of Mechanical Engineering	M. Tech in Industrial Safety Engineering	2 Years	A postgraduate program in Industrial Safety Engineering was started in 1985, with the support of BHEL-Trichy, as a multi-disciplinary program. The course is aimed at developing managerial and engineering skills to administer Health, Safety & Environmental functions. Continually updated curriculum addressing the current and future needs and faculty team consisting of practicing HSE professionals facilitate in transforming the students to competent professionals.

Curriculum

• Fire Engineering and Explosion control • Safety Management • Occupational Health and Hygiene • Human Factors and Ergonomics • Regulation for Health, Safety, and Environment • Computer Aided Risk Analysis • Material Handling and PPE • Safety in the Engineering Industry • Electrical Safety • Safety in the Chemical Industry • Environmental Pollution Control • Probability and Statistics • Industrial Safety Lab • Industrial Hygiene and Ergonomics Laboratory

Labs

• PPE (Personal Protective Equipment) Lab

• Safety Helmets, Safety Shields, Safety Shoes, Safety Belts, Safety Gloves, Leather Hand Sleeve, Leather Leg Guard, Ear Muff , Earplug, Safety Apron, Safety Goggles, Safety Respirators, Dust Mask

• BAM Friction Tester • Impact Sensitivity Tester • DSC (Differential scanning Calorimetry) • Fume Test Chamber

• Personal Air Sampler • High Volume Sampler • National Model Centre for Occupational Health Services (OHS) an ILO/UNDP Project of BHEL-T

• Sound Level meters, Noise dosi Meters, Air samplers, WBGT Index meters & KATA thermometer, LUX Meter, Treadmill & ECG for measuring work capacity

Projects

• Development of nanocomposite coating on MMAW electrodes for reduction of hazardous constituents in welding fumes (Sponsored by DST-TDT-AMT).

• Development and Thermal Analysis of Non-Azide Gas Generating Compositions for Automotive Airbag Systems (DST-SERB).

• Experimental Investigation of Impact Initiation of Sound/Light emiting Pyrotechnic (Sponsored by ARMREB, DRDO).

• Specific Electrical Conductivity of Kerosene Based Fuels (LPSC-ISRO).

• Safety Audit of Powermech project sites, Tamil nadu (POWERMECH PROJECTS Ltd).

Department	Program/Specialisation	Course Duration	Features
Department of Mechanical Engineering	M. Tech in Thermal Power Engineering	2 Years	This programme is designed to provide a sound and in-depth knowledge in various aspects of design, manufacture, test, control and evaluation of thermal equipment .Thermal power plants have been increasingly dominant in the power generation sector. The course content aims at developing the necessary analytical and technical competence among engineers in this area.

Curriculum

• Fuels, Combustion and Emission Control • Advanced Fluid Mechanics • Advanced Heat Transfer • Analysis of Thermal Power Cycles • Analysis and Design of Pressure Vessels • Power Plant Instrumentation • Finite Element Method in Heat Transfer Analysis • Boiler Auxiliaries and Performance Evaluation • Design and Optimization of Thermal Energy Systems • Computational Fluid Dynamics • Advanced IC Engines • Heat Transfer Equipment Design • Advanced Engineering Simulation Laboratory

Labs

• Thermal Lab: Advanced instruments like integrated thermal analyzer, Temperature calibration bath and infrared thermometer

• Metrology Lab, Turbo ,Machines lab, Dynamics Lab, Heat and mass transfer Lab, Refrigeration and Air Conditioning Lab, Automobile Lab

• CAD Centre : Advanced Modeling and Analysis Packages , Auto CAD 2000 , Ansys, Unigraphics, Pro/ENGINEER ,IDEAS and Catia

• CFD packages like Fluent/Gambit, Pheonix, Online Hue Gas Analyzer and Hightech calorimeter

Projects

• Experimental investigation of thermal cracking due to rewetting phenomena during metal quenching process (DST-SERB)

• Study on the heat transfer characteristics of low melt alloy encapsulated PCM for satellite avionics thermal management (ISRO RESPOND).

• Experimental Investigation on Dual Fuel Engine Using Compressed Natural Gas and Pyrolysis waste engine oil (DST-SERB).

• Methanol Fed High Energy Density Fuel Cell System with Novel Catalyst and Flow Field Design (DST-UKIERI)

• In depth investigations on corrosion and tribological characteristics on expendable engine (GTRE-DRDO).

• Environmental and Energy Impacts of Higher Alcohol and Biofuel Synthesis by Thermochemical Process (MHRD –SPARC)

• BARC - DAE Technologies Display and Dissemination Facility (DTDDF) – installation and research(BARC).

• Design and development of solar photo-voltaic powered cold(DST-IPHEE)

Metallurgical & Materials Engineering

NIT Trichy is a national leader in the study of the mind, behaviour, and language.

