



NATIONAL INSTITUTE OF TECHNOLOGY  
Tiruchirappalli



POST GRADUATE PLACEMENT INVITATION 2013

## INTRODUCTION

National Institute of Technology, Tiruchirappalli is one of the premier institutes in the country in the field of technical education where both the cream of students and faculty co-exist. Over the years, it has produced students with impeccable engineering acumen while providing a conducive environment for the development of extracurricular talent. The students also acquire strong leadership, communication and team skills which ensure a smooth and effective transition into the corporate world. Various surveys have consistently ranked NITT among the top engineering institutes in India and this is further proof that we are among the very best.

## TOP 25 ENGINEERING

OVER ALL RANK		2012	2011	
>	1	1	1	Indian Institute of Technology, Kharagpur
>	2	2	2	Indian Institute of Technology, Delhi
>	3	3	3	Indian Institute of Technology, Kharagpur
>	4	4	4	Indian Institute of Technology, Chennai
A	5	6	5	Birla Institute of Technology and Science, Pilani
V	6	5	5	Indian Institute of Technology, Roorkee
A	7	9	6	Institute of Technology, Banaras Hindu University, Varanasi
>	8	8	7	National Institute of Technology, Surathkal
A	9	13	8	National Institute of Technology, Tiruchirappalli
>	10	10	9	Indian Institute of Technology, Guwahati
V	11	7	10	Delhi Technical University (formerly DCE), Delhi
>	12	12	11	Vellore Institute of Technology, Vellore
A	13	23	12	National Institute of Technology, Calicut
A	14	20	13	PSG College of Technology, Coimbatore
V	15	11	14	National Institute of Technology, Warangal
A	16	25	15	Birla Institute of Technology, Mesra, Ranchi
A	17	22	16	Netaji Subhash Institute of Technology, Delhi
o	18	-	17	Indian Institute of Information Technology, Allahabad
V	19	16	18	College of Engineering, Pune
V	20	14	19	International Institute of Information Technology, Hyderabad
o	21	-	20	Faculty of Engineering and Technology, Jamia Millia Islamia, Delhi
o	22	-	21	Veermata Jijabai Technological Institute, Mumbai
o	23	-	22	K.J Somaiya College of Engineering, Mumbai
o	24	-	23	Sardar Patel College of Engineering, Mumbai
o	25	-	24	Indian Institute of Information Technology, Gwalior

Source : INDIA TODAY

## RECRUITERS SPEAK

“Looking forward for a long term relationship with NITT”

- Schlumberger

“Happy with commitment and dedication of students”

- GE Healthcare

“Bandwidth of knowledge is good”

- nVIDIA

“Good students with good communication skills”

- Maruti Udyog Limited

“We hope to continue this excellent relationship in the years to come”

- Microsoft

“Students are good and we are impressed with the kind of projects they do”

- Schneider Electric

“Had great recruiting experience with NIT Trichy”

- Facebook

“Hospitality was very good”

- DE Shaw and Co.

02 Selection Process

03 Master Of Business Administration (MBA)

04 Master of Computer Applications (MCA)

## M.Tech. Programmes

05 Chemical Engineering

07 Computer Science and Engineering

09 Environmental Engineering

11 Industrial Metallurgy

13 Manufacturing Technology

15 Non-Destructive Testing

17 Power Systems

19 Structural Engineering

21 Transportation Engineering and Management

06 Communication Systems

08 Energy Engineering

10 Industrial Engineering and Management

12 Industrial Safety Engineering

14 Materials Science and Engineering

16 Power Electronics

18 Process Control and Instrumentation

20 Thermal Power Engineering

22 VLSI Systems

23 Welding Engineering

## M.Sc. Programmes

24 Chemistry

25 Physics

26 Operation Research and Computer Application

## Infrastructure Noteworthy

27 Octagon

28 Library

29 Department of Training and Placement

## Location and Statistics

30 Getting Here

31 Companies Visiting Campus

32 Placement Statistics

The Management, Engineering and Science departments at NIT Tiruchirappalli offer Post-Graduate programmes leading to MBA, MCA, M.Tech., M.S. (Research), M.Sc. and Ph.D degrees. With these diverse set of programmes offering different specializations, NITT has stayed at the forefront of emerging technologies. Further, the selection procedure for the various Post-Graduate programmes at NITT ensures that only the very best of students make it to its campus.

**MBA:** The MBA programme admits students with any under graduate degree. The two year programme follows a trimester pattern covering 32 courses spread over modules of 10 weeks each and a summer project of 10 weeks. The selection is based on the score obtained in CAT, a National Level Entrance Test conducted by IIMs. Candidates are further screened through a Group Discussion and a Personal Interview before the final admission.

**MCA:** The MCA programme admits students with an under graduate degree who had mathematics in 10+2. The three year course comprises a 6-month project, where the students gain hands on experience in various technologies and 30-months of coursework to develop a sound theoretical knowledge. The selection is based on the score obtained in NIMCET, a National Level Entrance test conducted by NITs for admission to the MCA course offered by NITs.

**M.Tech:** The M.Tech. programme admits graduate students in core as well as interdisciplinary courses. The two year course comprises a 12-month research project, where the students gain hands on experience in cutting edge technology and 12- months of coursework to develop a sound theoretical base. The selection is based on the score obtained in Graduate Aptitude Test in Engineering (GATE), a highly competitive National Level Entrance Examination. The top percentile candidates short listed via this examination are then screened at the departmental level through an interview process before the final admission.

**M.Sc.:** The M.Sc. programme admits science graduates with pertinent specialization. The two year course comprises a 6-month research project, where the students gain a sound experience and 18-months of coursework to develop a sound theoretical knowledge. The selection is based on the score obtained in NITT written test. Candidates are further screened through department level interview before the final admission.

**M.S. (Research):** The M.S. (Research) programme is offered to graduates in engineering. It includes a research project, where the students get enough opportunities to carry out research in the fields of specific interest and gain hands on experience in emerging technologies and a coursework which establishes a sound theoretical background. The selection is based on the score obtained in GATE or NITT written test. Candidates are further screened through department level interview before the final admission.

## DEPARTMENT PROFILE

The Department of Management studies (DoMS) was established in 1978. The MBA programme was started in the year 1982. Aided by the state-of-the-art infrastructure, DoMS, NITT incorporates lectures, case studies, seminars, business games, simulation exercises, mini projects, unstructured group works and field visits in its teaching methods. DoMS offers dual specialization thereby developing the students' skill to cater the requirements of a competitive environment. The academicians at DoMS, NITT are a veritable treasure of learning & erudition.

## COURSE PROFILE

The programme follows a trimester pattern and imparts in-depth knowledge in the crosscuts of all academic areas and pools together resources from every functional area, thus driving home the importance of seeing the "big picture" in business. The course is designed so as to expose the students to various theoretical concepts and the best practices of the industry. The stress towards academic excellence at NIT Trichy, combined with inputs from practicing managers provide a congenial environment for nurturing managerial experience. Further, a concentrated effort is made throughout the course to incorporate computer orientation in every functional area in order to cope with the dynamic changes. The programme covers 32 courses spread over modules of 10 weeks each and a summer project of 10 weeks.

## STUDENT ACTIVITIES

The students of the school are a reflection of its capability to produce renaissance managers of the future. The classroom routine has been remarkably supplemented with efforts of the students as well as the academia in the form of clubs. They organize various events like business quizzes, stock exchange games, product promotion games and management debates. They serve as a forum for pooling in knowledge from all the departments and as a confluence of thoughts in the form of case discussions, management events and industry interaction.

## CURRICULUM

<b>Marketing</b> <ul style="list-style-type: none"> <li>• Marketing Research</li> <li>• Marketing Metrics</li> <li>• Strategic Brand Mgmt.</li> <li>• Business to Business Marketing</li> <li>• Service marketing</li> </ul> <b>Operations Management</b> <ul style="list-style-type: none"> <li>• Logistics Management</li> <li>• Technology Forecasting</li> <li>• Service Operations Mgmt.</li> <li>• Advanced Material Mgmt.</li> </ul>	<b>Finance</b> <ul style="list-style-type: none"> <li>• Financial Institutions and Services</li> <li>• Treasury Management</li> <li>• Investment Banking</li> <li>• Investment Security Analysis &amp; Portfolio Mgmt.</li> <li>• Personal Finance</li> <li>• Advanced Corporate Finance</li> <li>• Human Resources</li> <li>• Knowledge Management</li> <li>• Change Management</li> <li>• Strategic HR Development</li> <li>• Counseling in Workplace</li> </ul>	<b>Business Analysis &amp; IT Consulting</b> <ul style="list-style-type: none"> <li>• Introduction to Business Analysis &amp; IT Consulting</li> <li>• Business Analysis in Financial Services / Capital Markets</li> <li>• Business Analysis in Retail</li> <li>• Business Analysis in Manufacturing</li> <li>• Systems Analysis &amp; Design</li> <li>• Software Project Management</li> <li>• Software Quality Management</li> </ul>	<b>Business Analytics</b> <ul style="list-style-type: none"> <li>• Introduction to Business Analytics</li> <li>• Data Analytics-I</li> <li>• Data Analytics-II</li> <li>• Data mining Techniques</li> <li>• Marketing Analytics</li> <li>• Supply Chain Analytics</li> <li>• Financial Risk Analytics</li> <li>• HR Analytics</li> <li>• Digital Analytics</li> </ul>
---	--	---	---





## DEPARTMENT PROFILE

The Department of Computer Applications is one of the pioneering departments of MCA offering institutions. The MCA programme offered at NITT is considered to be the best in the country. The course provides a good theoretical foundation through high quality teaching complemented by extensive practical teaching. The main objective of the programme is to provide professional training in the area of computer applications and to develop computer professionals to meet the demand of the fast growing IT industry.

