Department of Architecture

About the department

Year of Establishment: 1980
Number of Faculty: 16

Courses offered

UG: B.Arch
PG: M.Arch

Ph.D (by research)
Dr. T. SRINIVAS
Professor
Department of Architecture
Email: srivas@nitt.edu

Research Interests:
Evaluation of urban open spaces, Safety in the built environment, Human thermal comfort, Energy efficient and Sustainable built environment

Facilities/Resources available for Industry & Educational consultancy:

Dr. G. SUBBAIYAN
Professor
Department of Architecture
Email: subbaiah@nitt.edu

Research Interests:
Fear of crime and built environment, Architectural lightening, Indoor environmental quality, Energy efficient buildings, City planning

Facilities/Resources available for Industry & Educational consultancy:
**Ar. BELLATRIX VALDARIS**  
**Associate Professor**  
Department of Architecture  
Email: bella@nitt.edu

**Research Interests:**  
History of Architecture, Graphic design, Architectural design

**Facilities/Resources available for Industry & Educational consultancy:**

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**Dr. A. MEENATCHI SUNDARAM**  
**Associate Professor**  
Department of Architecture  
Email: meenatchi@nitt.edu

**Research Interests:**  
Landscape planning & design, Environmental planning & design, GIS spatial analysis, Digital image processing

**Facilities/Resources available for Industry & Educational consultancy:**

Landscape design of open spaces inside and outside of the buildings/campus, Outdoor recreational planning and design, Urban landscape developments and design, Landscape Ecological planning for managing/restoring the natural resources, Landscape planning for restoration of damaged / derelict lands, Ecological planning of all large-scale developments to sustain and protect the environment, Ecological afforestation
**Ar. K. PREMKUMAR**  
Associate Professor  
Department of Architecture  
Email: kprem@nitt.edu

**Research Interests:**  
Architectural Psychology, Architectural Criticism,  
Impact of physical setting on pro social behaviour

**Facilities/Resources available for Industry & Educational consultancy:**

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**Ar. S. RAJENDRABABU**  
Associate Professor  
Department of Architecture  
Email: rajbabu@nitt.edu

**Research Interests:**  
Landscape Architecture

**Facilities/Resources available for Industry & Educational consultancy:**  
Landscape of Compute center Octagon and SJB building
Dr. L. SAIKALA  
Associate Professor  
Department of Architecture  
Email: saikala@nitt.edu  

**Research Interests:**  
Structural analysis, Concrete Technology

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Dr. K. THIRUMARAN  
Associate Professor  
Department of Architecture  
Email: ktm@nitt.edu  

**Research Interests:**  
Energy, Sustainable Architecture, Urban design, Conservation, Cost effective construction techniques, Building services

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Facilities/Resources available for Industry & Educational consultancy:

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Ar. Wilson Frederick  
Associate Professor  
Department of Architecture  
Email: wilson@nitt.edu  

**Research Interests:**  
Structural Dynamics, Probabilistic modelling, Uncertainty quantification, Global Sensitivity Analysis
Dr. P. GOPALAKRISHNAN  
Assistant Professor  
Department of Architecture  
Email: gopal@nitt.edu  

Research Interests:

Facilities/Resources available for Industry & Educational consultancy:

Dr. D. KANNAMMA  
Assistant Professor  
Department of Architecture  
Email: kanama@nitt.edu  

Research Interests:
Urban microclimate, Outdoor thermal comfort, Cultural landscape, Landscape Conservation, Urban landscape architecture, Environmental planning, History of Architecture, Energy efficient landscape design, Remote sensing & GIS

Facilities/Resources available for Industry & Educational consultancy:
Ar. G. SANGEETHA
Assistant Professor
Department of Architecture
Email: gsangs@nitt.edu

Research Interests:
Building of Technology and Construction Management

Ar. AMALAN SIGMUND KAUSHIK
Assistant Professor
Department of Architecture
Email: kaushik@nitt.edu

Research Interests:
LEEP AD (Specialization in building, design and construction), Sustainable architecture, Landscape Architecture

Facilities/Resources available for Industry & Educational consultancy:
Ar. K. PUDHUMA BHARATHI
Assistant Professor
Department of Architecture
Email: pudhuma@nitt.edu

Research Interests:
Environment & Sustainability, Earth Architecture, Heritage & Conservation, Health Care, Sustainable sanitation.

Facilities/Resources available for Industry & Educational consultancy:

Ar. K. BHAGYASRI
Assistant Professor
Department of Architecture
Email: bhagyasri@nitt.edu

Research Interests:
Interior design and Site management, Urban design & planning, Material studies & Contemporary Architecture

Ar. SAURABH KUMAR
Assistant Professor
Department of Architecture
Email: saurabhk@nitt.edu

Research Interests:
Sustainable Architecture
Transportation Planning
Department of Chemical Engineering

About the department

Year of Establishment: **1967**
Number of Faculty: **19**

Courses offered

**UG:** B.Tech (Chemical Engineering)

**PG:**
- M.Tech (Chemical Engg)
- M.Tech (Process Control and Instrumentation) in collaboration with ICE dept

**Ph.D & M.S** (by research)
Dr. T.K. RADHAKRISHNAN
Professor (HAG)
Department of Chemical Engineering
Email: radha@nitt.edu
Mobile: +91-9488451677

**Research Interests:**
Process Modeling and Control
Crystallization
Fuel Cells

**Facilities/Resources available for Industry & Educational consultancy:**
Neutralization Control System
Heat Exchanger Control System
Three Tank Hybrid System
Four Tank System

**Consultancy Expertise:**
In the areas of Modeling and Control

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Dr. P. SIVASHANMMUGAM
Professor (HAG)
Department of Chemical Engineering
Email: psiva@nitt.edu
Mobile: +91-9442115384

**Research Interests:**
Process Engineering Modelling and control,
Thermal Engineering
Biotechnology and Environmental Engineering
Facilities/Resources available for Industry & Educational consultancy:
Aspen plus software, biochemical engineering basic research equipments

Consultancy Expertise: Process Engineering, Modeling and simulation, Thermal Engineering, Biotechnology and Environmental Engineering, Wastewater treatment and Bioenergy.