The Department of Metallurgical and Materials Engineering was established in 1967. Since its inception, It is one of the premier centers of excellence in the field of Metallurgical and Materials Sciences. It offers three PG programs with specialization in Welding Engineering, Materials Science & Engineering, and Industrial Metallurgy. All three courses have been at racing candidates with varied engineering backgrounds. Highly qualified faculty handles the lectures and in adding on, guest lectures are delivered by eminent professionals from premier organizations such as WRI-BHEL, DRDO, and IGCAR. The department also played a key role in the launching of CECASE. The department is accredited for 5 years by the National Board of Accreditation (NBA).

Department	Program/Specialisation	Course Duration	Features
Department of Metallurgical and Materials Engineering	**M. Tech in Industrial Metallurgy**	**2 Years**	This unique course ensures that the student achieves the necessary technical expertise as a practicing metallurgist in the field of manufacturing and service industries. Students undergo summer training in industries like TATA Steel, Saint Gobain, UltraTech Cement, Cummins India, Jindal Stainless Ltd., Defence Metallurgical Research Laboratory (DMRL), and ISRO to gain practical knowledge. The unique students of this course used to work and participate in multidisciplinary environments as well as to develop entrepreneur skills.

Curriculum

• Ferrous Foundry Metallurgy • Physical Metallurgy • Metal Joining • Corrosion Engineering • Surface Engineering • NDT • Industrial Heat Treatment • Welding Technology • Foundry Technology • Mechanical Behavior of Materials • Testing, Inspection and Characterization • Metal Forming • Particulate Technology • Design and Selection of Materials • Developments in Iron Making and Steel Making • Manufacturing Technology • Additive Manufacturing • Nano-Materials & Technology

Labs

• Vacuum Arc Melting, Atmosphere Controlled High Temperature Furnaces. • UTM (60T & 100T), Rockwell Hardness Tester, Brinell Hardness Tester, Micro Hardness Tester, Impact Testing Machine, Torsion Testing Machine, Jominy Hardenability Setup • Scanning Electron Microscope • Abrasion Wear Tester, High Temperature Wear Tester. • Spark Plasma Sintering, Micro Sintering furnace

Projects

• ISRO: Structure and mechanical properties of ultrafine grained Cu-Cr/Cu-Cr-Zr-Ti alloy processed by equal channel angular processing.

• CSIR: Mechano-chemical Synthesis of Nanostructured Magnesium Silicide Thermo-electric materials by Spark Plasma Sintering

• DST–EMEO : Development of Nano-Oxide Dispersion Strengthened Ferric / Martensitic Steels by Spark Plasma Sintering and Study their High Temperature Properties

• DST : Development Nano-structured Magnesium Silicide Thermo-electric materials by Spark Plasma Sintering and Evaluation of Electric Power Generation from Thermal Systems

• NRB: Development of High Strength Cast Al-Si Alloy Based Composite Reinforced with High Entropy Alloy Particles for Naval Torpedo Applications

Department	Program/Specialisation	Course Duration	Features
Department of Metallurgical and Materials Engineering	**M. Tech in Welding Engineering**	**2 Years**	The Post Graduate program in Welding Engineering was started in 1978 in collaboration with Welding Research Institute (WRI) BHEL, Tiruchirappalli. This unique course meets the growing demands of technological expertise in the field of welding. The students go through two semesters of course work learning various subjects related to Metallurgy/ Welding both from the regular faculty of the Metallurgical and Materials Engineering Department and the experts from WRI handle theory and practical classes. The students are particularly encouraged to get a feel for various welding techniques and also get exposed to Failure Analysis.

Curriculum

• Welding Metallurgy • Welding Codes and Standards • Welding Processes • Welding Application Technology • Design of Weldments • Physical Metallurgy • Testing, Inspection and Characterization • Repair Welding and Reclamation • Non Destructive Testing • Corrosion Engineering • Mechanical Behaviour of Materials • Design and Selection of Materials • Additive Manufacturing

Labs

• Invertor with CMT facility, Multipurpose Welding Invertor, MicroPlasma Welding unit, FSW Machine, SMAW, GLAW with AC & DC pulsing, GMAW, Diffusion Bonding Machine, Automated GTAW facility

• Scanning Electron Microscope, High Resolution Optical Microscope with Photographic Attachment, Image Analyzer, In-situ Metallography Facility

Projects

• UGC-DAE-CSR sponsored project: Welding of Titanium tube to Steel tube plate/tube by using an improved FWTIPET process

• VSSC/ISRO Project: Friction Stir Welding of Aluminium Alloys for Aerospace Applications

• Royal Academy UK: Application of multiscale modelling for dissimilar welding and improving graduate employability in India. A study on the properties of dissimilar weldments between P92 - S304H materials

Department	Program/Specialisation	Course Duration	Features
Department of Metallurgical and Materials Engineering	**M. Tech in Material Science & Engineering**	**2 Years**	This unique course ensures that the student achieves the necessary technological expertise required in metal fabrica. This unique course ensures that the student achieves the necessary technological expertise required in the fields of manufacturing, material development, and materials research. The students go through two semesters of course work learning various subjects related to Metallurgy / Material Science. The students are particularly encouraged to get a feel for the latest developments in Engineering Materials.