## COURSE PROFILE

This programme is specifically aimed at fulfilling the industry's growing need for competent software professionals. MCA is a six semester full time Post-Graduate programme spread over three years. The curriculum is designed to provide a solid conceptual foundation and an extensive focus on application of these concepts to real life situations. The curriculum covers diverse streams such as systems, application and management. In the first five semesters, the course content is a perfect blend of computer science, computer oriented mathematics and management science. The sixth semester is dedicated exclusively to project work.

## CURRICULUM

- |   |  |  |  |
|---|--|--|--|
| <ul style="list-style-type: none"> <li>. C / C++ / JAVA programming</li> <li>. Data structures and Algorithms</li> <li>. Data Base Management System</li> <li>. Object Oriented Analysis &amp; Design</li> <li>. Operating Systems</li> <li>. Visual Programming</li> <li>. Software Engineering</li> <li>. Computer Networks</li> <li>. Data Warehousing &amp; Data Mining</li> <li>. Software Architecture &amp; Testing</li> <li>. Image Processing</li> </ul> | <ul style="list-style-type: none"> <li>. Computer Organization &amp; Architecture</li> <li>. Organizational Behavior</li> <li>. High Performance Computing</li> <li>. System Programming</li> <li>. Mathematical techniques</li> <li>. Discrete Mathematics</li> <li>. Operations Research</li> <li>. Numerical and Statistical Methods</li> </ul> | <ul style="list-style-type: none"> <li>. Management Science</li> <li>. Accounting &amp; Financial Management</li> <li>. Management Information System</li> <li>. Advanced Topics</li> <li>. Principles of Programming Language</li> <li>. Principles of Compiler Design</li> <li>. Grid &amp; Cloud Computing</li> </ul> | <ul style="list-style-type: none"> <li><b>LAB COURSES</b></li> <li>. C / C++ / JAVA programming</li> <li>. Visual Programming (.net)</li> <li>. Data Structures</li> <li>. UNIX shell programming</li> <li>. RDBMS</li> <li>. Computer Graphics</li> </ul> |
|---|--|--|--|

## LAB FACILITIES

- . The MCA lab distinguishes itself with 100 DELL PCs and a high-speed gateway to the Octagon's central computing facilities.
- . Almost all staff members are doctorates with more than 10 years of teaching and research experience.

## ONGOING PROJECTS

- . Graph based classification of geometric shaped objects
- . Approximation algorithm for hard problems in engineering
- . A composite color-texture-object-shape feature using saturation thresholding from the HSV color fuzzy approach for content-based image and video retrieval.



## DEPARTMENT PROFILE

Established in 1968, 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. The National Board of Accreditation (NBA) has granted the department A (+3) certification for three years, the topmost any department can aspire to get. It also has the distinction of being ranked as one of the top seven Chemical Engineering divisions in India by the Chemical Engineering Faculties. The department is backed by highly qualified and experienced faculty, most of whom have been involved in various industrial projects and consultancy services.

## COURSE PROFILE

The Course offers a specialization in Chemical Engineering with specific focus on plant design. It strives to meet the growing demand of design engineers in private and public sector companies as well as consultancies by bridging the gap between a theoretically sound student and a practically qualified technocrat. Students are imparted with knowledge in advanced heat, mass, and momentum transfer along with chemical reaction engineering and process control. Students are also acquainted with the purely industry oriented subjects like Pinch Technology, New Separation Techniques & Computational Fluid Dynamics. Course is so designed to groom students that they extract the best talents out of them and excel in their discipline.

## CURRICULUM

- Chemical Reactor Analysis and Design
- Process Modelling & Simulation
- Bioprocess Engineering
- Advanced Process Control
- Process Engineering Design
- Fluid Particle Technology
- Advanced Fluid Dynamics & Heat Transfer
- Pinch Technology
- New Separation Techniques
- Computational Fluid Dynamics
- Optimization techniques
- Water & Land Pollution Control Plant Design

## LAB FACILITIES

- Unit Operations Laboratory
- Process Control Laboratory with multiprocess trainer & several DDC systems
- Chemical reaction, technical analysis, momentum transfer
- Mechanical Unit Operations Lab
- Biochemical Laboratory with biostat E, FBR & UV Spectrophotometer
- Software Packages: CFD, Aspen Plus, Hysis, ChemCAD, MATLAB

## ONGOING PROJECTS

- Investigations in mechanistic features of the Sonochemical remediation of dyes in textile effluent- DST/FTP/ETA
- Environmentally benign Aqueous Two-Phase System for effective separation of Cheese Whey Proteins (alpha-lactalbumin and beta-lactoglobulin) from dairy effluents- DST/SERC
- Analysis of flow and Heat Transfer characteristics of single and two phase flow through plate heat exchanger- CSIR
- Synthesis of novel nanotized semiconductor photocatalyst for sonophotocatalytic degradation of organic pollutants from industrial wastewater- MOEF





## DEPARTMENT PROFILE

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 of the curriculum and research facilities. The Department has recently inaugurated "Centre for Excellence in Electronics Packaging & Manufacturing".

## COURSE PROFILE

Recognizing the need for specialist engineers in the field of Communications, the department has introduced Communication Systems as a post graduate course.

The coursework 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 programmes on the design and implementation of DSP modules and fibre optic devices, besides devoting their entire final year to the project work.

## CURRICULUM

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>• Advanced Digital Signal processing</li> <li>• Advanced Digital Communication</li> <li>• High Speed Communication Networks</li> <li>• Microwave Circuits</li> <li>• Probability and Stochastic processes</li> <li>• Broadband Wireless Technologies</li> <li>• Optical Communication Systems</li> </ul> | <ul style="list-style-type: none"> <li>• Architecture of DSPs</li> <li>• DSP Structures for VLSI</li> <li>• Digital Image Processing</li> <li>• Design of Cognitive Radio</li> <li>• Spectral Analysis of signals</li> <li>• Verilog HDL</li> </ul> | <h3>LAB COURSES</h3> <ul style="list-style-type: none"> <li>• Microwave and MIC Lab</li> <li>• Fiber Optics and Communication Lab</li> <li>• Digital Signal Processing &amp; Image Processing Lab</li> </ul> |
|---|---|--|

## LAB FACILITIES

The course has been framed with the right blend of both hardware and software laboratories. The modern microwave laboratory is equipped with a microwave vector network analyzer, a digital spectrum analyzer and software based MIC filter design tools. The fiber optics laboratory contains application specific software packages like PHOTONICS - CAD and OPTSIM. In addition, a CAD center for MIC & RF MEMS has been established with application softwares such as IE3D and FIDELITY. Besides all these, COMMSIM, COVENTOR, INTELLISUITE, EMPIRE, and ANSOFT HFSS have been procured.

## ONGOING PROJECTS

- Trans-receiver design of multi-user MIMO
- Direction of arrivals estimation
- Analysis and Design of Coplanar Waveguide (CPW) Filters, AICTE, Govt. of India
- RF MEMS component (Reconfigurable Antenna)
- Low Complexity, Energy efficient Transceivers for Cognitive Radio Systems, sponsored by UKIREI, Dept. of S&T, New Delhi





## DEPARTMENT PROFILE

The department of Computer Science and Engineering with its cohesive team of faculty members, offers a sound Programme at the UG as well as the PG levels. 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 include Database Management Systems, Computer Architecture, System Software, Networking Technologies and advanced operating system concepts.

## COURSE PROFILE

This programme is aimed at providing a comprehensive overview of the later-day advances in the various frontiers of Computer Science including Computer Architecture, Software Systems, Parallel & Distributed Computing and Networking & Web Technologies. The highly experienced faculty team coupled with modern computing facilities provide an environment in which students can improve their professional skills and knowledge base which are mandatory to conquer the challenges of the future. To enhance the awareness of the rapid changes in computer science, students participate in various guest lectures and workshops conducted by eminent personalities from the industry.

## CURRICULUM

- . Advanced Data structures & Algorithms
- . Advanced Operating Systems
- . Advanced Digital Design
- . Advanced Database Management Systems
- . Distributed Systems
- . Parallel Computer Architecture
- . Design and Analysis of Parallel Algorithms
- . Fault Tolerant Computing Systems
- . Network Security
- . Network Principles and Protocols
- . Principles of Cryptography
- . Real Time Systems
- . Mobile Network Systems
- . Wireless Sensor Networks

## LAB FACILITIES

- . State-of-the-art computing facility at the Octagon with Pentium IV and Sun SPARC systems.
- . Servers which support the LAN also provide a Linux/Unix environment and include SUN SPARC and Silicon Graphics workstations
- . Lab specially dedicated to M.Tech. students with latest configuration of i-macs.
- . Dedicated lab with multi-core processors for research.
- . Digital design lab - RISE (Reconfigurable Intelligent System Engineering) lab

## ONGOING PROJECTS

- . Studies on issues in multicore architecture, Sponsored by INTEL India Pvt. Ltd.
- . CDBR-Smart & Secure Environment, sponsored by N.T.R.O, New Delhi
- . Center of excellence in social network and computing and inter-disciplinary research group has been recently established





## DEPARTMENT PROFILE

CEESAT-Center for Energy and Environmental Science and Technology emerged under the protocol signed by the Government of India and United Kingdom. The department has been established as an interdisciplinary nodal center to enhance the excellence in training, research and consultancy in Energy and Environmental Science. Main emphasis will be given to the identification of appropriate technologies for the efficient production, distribution and use of energy.