Dr. J. SARAT CHANDRA BABU
Professor (HAG)
Department of Chemical Engineering
Email: sarat@nitt.edu
Mobile: +91-9486771039

Research Interests:
Bulk Powder Processing
Multi-Phase Flow and Reactions
CFD – ANSYS/ LBM
Advanced Nano-Materials for Catalysis

Facilities/Resources available for Industry & Educational consultancy:

Test Rig – SCADA Interface
Dense-Phase Pneumatic Conveying Characteristics for Design and Analysis
Downer Reactor – Solids Hydrodynamics and High Temperature Processing (up to 900° C)

Analytical Instruments
Particle Size Analyzer, Powder Shear Tester, Hyphenated TGA-GC-MS

Consultancy Expertise:
Process Design & Analysis – Energy Optimization
Powder Processing – Design of Silo/ Cyclone Separator
Environmental Applications
Modular Micro Process Equipment
Process Systems Analysis – Data Analytics and AI
Dr. P. KALAICHELVI
Professor
Department of Chemical Engineering
Email: kalai@nitt.edu
Mobile: +91-9486066990

Research Interests:
Heat transfer
Environmental Engineering
Separation processes
Process safety

Facilities/Resources available for Industry & Educational consultancy:
CVD, Specific heat estimation, Thermal conductivity estimation, Density, Viscosity, Sonicator, Microwave oven, Corrugated plate heat exchanger, Dimpled plate heat exchanger.

Consultancy Expertise:
Water quality analysis and thermos physical properties for various types fluid

Dr. K. M. MEERA SHERIFFA BEGUM
Professor
Department of Chemical Engineering
Email: meera@nitt.edu
Mobile: +91-9600330944

Research Interests:
Functional Materials for Environmental, Biofuels and medical applications (Drug Delivery)

Facilities/Resources available for Industry & Educational consultancy:
Equipment for synthesis of Functional materials

Consultancy Expertise: Development of Novel drug carriers, cost effective functional carbon materials for water treatment, functional catalysts for biofuels. Product characterization testing through analytical facilities
Dr. G. ARTHANAREESWARAN
Professor
Group Leader
Membrane Research Laboratory (MemLab)
Department of Chemical Engineering
Email: arthanareeg@nitt.edu
Mobile: +91-9940361673

Research Interests:
Membrane separation
Nanotechnology
Membrane materials development
Wastewater treatment
Fuel cell, CO2 separation

Facilities/Resources available for Industry & Educational consultancy:
Hollow fibre membrane fabrication unit, Flat sheet membrane fabrication unit,
Nanofiltration test cell, Dead end ultrafiltration stirred cell, Cross flow ultrafiltration,
Gas separation unit, Fuel cell test cell, Merck Spectroquant Prove 600 quote, waster test facilities

Expertise:
We established Membrane Research Laboratory (MemLab) in 2007 in the Department of Chemical Engineering, NIT-Trichy. This laboratory is known as a regional and international recommendation laboratory for advanced membrane technology and applications. The research laboratory is crested to generate new and exciting research projects, to provide a centre for research activities related to membrane-based technology, to build research networks with research universities and industries in India and worldwide.

MemLab represents vehicles for researchers and postgraduate students to undertake multidisciplinary research that are internationally recognized and meeting global standard in the area of membrane technology for water reclamation. All members in MemLab have initiate and lead several joint research projects with local and international universities and industries. The knowledge
and findings from these collaboration research projects have contributed to the research findings that benefit to humankind and environment.

In addition, MemLab members have actively involved in translational research that has a positive impact to the community. This is to ensure that the outcome of the research can be a solution to the national and global issues.

**Consultancy Expertise:**

Company: Galaxy Research Technologies, Tamil Nadu, India, Jain Irrigation Systems Ltd, Maharashtra, India.

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**Dr. M. ARIVAZHAGAN**  
Professor  
Department of Chemical Engineering  
Email: ariva@nitt.edu  
Mobile: +91-9487412478

**Research Interests:**  
Water and wastewater treatment  
Nanotechnology  
Multi-phase flow

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**Facilities/Resources available for Industry & Educational consultancy:**

Characterization of water and wastewater including multi-parameter analysis COD, BOD, turbidity, TSS and TDS  
Analysis of Surface area (BET)  
Heating and drying equipments: Muffle furnaces, Hot air oven, Hot plate, Microwave oven.  
Centrifuge, Ozone generator, shaking incubator, Optical microscope, Potentiometric titrator, Bath Sonicator, Rotary evaporator
Dr. K. MUTHUKUMAR
Professor
Department of Chemical Engineering
Email: kmkumar@nitt.edu
Mobile: +91-9444951977

Research Interests:
Development of methods for the pretreatment of lignocellulosic biomass, energy efficient separation of small molecules, electrochemical/biochemical production of hydrogen, and electrochemical treatment of pollutants.