Curriculum

• Physical Metallurgy • Thermodynamics and Kinetics • Electrical, Magnetic and Optical Properties of Materials • Ceramic Science & Technology • Additive Manufacturing • Polymers and Composites • Non-Destructive Testing • Metallic Materials • Testing Inspection and Characterization • Design and Selection of Materials • Particulate Technology • Developments in Iron Making and Steel Making • Mechanical Behaviour of Materials • Surface Engineering • Manufacturing Technology • Metallurgical Failure Analysis • Corrosion Engineering • Nano-Materials & Technology

Labs

• Sieve Analyzer, Mineral Crusher, Simultaneous Thermal Analyzer, Viscosity Measurement System, Diamond Cutter, Metallography Specimen Preparation Equipment, 3D Cutter, Elecrolytic Etching Unit • Abrasion Wear Tester, High Temperature Wear Tester • Scanning Electron Microscope, High Resolution Optical Microscope with Photographic Attachment,

Projects

• DRDO/GTRE: In depth Investigations on Corrosion and Tribological properties of Expendable Engine.

• DST : Development of Black zinc Nickel Coating as Replacement to Cadmium Coating used in Aerospace and Defence Applications.

• DST : Development of Nanostructured Titanium Implants with Bioactive and Antibacterial Composite Coatings for Dental and Maxillofacial Application.

• DRDO : Fabrication of Corrosion and Wear Resistant Ceramic Composite Coatings on Al Alloys by Plasma Electrolytic Oxidation for Defense Applications.

• DST (Indo Russian Joint Project): Corrosion and Wear Resistant Ceramic Composite Coatings on Reactor Grade

Zircalloys by Plasma Electrolytic Oxidation for Nuclear Fuel Cladding Applications.

• SERB :Development of High Surface Area, Micro Porous Plasma Electrolytic Oxide Layers on Commercially Pure Titanium as Promising Systems for Photocatalytic Applications.

• ISRO: Strength Enhancement of AA2219 Aluminium Alloy Sheets/Plates by Cryo Rolling for Usage in Tankage Applications

Physics

Physics is not a subject, it's a reflection of laws of nature.

The course spans over a period of four semesters with equal emphasize on theory and hands on experience. The first two semesters are dedicated to theory, practicals and field work. The field work, where the students visit various laboratories and workshops of BHEL, exposes them to advanced NDT techniques. .

Department	Program/Specialisation	Course Duration	Features
Department of Physics	**M. Tech in Non-Destructive Testing**	2 Years	The final two semesters are dedicated for project work at prestigious industries and research institutions like CNDE IIT Madras, NAL - Bangalore, IGCAR - Kalpakkam, NML - Jamshedpur, BARC Mumbai, ISRO Trivandrum, WRI- BHEL and NDTL- BHEL. Students concurrently get qualified for ASNT Level 2, from ISNT chapter and get registered to ISNT as student members.

Curriculum

• Visual Testing • Liquid Penetrant Testing • Magnetic Particle Testing • Eddy Current Testing • Ultrasonic Testing • Radiographic Testing, Radiation Safety • Industrial Computed Tomography • Phased Array Techniques • Time of Flight Diffraction • Ultrasonic Guided Waves • Laser Ultrasonics • Non-linear Ultrasonic • Structural Health Monitoring • Acoustic Emission Inspection • Leak Testing • Thermographic NDE • Digital Signal and Image Processing • Basics of Engineering Materials • Materials Characterization Techniques • Composite Technology • Fabrication Technology • Fracture Mechanics and Failure of Materials • Corrosion • Computational Techniques

Conclaves

• Phased Array Ultrasonic Testing • Time of Flight Diffraction Testing • Thermography Inspection • Pulsed Echo Ultrasonic Technique (Analog and Digital). • C-scan Immersion Testing Machine. • Eddy Current Testing • Advanced Optical Inspection • Liquid penetrant Testing • Magnetic Particle Testing • Table Top Magnetic Particle Testing • X-ray Diff ractometer • Friction Stir Welding • X-Ray Radiographic Testing

Projects

• Development of High Surface Area, Microporous Plasma Electrolytic Oxide Layers on Commercially Pure Titanium as Promising Systems for Photocatalytic Applications. • Development of nanostructured Titanium implants with bioactive antibacterial composite for dental and maxillofacial application • Deposition of earth abundant ternary CuZnS thin films and Fabrication of Cadmium free solar cells. • Multiple Exciton Harvesting at Zero-Dimensional/Two Dimensional (ZnO/MoS2) – Polymer Heterostructures. • Conversion of Waste Energy into Useful Electricity for Wireless Sensor Nodes.