## COURSE PROFILE

The two year M.Tech course on Energy Engineering aims at offering a competency based education to emphasize an Energy Engineer to perform tasks such as

- Choosing an energy source and evaluating its economic viability.
- Choosing an energy option with reference to environmental benefits.
- Setting up energy management as a regular feature.
- Selecting appliances and designing suitable devices.
- Energy auditing and devising conservation schemes.
- Simulating energy consuming devices by CFD techniques.

## CURRICULUM

- Energy Audit and Management
- Fuels and Combustion Technology
- Solar Energy Engineering
- Thermal Engineering
- Environmental Impact Assessment and Economic Analysis
- Environmental Engineering and Pollution
- Nuclear Hydel OTEC Power Plants
- Design of Heat Transfer Equipments
- Process Modelling & Simulation
- Batteries & Fuel Cells
- Bio Energy Engineering
- Personal Management & Industrial Relations

## LAB FACILITIES

- CHNO Analyzer, Delta T Logger
- Fluidized Bed Gasifier
- Spectro Photometer, Ultimate Analyzer
- Vapor Absorption Refrigeration System
- Thermo Gravimetric Analyzer
- Wind/Solar Energy Converter
- Pyronometer
- Data Loggers and Noise Level Indicators
- Fossil & Alternate Fuel Processing Laboratory
- Environmental Engineering Laboratory

## ONGOING PROJECTS

- R & D project in " Experimental & Simulation Studies on CO<sub>2</sub> sequestration using solar, chemical methods"-DST/FTP/ETA
- Combined Pyrolysis & Steam gasification of biomass to establish multifuel production with maximum H<sub>2</sub> yield- DST/FTP
- Collaboration with University of Leeds, UK on characterization of bentonite clay for drilling application



## DEPARTMENT PROFILE

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.

## COURSE PROFILE

Post Graduate programme in Environmental Engineering was started as an interdisciplinary (Civil, Chemical & Mechanical Eng.) programme under TEQIP in 2006. The course is aimed to develop professional engineers with leadership qualities in engineering aspects of land & water management, environmental assessment, skills in water supply, waste water treatment, land reclamation and solute transport. In addition it will enable engineers to converse scientifically with biologists, ecologists and resource managers. 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

- Environmental Chemistry & Microbiology
- Physico-chemical Process for Water & Waste Water Treatment
- Solid and Hazardous Waste Management
- GIS and Remote Sensing
- Water and Air Quality Models
- Biological Process Design for Wastewater Treatment
- Transport of Water and Wastewater
- Air Quality Management
- Industrial Waste Water Management
- Environmental Impact Assessment
- Contaminant Transport Modelling

## LAB FACILITIES

- Key equipments include
- Atomic Absorption spectrophotometer
  - UV Visible Spectrophotometer
  - Ion Analyser
  - COD
  - Digester, Orbital Shaking Incubator
  - Flue Gas Analyser
  - Vehicle Exhaust Analyser
  - Diesel Smoke Meter
  - Key software include Auto CAD, Visual MODFLOW, Arc GIS, Arc View, Arc Info, ENVI, RIAM, QUAL2E.

## ONGOING PROJECTS

- Modelling of Leachate Migration from Open Dumping Site, DST
- Engineered soil waste management, MHRD
- Remote sensing application in Ambient Air Quality Monitoring, MHRD





## DEPARTMENT PROFILE

The Production Engineering department was established in the year 1981. The department aims at imparting education and training that helps the students in ensuring a challenging and satisfying career. In the modern rapidly changing technologically competitive world, there is an immense need of technocrats specialized in manufacturing and operations. Realizing this trend in the global scenario, the department offers two post graduate programmes in Industrial Engineering and Management and Manufacturing Technology.

## COURSE PROFILE

Industrial Engineering and Management is a unique discipline which amalgamates the engineering skills with business sense and managerial abilities of a technocrat. By focusing on present industrial scenario and their needs, the course equips the student with operational management skills to utilize the available resources in a cost effective and productive way. The course ensures holistic transformation of undergraduate scholars to dynamic and innovative Industrial Engineers who can design & integrate systems, analyze problems and provide permanent solutions with business consciousness.

## CURRICULUM

- Design and Analysis of Experiments
- Modelling and Simulation
- Advanced Optimisation Techniques
- System Engineering
- Data Analysis for Management
- Financial Management
- Human Resource Management
- Project Management
- Quality and Reliability Engineering
- Total Quality Management
- Supply Chain Management
- Lean and Agile Manufacturing

## LAB FACILITIES

- Simulation – Simquick, Arena, Witness,
- Operation Management – TORA, GAMS , CPLEX
- CAD/CAM packages – Pro/E Wildfire, Ideas, Unigraphics, Ansys 8.0
- Data Analysis - SYSTAT
- Supply Chain Management Laboratory

## EXPERTISE

- Supply Chain Management
- Scheduling
- Manufacturing System Simulation
- Evolutionary Optimisation
- Sustainable Product Design
- Risk Management
- Intelligent Energy Management
- Maintenance Management



## DEPARTMENT PROFILE

The department of Metallurgical and Materials Engineering was established in 1967. The department is one of the premier centers of excellence in the field of Metallurgical and Materials Science. Highly qualified faculty handle the lectures and in addition, guest lectures are delivered by eminent professionals from premier organizations such as DRDO, IISc, WRI – BHEL, and IGCAR. The Institute has MOUs with CECRI (Central Electrochemical Research Institute), Neyveli Lignite Corporation (NLC) and BHEL (Bharat Heavy Electricals Limited). The department also played a key role in the launching of CECASE (Centre of Excellence for Corrosion and Surface Engineering) and in launching a Core Group on Aerospace materials.

## COURSE PROFILE

This unique course ensures that the student achieves the necessary technological expertise required in metal fabrication industries. The course includes microscopic analysis of metals, corrosion study of these metals and their use in fabrication industries. Students undergo summer trainings in industries like Ashok Leyland (Chennai), National Aerospace Research Laboratory (NAL), Central Electrochemical Research Institute (CECRI), Defence Metallurgical Research Laboratory (DMRL) and Bhilai Steel Plant to gain practical knowledge.

## CURRICULUM

- Ferrous foundry metallurgy
- Metallurgical failure analysis
- Physical Metallurgy
- Selection of Materials
- Mechanical Behavior of Material
- Corrosion Engineering
- Surface Engineering
- Non-destructive Testing
- Developments in Iron and Steel Making
- Welding Technology
- Foundry Technology
- Metal Forming Technology

## LAB FACILITIES

- Mechanical testing: Universal Testing Machine (60 T & 100T), Haunsfield Tensometer (Digital and Manual), Rockwell Hardness Tester (Digital and Manual), Brinell Hardness Tester, Micro Hardness Tester, Impact Testing Machine, Rotary Fatigue Testing Machine, Creep Batch, Torsion testing machine, Jominy hardenability setup, Servo Hydraulic Universal Testing Machine, Constant or two speed disc polisher.
- Metallurgy: Scanning Electron Microscope, High Resolution Optical Microscope with Photographic Attachment, Image Analyzer, In-situ Metallography Facility, Microscope with CCD camera, Trinocular Optical Microscope with Digital Camera Binocular Inverted Microscope.

## ONGOING PROJECTS

- Evaluation and control of Corrosion problems in SWC pumps of Lignite mines, Neyveli Lignite Corporation (NLC).
- Consolidation of Mechanically alloyed 5083 Aluminium nano composite by equal channel angular pressing (ECAP), DST.
- Development of light weight in-situ metal-intermetallic laminates for defence applications, DRDO.
- Development of High strength, High conductivity Cu-Cr in-situ components prepared by Mechanical alloying, DST.
- Development of Ultra High strength Aluminium based in-situ Composite by Cryo-rolling, DST Fast Track



## MECHANICAL ENGINEERING



## DEPARTMENT PROFILE

The Mechanical Engineering department has the reputation of being amongst the finest in the country since its inception. Keeping itself upto date with the latest developments in the field and 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, maintained between the students and staff, ensures effective learning.

## COURSE PROFILE

Post Graduate programme in Industrial Safety Engineering was started in 1985, with the support of BHEL, Trichy, as a multidisciplinary programme. The course is aimed at developing managerial skills to administer Health, Safety & Environment programmes. Continually updated curriculum addressing the current and future needs and the faculty team consisting of practising HSE professionals facilitate in transforming the students to competent professionals.