Consultancy Expertise:
- Bioenergy Production
- Waste to wealth
- Intensified and low cost wastewater treatment
- Development of nanoporous materials for complex mixture separation

Dr. A. ARUNAGIRI
Associate Professor
Department of Chemical Engineering
Email: aagiri@nitt.edu
Mobile: +91-9443808533

Research Interests:
Transfer Operations, Biofuel, Low grade thermal energy conversion

Facilities/Resources available for Industry & Educational consultancy:
Basic facilities, such as Temperature controlled water bath, Sonicator, Incubator etc are available in the transfer operations lab to carry out the preliminary experiments.

Consultancy Expertise: Biofuel and low grade thermal energy conversion.
Dr. M. MATHESWARAN  
Associate Professor  
Department of Chemical Engineering  
Email: matheswaran@nitt.edu  
Mobile: +91-9894524804  

**Research Interests:**  
Wastewater treatment Electrochemical Engineering  
Advance Oxidation Processes  
Electrochemical Oxidation  
Membrane processes  
Desalination  

**Facilities/Resources available for Industry & Educational consultancy:**  
Gas Chromatography  
Electrochemical Workstation  

**Consultancy Expertise:**  
1. Development of nanomaterials for application of energy and environment.  

Dr. M. PERUMALSAMY  
Associate Professor  
Department of Chemical Engineering  
Email: mpsamy@nitt.edu  
Mobile: +91-7010441790  

**Research Interests:**  
Bioseparation Process  
Waste water Treatment and  
Biofuel  

**Facilities/Resources available for Industry & Educational consultancy:**  
High Performance Liquid Chromatography
Dr. K. N. SHEEBA
Associate Professor
Department of Chemical Engineering
Email: sheeba@nitt.edu
Mobile: +91-9952842613

Research Interests:
CO₂ reduction, Photocatalysis
solar energy, biomass pyrolysis
Industrial safety
Wastewater treatment

Facilities/Resources available for Industry & Educational consultancy:
Thermogravimetric Analyser, FTIR, Gas Chromatography, Tubular furnace

Consultancy Expertise:
Drinking water characterization, Gas testing,
Thermal degradation characteristics of solid samples

Dr. S. SARAVANAN
Associate Professor
Department of Chemical Engineering
Email: saravanans@nitt.edu
Mobile: +91-9894140206

Research Interests:
Biochemical Engineering
Process Optimization
Energy & Environmental Engg.

Facilities/Resources available for Industry & Educational consultancy:
Equipments for wastewater treatment, bioprocess engg.
Dr. T. SIVASANKAR  
**Associate Professor**  
Department of Chemical Engineering  
Email: ssankar@nitt.edu  
Mobile: +91-9994203954  

**Research Interests:**  
Sonochemical processes.  
Advanced oxidation technologies.  
Environmental pollution control.  
Nanoparticle synthesis.  
Biofuel synthesis

**Facilities/Resources available for Industry & Educational consultancy:**  
Sonochemical Intensification laboratory:  
Ultrasonic Processor  
Hydrodynamic Cavitation Setup  
High Performance Liquid Chromatography

Dr. N. SAMSUDEEN  
**Assistant Professor**  
Department of Chemical Engineering  
Email: samsudeen@nitt.edu  
Mobile: +91-9894182441  

**Research Interests:**  
Bioelectrochemical system  
Microbial fuel cell technology  
Membrane processes  
Wastewater Desalination

**Facilities/Resources available for Industry & Educational consultancy:**  
Fuel Cell Test Station  
Multiparameter analyzer  
COD Analyzer
Dr. VIRIVINTI NAGAJYOTHI
Assistant Professor
Department of Chemical Engineering
Email: jyothi@nitt.edu
Mobile: +91-9985329988

Research Interests:
Optimization,
Stochastic optimization,
Fuzzy logic,
Process control

Facilities/Resources available for Industry & Educational consultancy:
Process optimization and Process control

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Dr. JYOTI SAHU
Assistant Professor
Department of Chemical Engineering
Email: jyoti@nitt.edu
Mobile: +91-8879439922

Research Interests:
Mathematical Modelling, Electrochemistry,
Thermodynamics of concentrated electrolytes,
Thermodynamics of phase separation, Adsorption phenomenon at liquid-liquid and solid-liquid interface in the presence/absence of electrolytes
Dr. K. SANKAR  
**Assistant Professor**  
Department of Chemical Engineering  
Email: shankark@nitt.edu  
Mobile: +91- 9932077085

**Research Interests:**
Nonlinear Process Control, PEM fuel cell systems, Modeling and simulation of processes, Nonconventional energy systems

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Dr. Kartikeya Shukla  
**Assistant Professor**  
Department of Chemical Engineering  
Email: shukla@nitt.edu  
Mobile:

**Research Interests:**
Green chemistry, Catalysis & Reaction Engineering, Polyester synthesis
About the department

Year of Establishment: 1971
Number of Faculty: 11

Courses offered
PG: M.Sc (Chemistry)
PhD
MS (by research)
Dr. L. CINDRELLA  
Professor HAG  
Department of Chemistry  
Email: cind@nitt.edu  
Mobile: +91-9443765332  

**Research Interests:**  
Solar selective coatings, Fuel cell components  
Conducting polymers, Zeolite based materials  

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Dr. S. ANANDAN  
Professor  
Nanomaterials & Solar Energy Conversion Lab  
Department of Chemistry  
Email: sanand@nitt.edu  
Phone: +91-431 -2503639  
Mobile: +91-9444052074  