Production Engineering

To create products and procedures that effectively alter the course of history, engineers draw on thoughts and breakthroughs from a wide range of academic disciplines.

Production engineering is a professional practice of manufacturing technology with management science. The goal is to accomplish the manufacturing processes effectively and efficiently. The curriculum of Production engineering encompasses the contents with engineering materials, casting technology, machining technology,physical and mechanical joining processes, tool enigeering, metrology, manufacturing systems, automation and Rapid manufacturing.

Department	Program/Specialisation	Course Duration	Features
Department of Production Engineering	M. Tech in Industrial Engineering & Management	2 Years	This course intends to shape the students in tune with the advanced Industrial Engineering tools by imparting essential imports both on theoretical and practical exposures by the inputs in advanced topics like TQM, Computer simulation, Modelling and analysis of Modern Manufacturing Systems and Planning and Control of Manufacturing Systems.

Curriculum

• Data analytics • Industrial Engineering and Productivity Management • Analysis and control of manufacturing systems • Advanced operations and research • Intelligent Manufacturing Systems • Quality and reliability engineering • Supply chain management • Modeling, Simulation and Analysis • Financial Management • Design of Experiments • Total Quality Management & Six Sigma • Project Management • Lean & Agile Manufacturing • Advanced Optimization Techniques

Labs

• Simulation Lab — SimQuick, ARENA, WITNESS, flexsim • Intelligent System Laboratory • Operations Management —TORA, GAMS, CPLEX, OM Expert • Data analytics Lab — SYSTAT., GaBi, SPSS • CAD/CAM packages — Pro/ENGINEER Wildfi re, Ideas, Unigraphics, ANSYS 14.5 • Supply Chain Management Laboratory • Ergonomics Laboratory

Projects

• Development of tailor made spur gears for light weight and heavy duty power transmission systems - sponsored by SERB • Research work to establish HPTR brazing at GTRE - sponsored by Defence Res and Dev organisation • Research work for laser micro cladding of titanium and nickel based alloy shafts - sponsored by Defence Res and Dev organisation • Investigations on Modeling and implementation of Sustainable Manufacturing strategies in an automotive component manufacturing organization.• Investigation of Wire Electrical Discharge and Abrasive Water Jet Machining of Inconnel 617. • Machinability studies on Incoloy 800H using carbide tools • Experimental investigation on micro/nanolaser patterning for Anti-Refl ectance of Silicon.

Department	Program/Specialisation	Course Duration	Features
Department of Production Engineering	M. Tech in Manufacturing Technology	2 Years	This course intends to shape the students in tune with advanced methods of manufacturing technology by imparting essential inputs on practical and theoretical exposures vogue in present day industries with proper assistance of computer during 2 years tenure of the study, by imparting inputs by way of revising conventional topics of manufacture like CAD/CAM/CIM and FMS, inputs in allied topics like Management, Maintenance, TQM, TPM & communication.

Curriculum

• Advanced Tooling and Automation Inspection • CNC Technology • Manufacturing Management • Heat Treatment • Modeling for Manufacturing Process • Laser in Manufacturing • Manufacturing of Non-Metallic Products • Manufacturing Automation and Mechatronics • Advanced Machining Technology • Advanced Forming Technology • Advanced Welding Technology • Tribology • Additive Manufacturing • Advanced Optimization Techniques

Labs

• CAD/CAM packages — Pro/ENGINEER Wildfire, Ideas, Unig CAD/CAM/CIM Lab : Pro/ENGINEER 2000i, Unigraphics15.0, IDEAS master series 5.0, AutoCAD 2002, AutoCAD 2000, AutoCAD R14, MATLAB 7.8, Abaqus 6.09, ANSYS 14.5. • Trainer & Advanced CNC Lab : Emco PC Turn 55, Emco PC Mill 55, Triac-3-Axis Milling Machine, EMCO Compact-CNC, HMT STC-15 Turning Centre, Hardford VMC, Leadwell CNC-Turning centre • Robotics Lab • Composite Processing Lab • Micro/Nano Engineering Lab : FIST • Mechatronics Lab • Rapid Prototype Lab • Surface engineering, Tribology and Machinability • Studies lab • Advanced welding lab • Machinability studies lab • Graphics, ANSYS 14.5

Projects

• Development of tailor made spur gears for light weight and heavy duty power transmission systems - sponsored by SERB • Research work to establish HPTR brazing at GTRE - sponsored by Defence Res and Dev organisation • Research work for laser micro cladding of titanium and nickel based alloy shapes - sponsored by Defence Res and Dev organisation • Investigations on Modeling and implementation of Sustainable Manufacturing strategies in an automotive component manufacturing organization. • Investigation of Wire Electrical Discharge and Abrasive Water Jet Machining of Inconnel 617. • Machinability studies on Incoloy 800H using carbide tools. • Experimental investigation on micro/nanolaser patterning for Anti-Reflectance of Silicon.