## CURRICULUM

- Probability and Statistics
- Safety Management
- Occupational Health and Hygiene
- Safety in Chemical Industry
- Regulation for Health, Safety and Environment
- Computer Aided Risk Analysis
- Human Factors Engineering
- Environmental Pollution Control
- Safety in Engineering Industry
- Electrical Safety

## LAB FACILITIES

- PPE (Personal Protective Equipment ) Lab: Safety Helmets, Safety Shields, Safety Shoes, Safety Belt, Safety Gloves, Leather hand Sleeve, Leather Leg Guard, Ear Muff, Ear plug, Safety Aprons, Safety Goggles, Safety Respirators, Dust Mask, BAM FRICTION TESTER.
- National Model Centre for Occupational Health Services (OHS) an ILO/UNDP project of BHEL ,Trichy.
- Sound level meters ,Noise dose meters ,Air samplers ,WBGT index meter & KATA thermometer ,LUX meter ,Tread mill & ECG for measuring work capacity .

## ONGOING PROJECTS

- Modelling of environmental emission and design & development of fuzzy control fume extraction system for electrical discharge machining process – Ministry of environment and forest
- Risk assessment for Vetrivel explosives Pvt Limited. Thuriyur
- Comprehensive safety audit for M/S WIMCO Ltd, Chennai
- Offsite emergency plan for Karur District





## DEPARTMENT PROFILE

The Production Engineering department was established in the year 1981. The department aims at imparting education and training that helps the students in ensuring a challenging and satisfying career. In the modern rapidly changing technologically competitive world, there is an immense need of technocrats specialized in manufacturing and operations. Realizing this trend in the global scenario, the department offers two post graduate programmes in Industrial Engineering and Management and Manufacturing Technology.

## COURSE PROFILE

The industrial scenario today is poised for modernization and growth in manufacturing. Given the paucity of manufacturing professionals, the 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. The course aims at producing world class manufacturing engineers armed with knowledge in diversified fields of manufacturing. Graduates will expertise in core areas like design ,manufacturing , management and other related areas.

## CURRICULUM

- Casting and welding Technology
- Advances in Manufacturing Technology
- Manufacturing of Non-metallic Products
- Machine Tool Technology
- Metal Cutting Technology
- Tooling for Manufacturing
- Advanced Finite Element Analysis
- Computational Methods in Engineering
- Materials Technology
- Computer Integrated Manufacturing
- Manufacturing Management
- Tolerance Technology
- CAD/CAM
- Tribology

## LAB FACILITIES

- CAD/CAM software – Pro/E wildfire 3, Catia V5R12, UniGraphics NX2, ANSYS 11, IDEAS, Auto CAD 2006.
- Machining Centers- HARDFORD FANUCVMC, LEADWELL turning center, HMT-STC turning center, TRIAC milling machine, MCO PC TURN 55, EMCO PC MILL 55.
- Robotics- RHINO X-3 Robot work cell, Machine Vision system, SCORBOT ERS Plus.
- Micro Machining Lab – FIST
- Mechatronics Lab – FIST
- Surface Engineering Laboratory

## EXPERTISE

- Composite Material Processing
- Advanced Welding Processes
- Metal Forming
- Surface Coating
- Micro and Nano Machining





## DEPARTMENT PROFILE

The department of Metallurgical and Materials Engineering was established in 1967. The department is one of the premier centers of excellence in the field of Metallurgical and Materials Science. Highly qualified faculty handle the lectures and in addition, guest lectures are delivered by eminent professionals from premier organizations such as DRDO, IISc, WRI – BHEL and IGCAR. The Institute has MOUs with CECRI (Central Electrochemical Research Institute), Neyveli Lignite Corporation (NLC) and BHEL (Bharat Heavy Electricals Limited). The department also played a key role in the launching of CECase (Centre of Excellence for Corrosion and Surface Engineering) and in launching a Core Group on Aerospace materials.

## COURSE PROFILE

The programme in Materials Science and Engineering has been designed to meet the requirements of Manufacturing, Materials Development and Materials Research. The coursework covers both metallic and non metallic materials. Students get opportunity to do projects in various emerging fields like Powder metallurgy, Wear, Composites, Bio materials, Nano technology, Process modeling, Corrosion, etc.

## CURRICULUM

- Physical Metallurgy
- Thermodynamics
- Selection of Materials
- Mechanical Behaviour of Materials
- Ceramic Science & Technology
- Surface Engineering
- Composites and Polymers
- Ferrous foundry metallurgy
- Metallurgical failure metallurgy
- Testing inspection and characterization
- Corrosion Engineering
- Nano Materials & Technology
- High Temperature Materials
- Developments in Iron & Steel Making

## LAB FACILITIES

- Powder Metallurgy -Screw Press, High Temperature Furnaces, High Energy Ball Mills, Laser Particle Analyser
- Surface Engg - Abrasion wear Tester, High Temperature Wear Tester
- Metallography- SEM, High Resolution Microscope and Image Analyser, Trinocular Optical Microscope
- Mechanical testing - UTM (60 T & 100T), Haunsfield Testometer, Brinell, Vickers, Rockwell, Micro hardness tester, Rotary fatigue testing, Creep Testing, Impact Testing, Torsion Testing Machines
- Corrosion- Waterjet erosion, PARC Scanning Potentiostat, Salt Spray Unit
- Process Metallurgy: Thermocalc Modelling Software, thermochemical calculation

## ONGOING PROJECTS

- Evaluation and control of Corrosion problems in SWC pumps of Lignite mines, Neyveli Lignite Corporation (NLC).
- Consolidation of mechanically alloyed 5083 aluminium nano composites by equal channel angular pressing (ECAP), DST.
- Development of light weight in situ metal-intermetallic laminates for defence applications, DRDO.
- Development of iron based bulk metallic glasses through MA, DST-SERC.
- Development of nanostructure and bimodal nanostructured Aluminium alloys by severe plastic deformation, DRDO.
- Development of high strength, high conductivity Cu- Cr in-situ components prepared by mechanical alloying, DST.



## DEPARTMENT PROFILE

The department of Physics is one of the oldest and active department of NITT. Masters programme in Non-Destructive Testing, offered by the Department of Physics, is a unique course of its kind in Asia. The course is developed in line with Brunel University, U.K. It is offered under collaborative venture with NDTL of BHEL Trichy. The course and institute are recognized by ASNT and ISNT & indeed is a testimony for the interaction between industry & institution. Also the department proudly organizes "QUALITY" a national level symposium and workshop in NDT for various young talents and scientists to present their research work.

## COURSE PROFILE

Non Destructive Testing (NDT) plays a vital role in ensuring reliability and quality of the products of various engineering industries. The first two semesters are devoted to theory, practical and field work and the final two semesters are exclusively meant for carrying out project work at industries & research institutions such as CNDI(IITM), NML-Jamshedpur, IGCAR-Kalpakkam, ISRO-Trivandrum, BARC-Mumbai, DMRL and NDTL/BHEL. Core faculty of institute and senior experienced engineers of NDTL/BHEL handle the subjects. Students are exposed to trade through visits to various laboratories and workshops in BHEL. They learn many advanced techniques such as Phased Array, Real Time Radiography, TOFD, LINAC systems and many more during their field work in industries. Students concurrently get qualified for ASNT level II, from ISNT Trichy Chapter and gets registered to ISNT as student member.

## CURRICULUM

## CONVENTIONAL TECHNIQUES

- LPI and MPI methods of testing
- Eddy current testing
- Radiography methods of testing
- Ultrasonic methods of testing
- Radiation safety
- Basic metallurgy and fracture mechanics
- Fabrication technology
- ISO-9000 and ISO-14000 series and quality
- Design of weldments

## ADVANCED TECHNIQUES

- Boiler auxiliaries and performance evaluation
- Acoustic Emission Inspection
- Advanced Optical Inspection
- Leak Testing
- Digital image processing and Digital signal processing
- Fiber optic sensor
- Magnetic Resonance Imaging
- Laser & its Application in NDT

## LAB FACILITIES

- . Liquid Penetrant Testing
- . Magnetic Particle Inspection
- . Pulse Echo Ultrasonic Technique
- . Thermography Inspection
- . Advanced Optical Inspection
- . Eddy current Testing Method

## ONGOING PROJECTS

## NDT/BHEL

- Defect detection in AISI 304 Plate using Thermography.
- Ultrasonic signal detection of defects using Helbert Huang Transform.
- Non linear Ultrasonic Studies of Mild Steel.
- Radiography testing – X-ray and gamma ray sources
- Magnetic particle testing
- Leak testing, Optical holography, and Acoustic emission technique





## DEPARTMENT PROFILE

The department of Electrical and Electronics Engineering in National Institute of Technology Tiruchirappalli has grown from a modest beginning in 1964 into a large, fully equipped teaching and research department. The department has a highly qualified faculty and equipped with state-of-the-art laboratory & library. Department shares its research experience through technical symposia.

## COURSE PROFILE

This course emphasizes on the foundation and technologies of modern power electronics and automation of power system. It deals with state-of-the-art techniques in design and development of power modules and power conversion. It also covers subjects on Power electronics drives, Flexible AC transmission, High voltage DC transmission, Industrial control electronics and advanced topics in microprocessors and microcontrollers application in power converters which are very much needed to meet the growing challenges in the field of electrical engineering.

