



Confederation of Indian Industry



R&D and Test Facilities at NIT Trichy

Gate Way to Design, Research & Product Development for Industrial needs

NIT, Trichy the erstwhile Regional Engineering College of Trichy has been on a high growth trajectory in terms of research output, revenue from consultancy, academic and administrative reforms. It is ranked the best NIT in the country for the last three consecutive years as per the NIRF and has found a place in the top 1000 Institutes of the world as per the Times Higher Education World ranking 2019. NIT, Trichy offers 10 undergraduate, 28 postgraduate and Ph.D programme. It has more than 90 research labs with sophisticated equipment led by competent faculty team poised for cutting-edge research and consultancy. There are well established centres of excellence which are closely working with Industries on various projects.





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NIT Trichy is witnessing an exponential growth in R&D and consultancy activities in recent times. Apart from a large consultancy work undertaken by our engineering departments, academic research gains its momentum day by day. NIT Trichy has signed MOUs with industries and institutions in and abroad to promote collaborative research and consultancies. MOUs signed with BHEL, NIMS Japan, IBM, HP, Tata Motors etc enable us to network with big market players.

The Siemens CoE in Manufacturing at NIT Trichy envisaged for providing "Skill Excellence" for students, practicing professionals and Industries around its vicinity. This unique Centre could facilitate a multi-disciplinary learning environment across Technology, Engineering, Science and Management. The various learning tracks designed by Siemens and to be certified jointly by Siemens and NIT-T can be practiced out by engineering, polytechnic and ITI students of any Institute for knowledge enrichment and industrial employees for skill upgradation. The Centre shall also offer consultancy and R&D services to Industries at various Labs of the CoE. The CoE has 12 Labs and spread over 20,000 Sq.ft. of building space.

List of Research Labs @ NIT, Trichy

- ▶ ARCHITECTURE
 - CAD Lab
 - Building Science Lab

- ▶ CHEMICAL ENGG
 - Environment Engineering Lab
 - Solar Lab
 - CFD Lab
 - Bio Energy Lab

- ▶ CHEMISTRY
 - Organic and polymer synthesis Lab
 - Fuel cell energy material physical chemistry Lab
 - Bio Electro Chemistry Lab
 - OMCL Lab
 - Nano Material Lab



List of Research Labs @ NIT, Trichy

▶ CIVIL ENGG.

Soil Mechanics Lab
Hydraulic Engineering Lab
Environmental Engineering Lab
Computational Lab
Transportation Engineering Lab

▶ ELECTRONICS & COMMUNICATION ENGG.

Fiber Optical Lab
Signal Processing Lab
Microprocessor & Microcontroller Lab
Wireless Communication Lab
R F MEMS lab

▶ ELECTRICAL & ELECTRONICS ENGG.

Hyper Electrical System Lab
Power System Lab

▶ INSTRUMENTATION AND CONTROL ENGG.

Process Control Lab
Measurement Lab
Transducer Lab
MEMS Lab
Modeling & Simulation Lab
Embedded Systems Lab
Biomedical Engineering Lab

▶ MECHANICAL ENGG

Mechanical Research Lab
Internal Combustion Engine Lab
Biodiesel Pilot Plant Lab
Dynamic Lab
Heat Transfer Lab
Refrigeration and Air Conditioning Lab
Thermal Lab
Metrology Lab
Automobile Lab
MCS Lab
CAD & Simulation Lab
Fluid mechanical Lab
Strength of Materials Lab

▶ METALLURGICAL AND MATERIALS ENGG

Biomaterials Lab
Advanced Material Processing Lab
Metallographic Lab
Metallurgical Lab
Process Modeling Lab
Mechanical Testing Lab
Scanning Electron Microscope Lab
AAS Lab
XRD/STA Lab
Powder Metallurgical Lab

▶ PHYSICS

Advance material Lab
Thin film Lab
Fiber optical sensor Lab
Nano materials Lab
Carbon Nanomaterials Lab
Magnetic Materials Lab

▶ PRODUCTION ENGG

Composite Material Process Lab
Machines shop
Production Process Lab
IMS Laboratory
Mechatronics Lab
Advanced CNC Lab
Trainer CNC Lab
Micro Machining Lab
Computer Integrated Manufacturing Lab
Simulation Lab
Laser Surface Engineering and Tribology Lab

▶ SIEMENS CENTRE OF EXCELLENCE IN MANUFACTURING (Siemens CoE)

CNC Machines/Controller Lab
Robotics Lab
Advanced Manufacturing Lab
Design and Validation Lab
RPT Lab
IoT Lab
Mechatronics Lab
Electrical & Energy Saving Lab
Automation Lab
Process Instrumentation Lab

▶ CENTRE OF EXCELLENCE IN CORROSION AND SURFACE ENGINEERING (CECASE)

Corrosion Engineering Lab
Corrosion Modeling & Simulation Lab
Surface Engineering Lab
Tribology Lab

▶ CENTRE FOR ENERGY & ENVIRONMENTAL SCIENCE AND TECHNOLOGY (CEESAT)

Thermal Lab
Solar Energy Lab
CFD Lab
Bio Energy Lab

▶ CENTRE OF EXCELLENCE IN TRANSPORTATION ENGG

Automation Lab
Test and Optimization Lab
Electrical and Energy Savings Lab
Mechatronics Lab
Process Instrumentation Lab



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▶ Programme Schedule

10.00 AM	Welcome Address by Dean R&C
10.10 AM	Opening Remarks by Chairman, CII Trichy Zone
10.15 AM	Address by Director, NIT, Trichy
10.25 AM	Presentation by Departments
11.00 AM	Tea Break
11.15 AM	Presentation by Departments
12.45 AM	Closing Remarks by Vice Chairman, CII Trichy Zone
12.50 AM	Vote of Thanks
01.00 PM	Lunch
02.00 PM - 05.00 PM	Visit to the facilities

▶ The Venue: EEE Auditorium, NIT Trichy
Date : 04.12.2018
Time : 10.00 AM

▶ For Registrations: Clifford JL | M: 96005 00413 | E: ciitrichyzone@cii.in