Management Studies

The NITT Department of Management is expanding future generation's entrepreneurial leaders.

Department of Management Studies, National Institute of Technology Tiruchirappalli (DoMS NIT Trichy) is among the oldest B-Schools in India, started in 1978. DoMS-NIT Trichy teaches not just the art and science of management, but instills in its students, virtues and skills needed to make a positive impact on tomorrow's world and transform it into a better future. The institute on has a strong industry relationship and the vast source of alumni is the biggest asset that DoMS-NIT Trichy can boast off . The concept of mentorship between the students and the alumni provides a lifeline for immense growth for the DoMSians.

Department	Program/Specialisation	Course Duration	Features
Department of Management Studies	**Masters in Buisness Administration**	2 Years	This course at DoMS-NIT Trichy is a veritable treasure of learning and erudition. It emphasizes more on application of management principles and techniques in modern business through continuous industrial interactions and highlights decision making for controlling and applying management concepts. With a matured lineage of consultancy and research behind them, this exclusive group of academicians is responsible for grooming raw talents into performing prodigies.

Curriculum	Financial Derivatives, Investment Banking, Investment Security Analysis and Portfolio Management, Strategic Brand Management, Marketing Metrics, Consumer Behavior, Logistics Management, Supply Chain Management, project system management, Production Planning & Control, Personal Growth programme, Talent Management, Introduction to Business Analysis & IT Consulting, Systems Analysis & Design and CASE, Software Project Management, Basic Data Analytics, Machine Learning Techniques, Analytics for Strategic market planning
Conclaves	• • PRABANDHAN - The Guest Lecture Series by prominent industry leaders • INACON (Industry Academia Connect) -Two-day General Management Conclave • NISADYA – A 3-day Annual Management Fest specific to different domains of management.
Projects	• Inventory optimization for parts with intermitent and lumpy demand through zero inflated forecasting • Intricacies of Forex Trade • Brand engagement - Build online entity.

Clubs

Clubs, the word itself breathes creativity, lateral thinking, innovation and fun. The various hobby groups provide an opportunity for the students to exercise not only their grey cells but each and every talent hidden in them. Ranging from hi-tech inventions, from robots to building cars and gazing at the night sky, all things science and innovation form an integral part of this group.

They have done the college proud by producing prize-winning gadgets, artificial humans and knowledgeable speakers. They just simply define the aptest way to spend your free time in a useful

Dance, Music, Drama and Visual Arts are all mediums of expression of feelings of the inner self. They consist of gifted people who display their talents from time to time. These groups conduct various events at regular intervals to propagate the spirit of expression. They have won accolades in several events conducted in different colleges around the country.

Anything that captivates the eye or that comes across as a pleasing sight, is a source of positive energy for the soul and calms the mind. The various clubs dedicated to Fine Arts in the Institute do just that.

Student Groups

At NITT, we firmly believe in producing well-rounded personalities, hence it isn't all work and no play at our campus. Numerous skills and talents have been unearthed from amongst our students and to allow these talents to flourish, numerous clubs have been started for like-minded individuals to meet and polish their skills. Along with that, there are social services clubs to allow students to get in touch with reality and do their bit for the upliftment of the human race. Subdivided into various categories, you'll find clubs catering to all tastes at this campus from the highly technical ones to the social ones.

The College calendar is interspersed with numerous events whether technical or cultural, at inter departmental level or inter college level. The organisation and execution of most of these events is handled by students themselves guided by the faculty incharge. Here is a brief overview of the various events that form a part of the annual lifestyle of a NITTian.

Recreational & Relaxing

A Vibrant

Students' Life

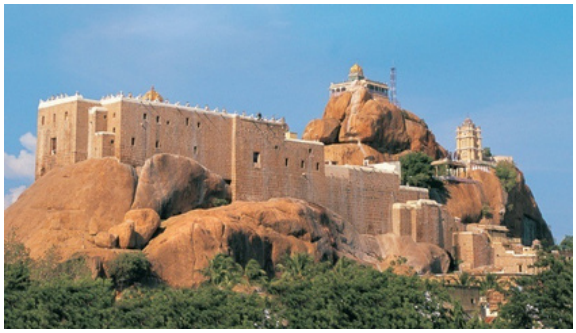
The life at the institute is a force which equips the students and prepares them for the challenges ahead. The students are the products of a transformation brought about by a rigorous academic curriculum, a healthy and interactive study culture and a broad-based orientation.

PLACES TO VISIT NEARBY

THANJAVUR

Trichy is home to the Brihadeeswara Temple, also known as the Big Temple, a stunning example of Chola dynasty architecture, renowned for its towering vimana (temple tower) and intricate carvings. This UNESCO World Heritage site, built in the 11th century by Raja Raja Chola I, stands as a testament to the grandeur and sophistication of ancient Tamil civilization.