## CURRICULUM

- Power Converters
- Power electronics drives
- Switch mode power conversion
- Microcontroller application in power converters
- Industrial control electronics
- Flexible AC Transmission systems
- High Voltage DC Transmission systems
- Renewable power generation sources
- Digital signal processing and applications
- Analysis and Design of Artificial Neural Networks
- System theory
- Optimization techniques

## LAB FACILITIES

- Power Converters Laboratory
- Microprocessors & microcontrollers laboratory
- Electrical Machines Laboratory
- Research Laboratory for M.Tech & PhD project works
- Power Modules Laboratory
- Simulation laboratory software like MATLAB/SIMULINK 7.5, MP LAB IDE, PROTEUS VSM (LAB CENTRE)

## ONGOING PROJECTS

- Design & Development of improved shunt active filter with enhanced signal processing with due consideration for distorted utility- DST
- Sensorless control of electrical machines
- Analysis, design & control of wind driven electrical generator
- Design & development of power electronic controllers for renewable energy electric conversion systems
- Design & Development of switch mode power supplies



## DEPARTMENT PROFILE

The department of Electrical and Electronics Engineering in National Institute of Technology Tiruchirappalli has grown from a modest beginning in 1964 into a large, fully equipped teaching and research department. The department has a highly qualified faculty and equipped with state-of-the-art laboratory & library. Department shares its research experience through technical symposia.

## COURSE PROFILE

This course is designed to provide sound knowledge on the various aspects of modern Power Systems with more thrust on the key concepts of power electronics and automation of power systems. It deals with sophisticated techniques in power system forecasting, analysis, planning, stability evaluation, Flexible AC transmission, high voltage DC transmission, reliability and security to keep up with the ever increasing demand in electrical power.

## CURRICULUM

- Advanced power system analysis
- Power system operation and control
- Power system stability
- Advanced power system protection
- Power quality
- Industrial control electronics
- Power electronics drives
- Flexible AC Transmission systems
- High Voltage DC Transmission systems
- Renewable power generation sources
- Power conversion techniques
- Digital signal processing and applications
- Analysis and Design of Artificial Neural Networks
- Optimization techniques

## LAB FACILITIES

- Electrical Machines Laboratory
- Power System Simulation Laboratory
- Power Electronics Laboratory
- Research Laboratory for M.Tech & PhD project works
- Software Packages: MATLAB/SIMULINK7.1, PSCAD 4.2, ETAP 4.0, Mi Power 4.0

## ONGOING PROJECTS

- Power Quality improvement using unified series shunt compensator- DST
- Development of Micro-grid Test-Bed for renewable energy management system-DST
- Analysis of off-shore wind power plants with HVDC link
- Classification and location of transmission line faults using S transform & ANFLS
- Distributed generation planning with operation & reliability constraints





## DEPARTMENT PROFILE

The M.tech course is jointly offered by the Departments of Chemical Engineering (established in 1968) and Instrumentation Control and Engineering (established in 1993). The departments have been the premier centers for excellence, with several prestigious sponsored research projects and consultancy works on-going, in the fields of Chemical and Instrumentation Control Engineering, backed by highly qualified and experienced faculty. The students have also been actively participating and presenting many technical papers in various conferences in India and won several national and International level Design competitions.

## COURSE PROFILE

This course was started on 1996 with specific focus on process instrumentation and control systems and has acquired significant importance in the process industry. The programme 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 programme one of its kind in the country.

## CURRICULUM

- Instrumentation
- Industrial Communication Systems
- Modern Control Systems
- Computer Control of Process
- System Identification
- Chemical Process Flow Sheetting
- Advanced Process Control
- Chemical Process Systems
- Intelligent Control
- Digital Control Systems

## LAB FACILITIES

- Process Control Lab
- Control and Instrumentation Lab
- Embedded Systems Lab
- MEMS Design Center
- Microcontrollers Lab
- Transducer Design Lab
- Virtual Instrumentation Lab
- Electronics and Instrumentation lab

## ONGOING PROJECTS

- Projects Sponsored By
- British council ( UKIERI)
  - DST, including a FIST programme
  - ISRO
  - CDAC
  - DG CSIR



## DEPARTMENT PROFILE

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 fore front of academic and consulting activities.

## COURSE PROFILE

The aim of this course is to fulfill the growing demand for specialists in Structural Engineering. Practicing engineers will find this course very useful as it will enable them to update their knowledge in the field of structural behavior and design and will equip them to solve complicated structural engineering problems. The curriculum is designed so as to give exposure on areas of structural analysis, design, detailing and construction. The course also familiarizes the use of general purpose and application oriented softwares in the field of structural engineering, finite element analysis and optimization.

## CURRICULUM

- Theory of Elasticity and Plasticity
- Matrix Methods of Structural Analysis
- Structural Dynamics
- Advanced Concrete Technology
- Advanced Steel Structures
- Analysis of Deep Foundation
- Stability of Structures
- Finite Element Methods
- Theory of Plates and Shells
- Seismic Design of Structures
- Bridge Engineering
- Ground Improvement Techniques
- Forensic Engineering and Rehabilitation of Structures

## LAB FACILITIES

- Structural Engineering laboratory is equipped with 100 ton capacity UTM, Heavy Testing Floor with loading frame, Load Cells, Hydraulic Jack 200t, 100t Strain Data Logger, Photo Elastic Polariscopes.
- Advanced instruments include 80 channel Data log system, ACLVDT, Electro-chemical corrosion measuring instrument, 6 Channel data acquisition system
- NDT Equipments include Schmidt Hammer, Ultrasonic Testing Equipment, Electronic Cover Meter
- Software includes ANSYS 11, AutoCAD, STAAD Pro, STRAP, SAP, NASTRAN, NISA 3, GTStrudl 6.0, C & C++.

## ONGOING PROJECTS

- Analysis and design of support structure for large scale HRSG using LSM for optimization and bringing out salient features of LSD for future application - BHEL
- Non Linear soil structure interaction of piles on sloping ground, DST
- Evaluation of geotechnical properties of Lunar Soil simulant for Chandrayaan 2 Mission, ISRO
- Assessing the dynamic behaviour of aggregates crushing unit and limiting the dynamic vibration



## MECHANICAL ENGINEERING



## DEPARTMENT PROFILE

The Mechanical Engineering department has the reputation of being among the finest in the country since its inception. Keeping itself upto date with the latest developments in the field and 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, maintained between the students and staff, ensures effective learning.

## COURSE PROFILE

This programme is designed to provide a sound and in-depth knowledge in various aspects of design, manufacture, test, control and evaluation of Thermal Power Equipments. Thermal Power Plants have an increasingly dominant role to play in the vital power generation sector. The course content aims at developing the necessary analytical and technical competence among engineers in this area.

## CURRICULUM

- Mathematical Methods
- Fuels, Combustion and Emission Control
- Advanced Fluid Mechanics
- Advanced Heat Transfer
- Analysis of Thermal Power Cycles
- Analysis and Design of Pressure Vessels
- Fluid Mechanics and Turbomachines
- Instrumentation
- Computational Fluid Dynamics
- Analysis and Design of Pressure Vessels
- Energy Conservation, Management and Audit
- Advanced IC Engines
- Advanced Refrigeration and Air Conditioning
- Boiler Auxiliaries and Performance Evaluation
- Heat Transfer Equipment Design
- Installation, testing and Operation of Boilers
- Environmental Pollution Control
- Non-Destructive Testing and Failure Analysis

## LAB FACILITIES

- Thermal Lab –Advanced instruments like integrated thermal analyzer, temperature calibration bath and infrared thermometer.
- Other Labs include Metrology lab, Turbo Machines Lab, Dynamics lab, Heat and Mass transfer Lab, Refrigeration and Air conditioning Lab, Automobile Lab.
- CAD Centre –Advanced Modelling and Analysis packages, AutoCAD 2000, Ansys 11, Uni graphics, Pro/E, IDEAS and Catia
- CFD packages like Fluent /Gambit, Phoenix, Online flue gas analyzer, Ultimate analyzer and Hightech calorimeter .

## ONGOING PROJECTS

- Use of nanofluids in liquid block with rotating twist insert for electronic cooling system sponsored by CSIR, New Delhi.
- Flow visualization, heat transfer and pressure drop characteristics of hybrid nanofluids – sponsored by Dept. of Science & Technology, Govt. of India.
- Support system for FBHE coils; back pass surfaces & buckstay system for CFBC boiler for BHEL Trichy.
- Determination of load transfer pattern & stress distribution with large openings in the furnace walls of CFBC boiler for BHEL Trichy.



## DEPARTMENT PROFILE

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 fore front of academic and consulting activities.

## COURSE PROFILE

The Master of Engineering course in Transportation Engineering and Management, started in 1971 with MHRD under the University of Madras is a pioneering one. The uniqueness of this course is that it emphasizes the importance of Transportation projects. One month in-plant training program is arranged for students at the end of second semester in various Government organizations and companies to get industrial exposure and help grooming them into competent professionals.