**Research Interests:**  

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**Facilities/Resources available for Industry & Educational consultancy:**  
HPLC (Waters, USA)  
QE Measurements (IPCE)  
Quava Mini Reactor (Kaijo, Japan)  
High Frequency Impedance / Electrochemical Analyser with bipotentiostat, ADC 10M, SCAN 250 and Rotating Disc Electrode (Autolab 302 N / FRA2, Netherlands)  
Diode Array Spectrophotometer (Analytikjena, Germany)
UV-Visible Spectrophotometer with diffused reflectance attachment (PG-Instruments T90+, UK), FTIR Spectrophotometer (Thermo), Spectro fluorophotometer (Shimadzu, RF5301PC, Singapore)

Dr. R. KARVEMBU
Professor
Department of Chemistry
Email: kar@nitt.edu
Mobile: 9442268653

Research Interests:
Coordination Chemistry, Organometallics, Catalysis and Bioinorganic Chemistry

Facilities/Resources available for Industry & Educational consultancy:
Gas Chromatograph-Mass Spectrometer (GC-MS)
Gas Chromatograph (GC)
High Performance Liquid Chromatograph (HPLC)
FT-IR Spectrophotometer
UV-Visible Spectrophotometer

Consultancy Expertise:
Synthesis of coordination and organometallic compounds
Catalysis by organometallic compounds and nanomaterials
Development of anticancer organometallic compounds
Identification of compounds by GC-MS
Measurement of enantiomeric excess by chiral HPLC
Identification of functional groups by FT-IR
Dr. S. VELMATHI
Professor
Department of Chemistry
Email: velmathis@nitt.edu
Mobile: +91-9486067404

Research Interests:
Organic Synthesis, Sensors, Heterogeneous catalysis, and Microwave mediated synthesis, Polymer synthesis.

Dr. V.M. BIJU
Associate Professor
Bio and Electroanalytical Chemistry Laboratory
Department of Chemistry
Email: vmbiju@nitt.edu
Mobile: +91-9443843076

Research Interests:
Electrochemical Sensors, Ionic Liquids, Solid Phase Extraction and Luminescence technology

Facilities/Resources available for Industry & Educational consultancy:

- Luminescence Spectrometer
- Atomic Absorption Spectrometer
- UV-visible Spectrophotometer
Dr. A. SREEKANTH
Associate Professor
Department of Chemistry
Email: sreekanth@nitt.edu
Mobile: +91-9443843076

Research Interests:
Coordination Chemistry, Bio-Inorganic Chemistry, Corrosion Engineering, EPR spectroscopy, Crystallography

Dr. Ganesh Chandra Nandi
Assistant Professor
Department of Chemistry
Email: ganeshnandi@gmail.com;nandi@nitt.edu
Mobile: +917034458790

Research Interests:
Metal catalyzed C-C, C-N, C-S coupling reaction
Heterocyclic chemistry
Synthesis of drug (-like) molecules

Facilities/Resources available for Industry & Educational consultancy:
Designing the new routes for bio-active pharmaceuticals and APIs
Dr. SUNANDAN SARKAR  
Assistant Professor  
Department of Chemistry  
Email: ssarkar@nitt.edu  
Mobile: +91-9153484492  

Research Interests:  
Physical Chemistry, Theoretical and Computational Chemistry,  
Electronic Structure of Materials

Facilities/Resources available for Industry & Educational consultancy:  
Opportunity to learn theoretical and computational chemistry methods and techniques (short term)

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Dr. SARTHAK MANDAL  
Assistant Professor  
Department of Chemistry  
Email: smandal@nitt.edu  
Mobile: +91-8158805377  

Research Interests:  
Spectroscopy and Chemical Dynamics

Facilities/Resources available for Industry & Educational consultancy:  
UV-vis Absorption Spectroscopy;  
Steady-state and Time-resolved Fluorescence Spectroscopy
Dr. JOTHI LAKSHMI NALLASIVAM
Assistant Professor
Department of Chemistry
Email: jothi@nitt.edu
Mobile: +91-

Research Area:

Dr. BABY VISWAMBHARAN
Assistant Professor
Department of Chemistry
Email: babyv@nitt.edu
Mobile: +91-8547193736

Research Area:
About the department

Year of Establishment: 1964
Number of Faculty: 26

Courses offered
UG: B.Tech (Civil Engineering)
PG: M.Tech
- Transportation Engineering and Management (1974)
- Structural Engineering (1986)
- Environmental Engineering (2006)
- Construction Technology and Management (2014)
- Geotechnical Engineering (2020)
**Dr. G. SWAMINATHAN**  
*Professor (HAG)*  
Department of Civil Engineering  
Email: gs@nitt.edu

**Research Interests:**  
Wastewater treatment  
Bio-process  
Co-processing in SWM  
Energy storage  
Water distribution networks

**Facilities/Resources available for Industry & Educational consultancy:**  
Water and Waste water quality parameter analysis

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**Dr. P. JAYABALAN**  
*Professor*  
Department of Civil Engineering  
Email: pjeya@nitt.edu  
Mobile: +91-9443173517

**Research Interests:**  
Steel Structures  
Stability Analysis of Structures

**Facilities/Resources available for Industry & Educational consultancy:**  
Structural Engineering

**Consultancy Expertise:**
Dr. S. MOSES SANTHAKUMAR  
Professor (HAG)  
Department of Civil Engineering  
Email: moses@nitt.edu  
Mobile: +91-9842450011  