ROCK FORT TEMPLE



The Rockfort Temple in Trichy, perched atop a massive rock outcrop, offers breathtaking panoramic views of the city and the Kaveri River. This ancient temple complex, which includes the Ucchi Pillayar Temple and the Thayumanaswami Temple, is a significant pilgrimage site and showcases remarkable Dravidian architecture.

OUR LADY OF LOURDES CHURCH

Our Lady of Lourdes Church in Trichy, modelled after the famous Basilica of Lourdes in France, is a beautiful example of Gothic architecture. This historic church, built in the late 19th century, serves as a prominent pilgrimage site and a symbol of Trichy's rich colonial heritage.

PLACES TO VISIT NEARBY

SRI RANGAM TEMPLE

The Srirangam Temple in Trichy, dedicated to Lord Ranganatha, is an architectural marvel featuring the world's largest functioning Hindu temple complex, with an expansive area of 156 acres. Renowned for its Dravidian style, the temple boasts 21 intricately carved gopurams (tower gateways), including the impressive Rajagopuram, which stands at 239 feet tall, making it one of the tallest temple towers in Asia.

KALLANAI DAM(GRAND ANAICUT)

The Kallanai Dam in Trichy, built by the Chola king Karikala in the 2nd century CE, is one of the oldest functioning water diversion structures in the world. This ancient engineering marvel, constructed across the Kaveri River, continues to play a crucial role in irrigation and agriculture in the region.

HAZRAT NATHAR VALI DARGAH

Hazrat Nathar Vali Dargah in Trichy is a revered Sufi shrine, attracting devotees from various faiths who seek blessings and spiritual solace. This ancient dargah, dedicated to the Sufi saint Nathar Vali, is known for its serene ambiance and the annual Urs festival, which celebrates the saint's legacy with great devotion and festivity

HOW TO REACH NIT TRICHY

BY AIR

From	To	Departure	Arrival	Flight No
Chennai	Trichy	05:45 AM	07:00 AM	6E7298
Chennai	Trichy	09:40 AM	10:40 AM	6E7191
Chennai	Trichy	01:05 PM	02:10 PM	6E7028
Chennai	Trichy	07:00 PM	08:05 PM	6E7238
Bengaluru	Trichy	06:05 AM	07:20 AM	6E7236
Bengaluru	Trichy	11:00 AM	12:15 PM	6E7711
Bengaluru	Trichy	05:25 PM	06:35 PM	6E7617
Bengaluru	Trichy	07:05 PM	08:25 PM	6E7165
Hyderabad	Trichy	04:25 PM	05:50 PM	6E2073
Mumbai	Trichy	01:10 PM	02:55 PM	6E542

HOW TO REACH NIT TRICHY

BY RAIL

From	To	Train Name	Departure	Arrival	Train No
Chennai	Trichy	Tejas Exp	06:00 AM	09:55 AM	22671
Chennai	Trichy	Guruvayur Exp	09:45 AM	03:00 PM	16127
Chennai	Trichy	Vandebharat	02:50 PM	06:40 PM	20665
Chennai	Trichy	Pearl City Exp	07:30 PM	12:45 PM	12963
Chennai	Trichy	MS QLN Exp	05:00 PM	09:50 PM	16101
Chennai	Trichy	Rockfort Exp	11:35 PM	04:55 AM	06547
Bengaluru	Trichy	SBC Vynk Spl	07:50 PM	03:50 PM	06547
Bengaluru	Trichy	TPJ Humsfar	01:35 PM	10:10 PM	22497
Bengaluru	Trichy	Velamkanni Exp	11:12 PM	08:20 PM	17315
Hyderabad	Trichy	Dwk Mdu Spl	11:20 AM	07:55 AM	06302

Training & Placement Cell

The Department of Training and Placement is the marketing division of the institute. Over the years, the department, acting as an interface between Institute and companies has maintained symbiolic, vibrant and purposeful relationship with industries across the country. As a result, it has built up an impressive placement record both in terms of percentage of students placed as well as number of companies visiting the campus. The department hosts companies on campus and ensures that every aspirant is assured of a bright career of their choice.

The department provides facilities for the visiting companies to conduct pre-placement talks, written tests, group discussions and interviews. Audio visual aids like laptops, LCD projectors for pre-placement talks and internet facilities for online tests will be arranged upon prior information. Conveyance from/to airport or railway station is arranged by the department. Accommodation and food is provided at the institute guest house for the company on prior intimation and the cost of these are borne by the institute. In case the company executives wish to stay outside the campus, all arangements for their accommodation will be made, but costs are to be borne by the company.