## CURRICULUM

- Highway Traffic Analysis and Design
- Pavement Analysis and Design
- Transportation Systems
- Geographical Information Systems and Remote Sensing
- Human Resource Management
- Road Transport Management and Economics
- Transportation Planning
- Computer Simulation Applications in Transportation Engineering
- Bridge Engineering
- Theory of Traffic Flow
- Ground Improvement Techniques

## LAB FACILITIES

- Electronic CBR Apparatus
- Dynamic Cone Penetrometer, Radar Speed Gun
- Portable Axle/Wheel Weigh Pad, Geogauge
- Global Positioning Systems, Benekelman Beam
- CO/HC exhaust gas analyser, Noise Dosimeter
- Pavement Core Drilling Machine
- Fatigue Testing Machine, Merlin Roughness Indicator
- Automatic Compactor for Bituminous Mixes
- Modified Marshall Stability Apparatus
- Buoyancy Balance

## ONGOING PROJECTS

- Urban Pavement Maintenance Management System
- ITS tools for Indian Cities, sponsored by Ministry of Urban Development
- GIS based connection of rural roads, sponsored by TN Government
- Safe path for non-motorised transport and Safe path for pedestrians, sponsored by Ministry of Road Transport and Highways
- Rural Road Pavement Performance Studies sponsored by NRRDA
- Land use and Land cover assessment along Tiruchirappalli city using high resolution remote sensing images sponsored by SERB, Government of India





## DEPARTMENT PROFILE

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 of the curriculum and research facilities. The Department has recently inaugurated "Centre for Excellence in Electronics Packaging & Manufacturing".

## COURSE PROFILE

Recognizing the need for specialist engineers in the field of Integrated Circuits, the department has introduced VLSI systems as a post graduate course. The coursework has been designed with curriculum

- Laying strong emphasis on designing both analog and Digital Electronics.
- With in-depth analysis on the principles of MOSFET, BiPolar devices and their applications.
- With advanced concepts and recent trends in the fields of Digital Signal Processing, ASIC, Low power VLSI.
- With thorough knowledge on testing of Integrated Circuits.

The students also undergo laboratory programmes on the design and implementation of digital modules through Verilog HDL and analog modules through Cadence environments, besides devoting their entire final year to the project work.

## CURRICULUM

- Basics of VLSI
- Analog VLSI
- Digital System Design
- Low Power VLSI Circuits
- Electronic Design and Automation Tools
- VLSI System Testing
- Graph Theory and Optimization Techniques

- Architecture of DSPs
- DSP Structures for VLSI
- Design of Cognitive Radio
- Verilog HDL
- Designing with ASICs

## LAB FACILITIES

- Cadence tools (Virtuoso, Encounter, Spectre, Assura)
- Synopsys tools (VCS, Design Compiler, Formality, Prime time, 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 consisting of Analog & Mixed signal ADMS
- FPGA kits from Xilinx and ALTERA

## ONGOING PROJECTS

- Low complexity, energy efficient transceiver for cognitive radio systems, sponsored by UKIERI, Department of S&T, New Delhi
- Design & Implementation of low power analog front end modules for wireless sensor networks, sponsored by Ministry of Information & Communication Technology, New Delhi
- Interconnects for High Speed (4GHz) Applications
- Network on chip (NOC) design
- Mixer, Low Noise Amplifier, pipelined ADC
- Complete tapeout of two chips for the following projects
  1. Analog to Digital Converter
  2. High Speed Interconnects



## DEPARTMENT PROFILE

The department of Metallurgical and Materials Engineering was established in 1967. The department is one of the premier centers of excellence in the field of Metallurgical and Materials Science. Highly qualified faculty handle the lectures and in addition, guest lectures are delivered by eminent professionals from premier organizations such as DRDO, IISc, WRI – BHEL, and IGCAR. The Institute has MOUs with CECRI (Central Electrochemical Research Institute), Neyveli Lignite Corporation (NLC) and BHEL (Bharat Heavy Electricals Limited). The department also played a key role in the launching of CECASE (Centre of Excellence for Corrosion and Surface Engineering) and in launching a Core Group on Aerospace materials.

## COURSE PROFILE

The Post-graduate programme 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 metal fabrication industries. Both the regular faculty of the Metallurgical and Materials Engineering department and the experts from WRI handle theory and practical classes. They share their technical expertise and research knowledge. Students visit fabrication industries like BHEL and GB industry to gain practical knowledge.

## CURRICULUM

- Welding Metallurgy
- Welding Codes and Standards
- Welding processes
- Design of Weldments
- Testing inspection and characterization
- Metallurgical failure analysis
- Physical Metallurgy
- Mechanical Behavior of Materials
- Selection of Materials
- Ferrous Foundry metallurgy
- Corrosion Engineering
- Developments in Iron and Steel Making

## LAB FACILITIES

- Welding Facilities: SMAW, GTAW with AC & DC pulsing, GMAW, Diffusion Bonding Machine, Friction Stir Welding – Adapted machine, Automatic GTAW Facility, DATA Acquisition System.
- Mechanical testing - UTM (60 T & 100T), Haunsfield Testometer, Brinell, Vickers, Rockwell, Micro hardness tester, Rotary fatigue testing, Creep Testing, Impact Testing, Torsion Testing Machines
- Metallography: Scanning Electron Microscope, optical Microscope with Photographic Attachment, Image Analyzer, Insitu Metallography Facility, Microscope with CCD camera, Trinocular Optical Microscope with Digital Camera Binocular Inverted Microscope.

## ONGOING PROJECTS

- The effect of Micro Arc Oxidation process on corrosion and fatigue properties of Aluminium alloy and its weldments used in naval applications, Naval Research Board (NRB).
- Development of Improved Friction Stir Welding process to weld high strength materials, DRDO.
- Friction Stir Processing on Similar- Dissimilar Welds of Aluminium Alloys used in Naval Applications – NRB.
- Evaluation and control of Corrosion problems in SWC pumps of Lignite mines, Neyveli Lignite Corporation (NLC).
- Development of Iron based bulk metallic glasses through MA, DST – SERC.





## DEPARTMENT PROFILE

The Department of Chemistry was established in 1971. It possesses excellent facilities and sophisticated equipment for the students during their course of study. The department has five laboratories which are well equipped to meet the demand of the students. Recent achievements include a collaborative investigation study with E. Merck, USA, Virginia Tech., USA and National Cancer Institute, USA towards the development of the

## COURSE PROFILE

The Post Graduate Programme in Chemistry is empowered to satisfy the knowledge of current advancements in the field of Chemistry. The competently designed and regularly reviewed curriculum, synergized with periodical industrial visits, enable the students to cater the growing needs of industry and the challenging trend of the research laboratories.

## CURRICULUM

- . Organic Chemistry
- . Inorganic Chemistry
- . Computational Chemistry
- . Spectroscopic Techniques
- . Natural products and polymer Chemistry

- Organic Qualitative and Quantitative analysis
- . Inorganic Qualitative and Quantitative analysis
- . Physical Chemistry
- . Analytical Chemistry

## LAB FACILITIES

- Plasma reactor, Spectrofluorimeter
- Electro-chemical analyzer
- Pulse polarograph, Sophisticated instruments lab
- Bi-gradient High performance liquid chromatography
- BOD incubator cum analyzer
- Fourier transform IR spectrophotometer
- Thermo gravity/ Differential thermal analyser
- Electro orbital shaker with incubation hood
- Auto magnetic susceptibility balance
- Wet analysis lab

## ONGOING PROJECTS

- Spectroscopic characterization of the agostic interactions and the co-ordination mode of transition metals in the functionalized multidentate scorpionate ligand.
- Synthesis and characterization of functionalized multidentate Janus scorpionate ligands and their co-ordination modes in transition metals.
- Silica immobilized Ruthenium and enzyme catalyzed dynamic kinetic resolution of secondary Alcohols: A novel approach for chiral synthesis.





## DEPARTMENT PROFILE

The department of Physics is one of the oldest and active organs of the Institute. It has always played a vital role in building a team of fresh technocrats and brilliant researchers. The distinguished faculty members contribute to Science and Technology in various key areas like Laser Instrumentation, Laser and its applications, Crystallography, Ultrasonics, Thin Film Technology, Nanoscience and Technology, Fiber Optic Sensors and many emerging Fields.

## COURSE PROFILE

The post graduate programme in physics is designed to offer in-depth knowledge in various aspects of science and technology to match the needs of applied areas such as digital signal and image processing, fiber optics communication, programming skills, thin film technology and latest trends of nanotechnology. The programme curriculum is not restricted to pure physics alone but involves interdisciplinary topics which showcase the possibilities of physics in other fields also.

## CURRICULUM

- . Digital Signal and Image Processing
  - . Physics and Technology of Thin Films
  - . Programming in C and Numerical Methods
  - . Sensors and Transducers
  - . Microprocessors
  - . Laser and its Applications
  - . Electronics
  - . Mathematical Physics
  - . Instrumentation
  - . Electromagnetic Theory
- . Atomic and Molecular Physics
  - . Thermodynamics and Statistical Physics
  - . Fiber Optic Sensors
  - . Quantum Mechanics
  - . Nanoscience and Technology and Applications
  - . Classical Mechanics
  - . Nuclear & Particle Physics DSP (Theory & Practical)
  - . Non destructive Testing
  - . Computer applications in physics

## LAB FACILITIES

- . X-ray Diffractometer, Nanomaterials Lab
- . Thin Film Preparation, Robotics Lab
- . Fiber Optic Sensors Lab
- . UV-Visible spectrometer, Holography Lab
- . Advanced Materials Lab
- . Materials Processing Lab
- . Advanced Functional Materials Lab
- . Vibrating Sample Magnetometer Lab
- . Magnetic Materials Lab

## ON GOING PROJECTS

- . Development & Characterization of one dimensional Oxide Nano Material for gas sensing applications
- . Codoping & Bandgap engineering in ZnO thin films for Optoelectronic Applications.
- . Nano-Porous Hydroxyapatite Nanocomposite Tissue Engineering Applications.
- . Synthesis & excitation dynamic study on Semi Conductor Quantum dot Nanocomposite Polymer.
- . Development of Magnetic Nano Particles for Detoxification and Drug Delivery.