Research Interests:  
CAD in Transportation Engineering  
Transportation Planning  
Computer Simulation  
GIS & GPS  
Intelligent Transport Systems

Facilities/Resources available for Industry & Educational consultancy:
Transportation Engineering  
Intelligent Transport Systems

Consultancy Expertise:
- Proof-checking of NH234, NH49 Extn, NH226, NH49, NH67 and NH210
- Road Safety Audit of NH47, NH67, NH210 and Madurai Ring Road
- PMGSY Road Projects
- Smart City Projects
- Intelligent Transport Systems
- Coir Geotextiles
- Bituminous Mix Design for the Automotive Test Track works of NATRiP and other
  Highway and Airport Pavements
- Benkelman Beam Deflection studies
- Axle Load Spectrum
- Design of Cement Concrete Pavements for Corporations and Municipalities
- Testing of bitumen, aggregate and soil
Dr. SAMSON MATHEW
Professor
Department of Civil Engineering
Email: sams@nitt.edu
Mobile: +91-9443176759

Research Interests:
Remote sensing and GIS
Pavement management system
Landuse planning

Facilities/Resources available for Industry & Educational consultancy:
Transport Planning
Pavement Design

Dr. K. BASKAR
Professor
Department of Civil Engineering
Email: kbaskar@nitt.edu
Mobile: +91-9790180736

Research Interests:
Steel and RCC Elements
Steel-concrete composite
Finite element Modelling and Analysis

Facilities/Resources available for Industry & Educational consultancy:
Structural Analysis and Design
Design of Industrial structures
Design of RCC structures
FE Modelling and analysis, Dynamic Measurement System
Dr. S. T. RAMESH
Professor
Department of Civil Engineering
Email: stramesh@nitt.edu
Mobile: +91-9444211585

Research Interests:

Facilities/Resources available for Industry & Educational consultancy:
ICP-MS, TOC Analyzer, UV Visible Spectrophotometer, Atomic Absorption Spectrophotometer (graphite furnace), Ion chromatography, Gas Chromatography, Stack monitoring kit, High Volume air sampler, PM10, PM2.5 Analyzer

Consultancy Expertise:
Dr. K. MUTHUKKUMARAN
Professor
Department of Civil Engineering
Email: kmk@nitt.edu
Mobile: +91-9443651836

**Research Interests:**
Soil-Structure Interaction, Pile foundation, Ground Improvement, Marine/Offshore Geotechnical Engg., Soil Dynamics and Earthquake Geotech., Transportation Geotechniques, Environmental Geotechniques, Slope Stability, Field instrumentation and monitoring

**Facilities/Resources available for Industry & Educational consultancy:**
Excellent testing facility for Soils and Rocks (including cyclic triaxial, bender element, consolidation, field resistively, field seismic survey, GPR, inclinometer, dynamic actuator, SPT, CPT, field vane, CBR, Density, swell pressure and etc.)

**Consultancy Expertise:**
Geotechnical Investigations, Analysis and design of shallow &deep foundations, machine foundations, retaining wall, embankments, slopes, reinforced wall. Ground improvement, soil stabilization, offshore foundation etc.
Dr. S. JAYALEKSHMI
Associate Professor
Department of Civil Engineering
Email: jaya@nitt.edu
Mobile: +91-9487575715

Research Interests:
Terramechanics, Geosynthetics Geotechnical Engineering
Slope stability, Laboratory Instrumentation Development, Environmental Geotechnique, Concrete Technology

Facilities/Resources available for Industry & Educational consultancy:
All basic tests

Consultancy Expertise:
Only research projects shall be taken up.

Dr. R. GANDHIMATHI
Associate Professor
Department of Civil Engineering
Email: rgmathii@nitt.edu
Mobile: +91-9443448511

Research Interests:
Water and Wastewater Treatment
(Coagulation, Adsorption using low cost adsorbents, Coagulation coupled with adsorption, Electro Chemical Treatment, Electro Chemical Based Advanced Oxidation Process, Bio Treatment)
Contaminant Transport Modeling(Groundwater modeling, Leachate Transport in groundwater)
Facilities/Resources available for Industry & Educational consultancy:

TOC Analyser , UV Visible Spectrophotometer, Atomic Absorption Spectrophotometer, Ion chromatography , Gas Chromatography, Stack monitoring kit, High Volume Sampler, Particulate matter 10, 2.5 and Inorganic air sampler

Consultancy Expertise:

Water quality assessment, Wastewater analysis and design of wastewater treatment units for specific industries, Ambient air quality monitoring, Municipal solid waste characterization, Stack monitoring and modeling, Assessment of contamination in soil and solid waste samples.

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**Dr. NISHA RADHAKRISHNAN**  
Associate Professor  
Department of Civil Engineering  
Email: nisha@nitt.edu  
Mobile: +91-9843260869

Research Interests:


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Facilities/Resources available for Industry & Educational consultancy:

Advanced Surveying Equipments – Total Station, Digital Level, GPS  
Remote Sensing/GIS  
Surveying – Theodolite, Levelling etc
Dr. J. KARTHIKEYAN  
Associate Professor  
Department of Civil Engineering  
Email: jk@nitt.edu  
Mobile: +91-9487359908

Research Interests:  
Concrete Structures  
Structural Analysis and Design  
High Performance Pre-stressed Concrete Bridges

Facilities/Resources available for Industry & Educational consultancy:

Advanced Material Testing  
Structural Design and Analysis

Dr. V. SUNITHA  
Assistant Professor  
Department of Civil Engineering  
Email: sunitha@nitt.edu  
Mobile: +91-9443302930