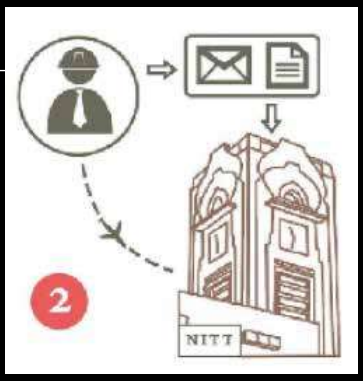
Placement Process

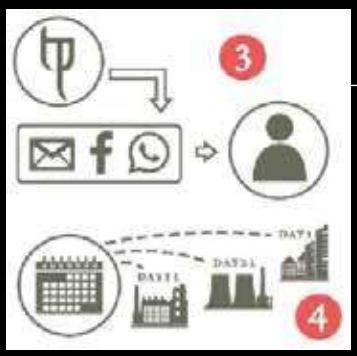
INVITATION

The Placement Office sends invitations to companies/organisationsns along with UG and PG brochures and Pre Visit Response (PVR) sheet through mail.

STUDENTS ARE NOTIFIED

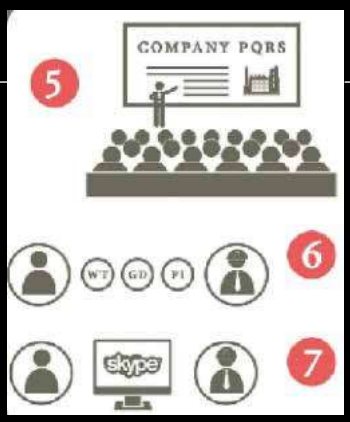
Students are notified about the company requirements and the list of the interested candidates will be collected and forwarded to the company. Dates will be allotted for the selection process on campus.





PPT AND PLACEMENT PROCESS

The Training and Placement Department will provide audio visual requirements such as laptops and LCD projectors for Pre- Placement talk before the placement procedure begins.Pre-Placement talk is followed by the placement process as per the company's requirements.