## DEPARTMENT PROFILE

The department of Computer Applications is one of the pioneering departments of the Institution. It is committed to the cause of quality education in mathematics that forms the basis for all the other fields and IT, a field growing in leaps and bounds. It is dedicated to the mission of developing highly skilled professionals who can adapt to the dynamic changes of the IT industry.

## COURSE PROFILE

The Master's programme in Operations Research & Computer Applications (OR & CA) was started in 1993-94 and it is a multifaceted course following a three semester theory and one semester project pattern covering topics from Operations Research and Computer Applications. This course provides requisite standards to withstand the emerging challenges of the corporate world. In addition it generate quality optimizers and potential software professionals with unified foundation in the fundamental areas.

## CURRICULUM

- . Operations Research / Management Science
  - . Linear Programming & Simulation
  - . Non - Linear Programming
  - . Data Analytics
  - . Replacement, Reliability and Network Models
  - . Data Base Management Systems
  - . Data Structures and Algorithm
  - . Software Engineering
- . Discrete Mathematics
  - . Computer Organization and Architecture
  - . Programming in C and C++
  - . Operating Systems
  - . Visual Programming
  - . Inventory Theory and Dynamic Programming
  - . Probability, Statistics and Estimation
  - . OOP, Analysis and Design

## LAB FACILITIES

- . NIT Local Area Network (OCTAGON Computer Center)
- . Pentium based servers
- . Platforms such as Linux, Solaris based SUN Machines, HP DEC Alpha Ultra Sparc, Silicon Graphics workstations
- . Pentium based DELL n-series PCs connected to the NIT LAN

## ONGOING PROJECTS

- . Graph based classification of geometric shaped objects
- . Approximation algorithm for hard problems in engineering
- . A composite color-texture-object-shape feature using saturation thresholding from the HSV color fuzzy approach for content- based image and video retrieval





## INTRODUCTION

The sterling hallmark of the campus is the OCTAGON computer centre. This centre serves the campus wide LAN which caters to 1300 users across the campus at the same time and has a 100 Mbps fiber optic backbone. The Octagon has a server room with 30 servers, 800 high end computers and four user labs. A printer room equipped with two high speed printers which can print upto 50 ppm, it also has centralized air conditioning and uninterrupted power supply. A new annexe building with a capacity of 200 computers has come up next to Octagon. It has 2 labs, one which is connected to 8Mbps leased line from STPI while the other is a general lab

acting as an extension to the ones already present in the Octagon. Arrangements can be made prior intimation to use the computers in the Internet Lab for conducting online tests. The Computer Support Group offers courses under its continuing education programme for the students as well as the local community.

## RESOURCES

### UNIX Servers/Workstation

- Sun Fire- Solaris Server
- Sangam-Linux File Server
- Platinum-Internet Proxy Server
- Windows Server/Workstation
- Aditya-Network Storage Server
- Agni-Windows 2003 File cum Domain Server
- Recnet-Internet Accounting Server
- Novell Netware Servers
- Vayu-Secondary Netware File Server
- Sakthi- Office Automation Server

- DTP Packages
- Applied EEE
- Control Systems

### Operating Systems

- Windows XP Pro /Vista SP2 /Windows 7
- Red Hat Enterprise Linux AS release 5.x
- Fedora 12, 11
- SUN Solaris 10
- Apple MAC OS

### Software

- Microsoft C V5.1
- Lisp
- Lotus Notes 2.6
- Microsoft Office 2007
- Matlab R2010a with Simulink
- SQL Server
- Star Office
- Oracle 11i
- Visual Studio .NET 2008/2010
- Lotus Notes
- Power Builder

### CAD/CAM Packages

- Pro/Engineer Wildfire 5
- CATIAV 5R20
- UniGraphics
- Solid Works
- AutoCAD 2010
- Maya 8
- Fluent
- Gambit
- Adobe, Corel & Macromedia Products
- Ansys 12.0.1

## LAB FACILITIES

Electronic CAD(ECAD) Lab: ORCAD, PSPICE MAXPLUS II, XILINX's FOUNDATION Series, Synopsys Leonardo Synthesizer Model Tech Corporation's MODEL SIM & SABER. It also has the required hardware for programming the Xilinx's FPGA and CPLD.

DSP Design Lab: Texas Instruments TMS32C6X Evaluation Module(EVM), 6X simulator, TMS320C54X5X and 3X Kits and Simulator. This lab is used predominantly for project work . development of EVM TMS320C6X is under progress .





## INTRODUCTION

The institute has a modern central library with more than one lakh documents consisting of technical books, reports, standards and back volumes of journals. The library subscribes to 179 periodicals (print) plus 1000+ (e-journals) besides a holding of 15943 bound volumes of journals (back numbers). The library also contains 15,000 books in the book bank. Besides the central library, each department has its own library.

The open access system is observed in the library. Our institute is holding membership with British Council Library, Chennai. We are also holding membership with DELNET, New Delhi for interlibrary loan. The library functions such as acquisition, circulation control, cataloging and serials control have been automated using an integrated software called "LIBSYS".

## INDEST CONSORTIA

As a member of Indest Consortia (MHRD initiative) NITT library is allowed to access the following e-journal databases for accessing more than 5000 full text e-journals.

- IEL (113 journals): Access to the full archives of IEEE and IEE publications are available from 1998 to the present.
- Sciencedirect (334 journals)
- Springerlinks (498 journals)
- ASTP (160 journals)
- ACM (30 journals)
- ASME (18 journals)
- INDIAN STANDARDS on intranet.

## SPECIAL SERVICES

- CD-ROM search service.
- Audio-visual service (educational cassettes).
- Membership to external agencies and individuals.
- Wireless fidelity service.
- Bulletin board service.
- News headlines with weekly update.
- Current awareness service.

## STATISTICAL DATA

- Library Books – 107571
- e-books titles accessible through Springer (India) Pvt. Ltd – 670.
- Journals subscribed – 205
- e-journals subscribed under TEQIP – 9
- Back volumes – 17454
- Reports – 7786
- B.I.S. - 12449
- Video cassettes – 1504
- Audio cassettes – 31
- CD-ROM databases - 1367



## INTRODUCTION

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 symbiotic, 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 his/her choice.

## FUNCTIONS AND RESPONSIBILITIES

- Nurtures industry institute interaction, by organizing and coordinating frequent industrial visits, inplant training and projects of industrial relevance for the students, with the sole aim of zeroing down the hiatus between the industry and the academia.
- Organizes and coordinated campus placement program, to fulfill its commitment of a career to every aspirant.
- Helps every student define his/her career interest through individual expert counseling.
- Makes available updated database and job profile of the companies and thus helps each student analyze and choose company of his/her interest. The department has in its active file of nearly 500 companies.
- Works towards continuing education for the employees
- Receives and forwards the feedback pertinent to curriculum improvement from the visiting companies to the faculty, to ensure that the curriculum follows the latest industrial trends.

## HOSTING COMPANIES ON CAMPUS

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 intimation. 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 arrangements for outside the campus, all arrangement for their accommodation will be made but the costs are to be borne by the company.





#### TRAIN TIMINGS CHENNAI - TRICHY

Carrier	Dep.	Arrival	Train No
TIRUCHENDUR EXP	16.05	23.35	16735
RAMESWARAM EXP	17.00	22.25	16713
KANYAKUMARI EXP	17.30	23.00	12633
RAMESWARAM EXP	21.40	05.20	16701
MS MANGALORE EX	22.15	04.50	16107
ROCK FORT EXP	22.30	05.30	16177

#### TRAIN TIMINGS TRICHY - CHENNAI

Carrier	Dep.	Arrival	Train No
NELLAI EXPRESS	00.20	06.40	12632
KANYAKUMARI EXP	00.35	06.50	12634
MAQ CHENNAI EXP	22.00	05.05	16108
ROCKFORT EXPRESS	22.20	05.15	16178
CHENNAI EXPRESS	22.35	06.30	16702
PANDIAN EXP	23.15	05.35	12638