Research Interests:  
Pavement Materials, Pavement Analysis and Design, Pavement Management Systems

Facilities/Resources available for Industry & Educational consultancy:

Testing of pavement materials (Soil, Aggregate and Bitumen)  
Mix Design of Granular sub-base and Bituminous Mixes  
Design of bituminous and cement concrete pavements  
Proof checking for Geometric Design of Highways  
Pavement Condition Evaluation - Benkelman Beam Deflection studies, Roughometer, MERLIN, Skid resistance, etc.  
Road Safety Audit
Dr. R. MANJULA  
**Assistant Professor**  
Department of Civil Engineering  
Email: manju@nitt.edu  
Mobile: +91-9942305458

**Research Interests:**  
Water quality modelling,  
Water balance modelling,  
Wave structure interaction

**Facilities/Resources available for Industry & Educational consultancy:**

- Resistivity meter 2D –resistivity imaging and survey  
- Optimisation of water supply distribution network using WATER GEMS and SEWER GEMS software  
- Dam break studies using software  
- Design of hydraulic structures  
- Wave flume for wave structure interaction studies

Dr. DEENAYAL RATHOD  
**Assistant Professor**  
Department of Civil Engineering  
Email:  
deendayal@nitt.edu, deendayalrathod123@gmail.com  
Mobile: +91-959-777-1912

**Research Interests:**  
Soil Structure Interaction  
Pile Foundations  
Geotechnical Earthquake Engineering  
Offshore Geotechnical Engineering  
Ground Improvement Techniques

**Facilities/Resources available for Industry & Educational consultancy:**

Pile Testing, SPT tests, Plate Load tests etc.
Consultancy Expertise:
Site Investigations, Soil Testing, Foundation Design, Building Planning

Dr. S. SARAVANAN
Assistant Professor
Department of Civil Engineering
Email: ssaravanan@nitt.edu
Mobile: +91-9489104248

Research Interests:
Remote sensing & GIS applications, Groundwater assessment and management, Water resource management, Environmental Engineering

Mrs. R. ARACHELVI
Assistant Professor
Department of Civil Engineering
Email: arachelvi@nitt.edu
Mobile: +91-9150005044

Research Interests:
Advanced Construction Technology
Study of Rheological properties and strength studies on coir fibre reinforced cement mortar.

Facilities/Resources available for Industry & Educational consultancy:
Basic Material Testing
Dr. R. SENTHILKUMAR  
**Assistant Professor**  
Department of Civil Engineering  
Email: senthilr@nitt.edu  
Mobile: +91-9566111484  

**Research Interests:**  
Steel and Steel-Concrete Composite Structures  
Earthquake Resistant Design  
Fire Resistance  
Material Characterisation (Concrete)  

**Facilities/Resources available for Industry & Educational consultancy:**  
Testing of beams and columns (Steel, Concrete and Composite  
Proof Check – Analysis & Design of Steel, Steel-Concrete Composite and RC Structures  

**Facilities:**  
Universal testing machine, 5 TON capacity actuator, Loading frame and Ansys, ABAQUS softwares

Dr. S. MARISAMYNATHAN  
**Assistant Professor**  
Department of Civil Engineering  
Email: marisamy@nitt.edu  
Mobile: +91-9820481495  

**Research Interests:**  
Road Safety and Accident Analysis  
Traffic Operation and Simulation  
Transportation Systems and Logistics (Freight)  
Driver, Pedestrian and Bicyclist Behaviour Study  

**Facilities/Resources available for Industry & Educational consultancy:**  
Road safety audit team  
Tools to evaluate accident and safety
Traffic Software's - VISSIM, VISWALK
Transportation Planning Software's - CUBE, CUBE CARGO, NLOGIT
Design Software's/Tools – MXROAD, AutoCAD, ARCGIS, QGIS, GPSS, Total Station, Digital Levels

Dr. JEEVAN JOSEPH
Assistant Professor
Department of Civil Engineering
Email: Jeevan@nitt.edu
Mobile: +91-9619474630

Research Interests:
Environmental Geotechnics
Unsaturated Soil Mechanics
Geothermal Energy
Frozen Soil Behaviour
Geotechnical Instrumentation

Facilities/Resources available for Industry & Educational consultancy:

Geo material Characterization:
Physical, chemical, mineralogical and morphological

Site Investigation:
SPT, CPT and DCPT

Foundation Design:
Shallow and deep
Dr. R. RAGHAVAN
Assistant Professor
Department of Civil Engineering
Email: raghavanr@nitt.edu
Mobile: +91-9940449658

Research Interests:
Steel domes
Cold-formed steel
General steel structures

Facilities/Resources available for Industry & Educational consultancy:
Steel structural products testing
Steel and general buildings design
Transmission line towers

Dr. M. PRABHA
Assistant Professor
Department of Civil Engineering
Email: prabham@nitt.edu

Research Interests:
Structural performance of pressed concrete systems,
Mechanical characteristics of construction materials,
Effect of corrosion on structural performance of reinforced concrete structures.
Dr. U. Mashudha Sulthana  
Assistant Professor  
Department of Civil Engineering  
Email: smas@nitt.edu  

Research Interests:  
Computational Modelling, Structural health monitoring, Steel Structural systems, Steel-concrete composite structures

Dr. O. Darshana  
Assistant Professor  
Department of Civil Engineering  
Email: darshana@nitt.edu  

Research Interests:  
Modelling user perception, traffic operations, traffic engineering & management and road safety