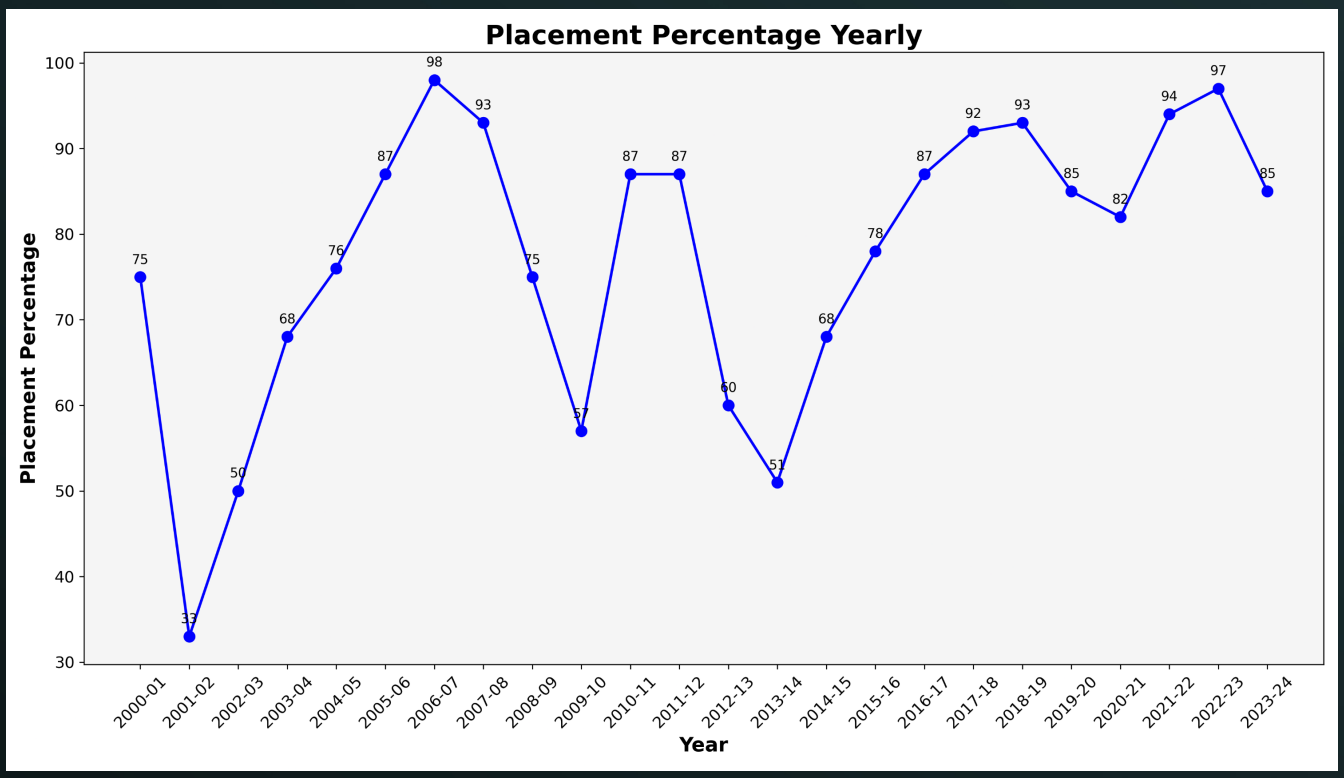


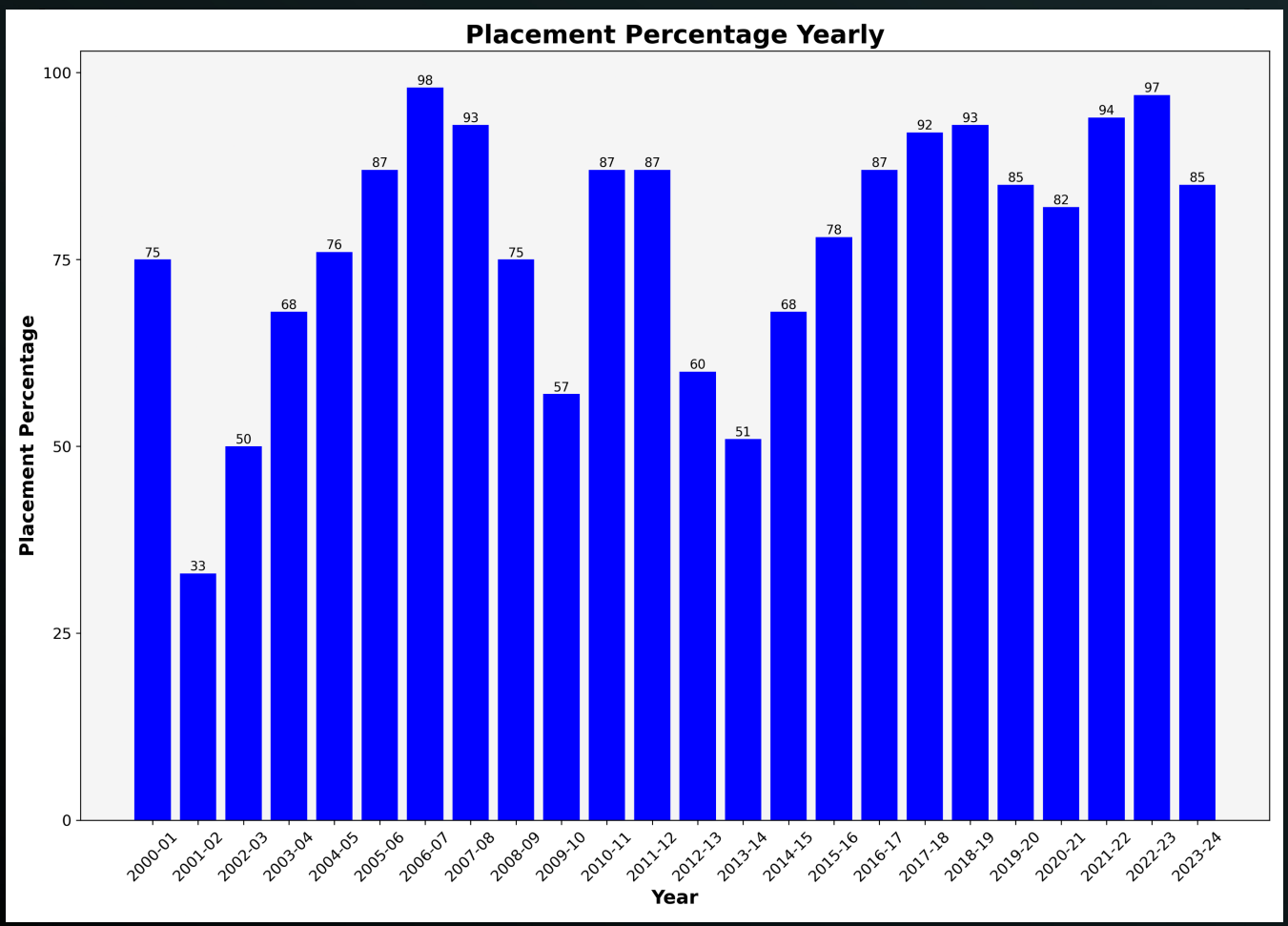
RESULTS & OFFER LETTERS

After the completion of the placement process, the company is required to give the list of the selected candidates to the Training and Placement Department on the same day itself.

Offer letters can be sent to Training and Placement Department on mail or to the address mentioned in the last page of the brochure through courier.

Recruitment Statistics





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Shapoorji Pallonji
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FEDERAL BANK YOUR PERFECT BANKING PARTNER
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dQuotient
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SG
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YOKOGAWA
TCS
Digital Marketing
ITC Limited
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Marshall
Hero
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NDTS India (P) Limited
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