#### TRAIN TIMINGS BENGULURE-TRICHY

Carrier	Dep.	Arrival	Train No
MAILADUTURAI EX	19.05	03.55	16232

#### TRAIN TIMINGS TRICHY - BENGULURE

Carrier	Dep.	Arrival	Train No
MYSORE EXPRESS	20.35	05.05	16231

#### FLIGHT TIMINGS CHENNAI - TRICHY

Days Operating	Departure	Arrival	Carrier	Flight No
S M T W T H F S A	14:05	15:10	Jet Airways Konnect	9W2728
S M T W T H F S A	14:05	15:10	Jet Airways Konnect	9W2728
S F	01:35	02:40	Air India Express	IX 614
M T W T H	11:00	12:05	Air India Express	IX 621
S M W T H F	13:30	14:35	Kingfisher Red	IT 2912
S M W T H F	22:30	23:30	Kingfisher Red	IT 4344
T S A	12:35	13:45	Kingfisher Red	IT 2912
T S A	23:00	23:55	Kingfisher Red	IT 4344

#### FLIGHT TIMINGS TRICHY - CHENNAI

Days Operating	Departure	Arrival	Carrier	Flight No
T H S A	13:15	14:20	Air India Express	IX 613
S M T W T H F S A	22:50	23:55	Air India Express	IX 622
S M T W T H F S A	12:30	13:40	Jet Airways Konnect	9W2727
S M T W T H F S A	19:15	20:15	Jet Airways Konnect	9W2737
S M W T H F	11:45	13:00	Kingfisher Red	IT 2911
S M W T H F	21:10	22:05	Kingfisher Red	IT 4343
T S A	11:00	12:10	Kingfisher Red	IT 2911
T	21:35	22:35	Kingfisher Red	IT 4343
S A	21:10	22:05	Kingfisher Red	IT 4343

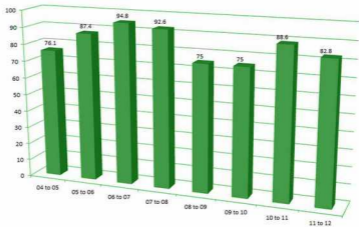
3M INDIA  
 ABB  
 ACC LIMITED  
 ACCOLITE  
 ADOBE  
 ALCATEL-LUCENT  
 AMAZON  
 AMDOCS  
 AMRITA UNIVERSITY  
 ANALOG DEVICES  
 ANAND AUTOMOTIVES  
 ARCHITECTURE RED  
 ARM EMBEDDED  
 ASHOK LEYLAND  
 BAJAJ  
 BAJAJ AUTO  
 BALMER LAWRIE  
 BARCLAYS  
 BEL-CRL  
 BEROE  
 BHARAT BIJLEE  
 BHARTI REALITY  
 BLOOM ENERGY  
 BLUE STAR  
 BOC  
 BOSCH  
 BPCL  
 BROADCOM  
 BUNGE INDIA PVT. LTD.,  
 CA TECHNOLOGIES  
 CAIRN ENERGY  
 CAPILLARY TECH.  
 CAPITAL IQ  
 CARRIER AIRCON  
 CATERPILLAR  
 CCCL  
 C-DOT  
 CHOLAMANDALAM MS  
 CHRONUS  
 CHRYSLER  
 AUTOMOTIVES  
 CISCO  
 CITRIX  
 COAL INDIA LTD.,  
 COMPANY  
 COREEL TECHNOLOGY  
 COROMANDEL  
 CREDIT SUISSE  
 CTS  
 CUMMINS  
 CYPRESS  
 D&H SECHERON  
 DANFOSS  
 DE SHAW  
 DELOITTE  
 DESIGN PRO

DIRECT I  
 DOW CHEMICAL  
 DR.REDDYS  
 ENZEN GLOBAL  
 ERICSSON R&D  
 ESAB  
 EXETER  
 EXIDE  
 FABTECH PROJECTS  
 FACEBOOK  
 FLAKTWOOD  
 FLS MIDTH  
 FMC  
 FOSTER WHEELER  
 FOX SOLUTION  
 FUTURES FIRST  
 GAMMON INDIA  
 GE  
 GE ENERGY  
 GE HEALTHCARE  
 GENPACT  
 GEOMETRIC  
 GLOBAL SCHOLAR  
 GMR  
 GOLCHA MINERALS  
 GOLDMAN SACHS  
 GRAPHIC ERA UNI  
 HAL  
 HANSEN DRIVES LTD.,  
 HARMAN  
 HCL TECHNOLOGIES  
 HERO MOTOCORP LTD.,  
 HNGIL  
 HONDA  
 HPCL  
 HSBC  
 HYUNDAI  
 I NAUTIX  
 IBM GBS  
 IBM ISL  
 IDBI  
 IGATE  
 INDIA BULLS  
 INDIAN BANK  
 INFOSYS  
 INGERSOLL RAND  
 INMOBI  
 INTEL  
 IOCL  
 ITC  
 ITC PPO  
 ITD CEMENTATION  
 ITTIAM  
 ITW INDIA LTD.,  
 IVY COMPTECH  
 IXAR

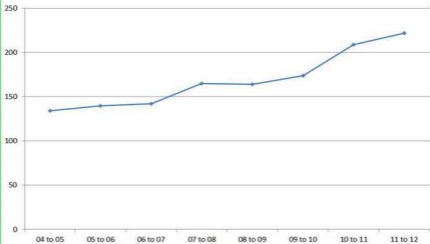
JBF RAK LLC  
 JOHNSON CONTROLS  
 JSW STEEL  
 JUNIPER NETWORKS  
 KALYANI GERDAU  
 KLA TENCOR  
 KPMG  
 L&T ECC  
 L&T POWAI  
 L&T ROMBALL  
 LG SOFT INDIA  
 LINCOLN ELECTRIC  
 LMS  
 LSI  
 MAHINDRA&MAHINDRA  
 MARUTI SUZUKI  
 MCAFEE  
 MCNALL BHARAT ENGG.  
 MICHELIN  
 MICROSOFT  
 MIDHANI  
 MISYS  
 MN DASTUR  
 MORGAN STANLEY  
 MOTT MACDONALD  
 MURUGAPPA  
 MU-SIGMA  
 NETAPP  
 NLC  
 NTPC  
 NVIDIA  
 OPEN SILICON  
 ORACLE  
 ORACLE FINANCIAL  
 PEPSI  
 PETRONET LNG  
 PMC SIERRA  
 POWER GRID  
 PRDC  
 QUALCOMM  
 RANCORE TECH.  
 RED PINE SIGNALS  
 RELIANCE INDUSTRIES  
 RENESAS MOBILE  
 ROTORK  
 SANDISK  
 SANDVIK COROMANT  
 SAP LAPS  
 SAPIENT  
 SCHAEFFLER GROUP  
 SCHNEIDER ELECTRIC  
 SCOPE INTERNATIONAL  
 SHAPOORJI PALLONJI  
 SHRISHTI SOFTWARE  
 SIEMENS  
 SIEMENS R&D

SIEVERT  
 SIMPLEX  
 SKF BEARINGS  
 SMDAD  
 SMDID  
 SOHPA DEVELOPERS  
 SPALGO  
 SRF  
 ST ERICSSON  
 STRATA  
 SUNDARAM FAST.  
 SYNOPSIS  
 TALLY  
 TATA MOTORS  
 TATA POWER  
 TATA STEEL  
 TATA TECHNOLOGIES  
 TATA TINPLATE  
 TAVANT TECHNOLOGIES  
 TCE  
 TCS  
 TELCON  
 TEXAS INSTRUMENTS  
 THERMAX  
 THOROGOOD  
 THOUGHTWORKS  
 THYSSENKRUPP ELE.  
 TIL  
 TITAN INDUSTRIES  
 TOTAL ENVIRONMENT  
 TVS MOTORS  
 UNITEDC BREWERIES  
 URC  
 VEDANTA GROUP  
 VIT  
 VIZ EXPERTS  
 VK BUILDING  
 WALCHAND INDUS.  
 WIPRO STAR  
 Y MEDIA LABS  
 YAHOO  
 YOKOGAWA  
 ZS ASSOCIATES  
 ZYCUS INFOTECH  
 ZYNGA

Overall Placements



Number Of Companies



**FESTEMBER**  
THE CULTURAL FEST

**NITTFEST**  
THE INTER-DEPARTMENTAL FEST

**PRAGYAN**  
THE TECHNICAL FEST

**VORTEX**  
CSE SYMPOSIUM

**PROBE**  
ECE SYMPOSIUM

**CURRENTS**  
EEE SYMPOSIUM

**SYNERGY**  
MECHANICAL SYMPOSIUM

**MOMENTS**  
CIVIL SYMPOSIUM

**ALCHEMY**  
CHEMICAL SYMPOSIUM

**PRODIGY**  
PRODUCTION SYMPOSIUM

**METTLE**  
METALLURGY SYMPOSIUM

**TACHYONS**  
PHYSICS SYMPOSIUM

**BIZZDOM**  
MBA SYMPOSIUM

**VERSION**  
MCA SYMPOSIUM

**HORIZON**  
CHEMISTRY SYMPOSIUM

**SENSORS**  
ICE SYMPOSIUM

THE OTHER SIDE



Address for Communication

**Dr. A. K Bakthavatsalam**

Professor and Head

Department of Training and Placement

National Institute of Technology, Tiruchirappalli - 620 015

Tamil Nadu, INDIA

Phone: +91 - 431 - 2501 081/2503 081 Telefax: 91 - 431 - 2501 081

e-mail: [tp@nitt.edu](mailto:tp@nitt.edu) / [tnp.nitt@gmail.com](mailto:tnp.nitt@gmail.com)