Dr. Greegar George  
Assistant Professor  
Department of Civil Engineering  
Email: greegar@nitt.edu  

Research Interests:  
Structural Dynamics, Probabilistic modelling, Uncertainty quantification, Global Sensitivity Analysis
Dr. Aneesh Mathew
Assistant Professor
Department of Civil Engineering
Email: aneesh@nitt.edu

Research Interests:
Water resources engineering, Image processing, Digital elevation models, Remote sensing & GIS in water resources and climate change, Modelling for urban planning applications

Dr. Kamal Krishna Bera
Assistant Professor
Department of Civil Engineering
Email: kamal@nitt.edu

Research Interests:
Structural dynamics, Wind and Earthquake engineering, Structural vibration control, Aerodynamics of cable supported bridges
Department of Computer Science and Engineering

About the department

Year of Establishment: 1983
Number of Faculty: 21

Courses offered

UG: B.Tech (CSE)
PG: M.Tech (CSE)
Ph.D & M.S (by research)
Dr. S. SELVAKUMAR  
Professor HAG 
Department of Computer Science and Engineering 
Email: ssk@nitt.edu 
Mobile: +91-9443835520 

Research Interests: 
Group Communication, Networking, Network Security, 
High Speed Networks, Distributed Computing, 
Wireless Sensor Networks, Social Networks Security 

Facilities/Resources available for Industry & Educational consultancy: 

Collaborative Directed Basic Research in Smart and Secure Environment (CDBR-SSE) Lab 

**HP workstation**  
- Intel i7-Processor  
- 16 GB RAM  
- 1 TB SATA HDD  
- GPU with 2 GB 

Consultancy Expertise:  
- Wide Area Campus Network Design  
- Local Area Network Design  
- Network Security
Dr. K. Viswanathan Iyer
Professor
Department of Computer Science and Engineering
Email: kvi@nitt.edu

Research Area:
 Algorithms
 Data Structures
 Data bases
 Graph Theory

Dr. N. RAMASUBRAMANIAN
Professor
Department of Computer Science & Engineering
Email: nrs@nitt.edu

Research Interests:
 Multicore Computer Architecture, IoT Architectures,
 Advanced Digital Designs, Processor Design, GPU
 Computing, Hardware for security systems

Dr. C. MALA
Professor
Department of Computer Science & Engineering
Email: mala@nitt.edu

Research Interests:
 Internet of Things, Wireless Sensor Networks,
 Machine learning, Deep learning, Network Security,
 Web Services, Image Processing, High Performance
 computing
Dr. S. MARY SAIRA BHANU
Professor
Department of Computer Science and Engineering
Email: msb@nitt.edu
Mobile: +91-9442970006

Research Interests:

Facilities/Resources available for Industry & Educational consultancy:
Cloud Resource Management
Principles of Internetworking

Consultancy Expertise:
Curriculum Design, Data management and Cloud security
Data Management
Cloud Security

Dr. R. LEELAVELUSAMY
Professor
Department of Computer Science and Engineering
Email: leela@nitt.edu
Mobile: +91-

Research Interests:
Automata and Formal Languages
Fault Tolerant Computing
Cryptography and Network security
Internet of Things, Digital Forensics

Facilities/Resources available for Industry & Educational consultancy:
Wireless networks, Network Security, IoT, Digital Forensics
Dr. RAJESWARI SRIDHAR  
Associate Professor  
Department of Computer Science and Engineering  
Email: srajeswari@nitt.edu  
Mobile: +91-  
Research Interests:  
NLP, Machine Learning  
Cloud Computing  
Big Data  
Recommender Systems

Dr. R. MOHAN  
Assistant Professor  
Department of Computer Science and Engineering  
Email: rmohan@nitt.edu  
Mobile: +91-  
Research Interests:  
Software Engineering  
Operating Systems, Distributed Systems  
Data Structures & Algorithms

Dr. S. JAYA NIRMALA  
Assistant Professor  
Department of Computer Science and Engineering  
Email: sjaya@nitt.edu  
Research Interests:  
Computer Architecture  
Microprocessor Systems  
Operating System and Cloud Computing
Dr. KUNWAR SINGH
Assistant Professor
Department of Computer Science and Engineering
Email: kunwar@nitt.edu
Mobile: +91-

Research Interests:
Cryptology, Algorithms
Data Structures
Graph Theory

Dr. E. SIVASANKAR
Assistant Professor
Department of Computer Science and Engineering
Email: sivasankar@nitt.edu

Research Interests:
Data Warehousing & Data Mining
Web Technology
Database Management Systems
Big Data Analytics

Dr. B. NITHYA
Assistant Professor
Department of Computer Science and Engineering
Email: nithya@nitt.edu
Mobile: +91-

Research Interests:
Digital System Design
Data Structures
Wireless Networks
Dr. SHAMEEDHA BEGUM  
Assistant Professor  
Department of Computer Science and Engineering  
Email: shameedha@nitt.edu  
Mobile: +91-  

**Research Interests:**  
Computer System & Architecture, Embedded Systems, Micro processor real time systems

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Dr. A. SANTHANA VIJAYAN  
Assistant Professor  
Department of Computer Science and Engineering  
Email: vijayan@nitt.edu  
Mobile: +91-  

**Research Interests:**  
Semantic web, Web mining, Machine Learning, Ontology Engineering, Web Intelligence, Natural Language processing, Deep Learning, Artificial Intelligene
Dr. M. SRIDEVI
Assistant Professor
Department of Computer Science and Engineering
Email: msridevi@nitt.edu
Mobile: +91- 98940123610

Research Interests:
Image Processing
Computer Graphics
Parallel Processing
Machine and Deep learning

Consultancy Expertise:

- In the field of Computer vision applications
- Design and development of parallel algorithms
- Social media analysis
- Traditional and modern Artificial Intelligence (AI) techniques

Dr. M. BRINDHA
Assistant Professor
Department of Computer Science and Engineering
Email: brindham@nitt.edu
Mobile: +91-

Research Interests:
Database Management Systems
Digital Computer Fundamentals
Image Security

Facilities/Resources available for Industry & Educational consultancy:
Databases, image security, data processing
Image Encryption Lab
Dr. K. SITARA  
Assistant Professor  
Department of Computer Science and Engineering  
Email: sitara@nitt.edu  

**Research Interests:**  
Cyber Forensics, Video Surveillance, Multimedia Forensics

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Dr. R. BALAKRISHNAN  
Assistant Professor  
Department of Computer Science and Engineering  
Email: balakrishnan@nitt.edu  

**Research Interests:**  
Text steganography, Information security, Network protocols, Android applications, Machine Learning

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Dr. SAI KRISHNA MOTHKU  
Assistant Professor  
Department of Computer Science and Engineering  
Email: saikrishna@nitt.edu  

**Research Interests:**  
Wireless ad-hoc networks, Wireless sensor networks, Internet of Things
Dr. KAMALIKA BHATTACHARJEE  
**Assistant Professor**  
Department of Computer Science and Engineering  
Email: kamalika@nitt.edu  

**Research Interests:**  
Cellular Automata and Randomness, algorithmic complexity theory

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Dr. CHANDRAMANI CHAUDHARY  
**Assistant Professor**  
Department of Computer Science and Engineering  
Email: chandramani@nitt.edu  
Mobile: +91-9462101856  

**Research Interests:**  
Multimedia Retrieval, Data Mining, Machine Learning, Information Retrieval, Big Data Analytics, Image retrieval and understanding
**Department of Computer Applications**

**About the department**

Year of Establishment: **1983**  
Number of Faculty: **14**

**Courses offered**

**PG:** MCA, M.Sc(Comp.Sci), M.Tech (Data Analytics)
Dr. S. R. BALASUNDARAM
Professor
Department of Computer Applications
Email: blsundar@nitt.edu
Mobile: +91-9994291420

Research Interests:
Data Management
Big Data – Placement Strategies
Mobile – Services/Security
Summarization

Facilities/Resources available for Industry & Educational consultancy:

- e-Learning and HCI Lab.
- Data Management (Big Data, Mobile)
- Document Summarization

Consultancy Expertise:

- Data Management
- Big Data Analytics
- Language Processing
- E-Learning/Content Development and Management

Dr. P.J.A. ALPHONSE
Professor
Department of Computer Applications
Email: alphonse@nitt.edu
Mobile: +91-9942402999

Research & Consultancy Interests:
Graph Theory and its Algorithms
Wireless and Ad hoc Networks
Cryptography and Network Security
Dr. S. NICKOLAS  
Professor  
Department of Computer Applications  
Email: nickolas@nitt.edu; nickolasnitt@gmail.com  
Mobile: +91-9443561989  

**Research Interests:**  
Data Mining,  
Big Data Analytics,  
Machine Learning Techniques  

**Facilities/Resources available for Industry & Educational consultancy:**  
High Performance Computing Lab  
Machine Learning Techniques  
Knowledge Discovery From Data Bases  
Preprocessing the Data Sets  

**Consultancy Expertise:**  
Curriculum Design  
Data Base Design and System Development  
Data Mining, Data Analytics  

Dr. MICHAEL AROCK  
Professor  
Department of Computer Applications  
Email: michael.arock@gmail.com  
Mobile: +91-9842378952  

**Research Interests:**  
Parallel Algorithmics  
Bio-informatics  
Nature-inspired Computing+------60  

**Facilities/Resources available for Industry & Educational consultancy:**  
Parallel and Bioinformatics lab is there in the Dept.  

**Consultancy Expertise:** Machine and Deep Learning Algorithms can be developed for the problems in question and implemented.
Dr. S. DOMNIC
Associate Professor
Department of Computer Applications
Email: domnic@nitt.edu
Mobile: +91-9994904763

Research Interests:
Image & Video Analysis, Data Compression, Deep Learning, Cloud Optimization

Facilities/Resources available for Industry & Educational consultancy:
Industrial Radiography Image and Video Analysis, IoT based data analytics and IoT based Image&Video analytics, Face Recognition based Indoor and Outdoor Applications,

Computing facilities:
Image &Video Analysis Lab
AI Lab
High End workstations with GPU, High End Servers, High End Desktops
Supercomputer for AI (DGX-1 Server)

Consultancy Expertise:
Face Recognition based Indoor and Outdoor Applications, Surveillance Camera solutions, Data Analytics, OCR from Office documents.
Dr. G. R. GANGADHARAN
Associate Professor
Department of Computer Applications
Email: ganga@nitt.edu
Mobile: +91-7799833300

Research Interests:
Cloud Computing
Data Center Management
Big Data Analytics

Facilities/Resources available for Industry & Educational consultancy:
Data Center Management
Big Data Analytics
Cloud Computing
Management Information Systems

Dr. B. JANET
Assistant Professor
Department of Computer Applications
Email: janet@nitt.edu
Mobile: +91-9442648096

Research Interest:
Information Processing and Security

Facilities/Resources available for Industry & Educational consultancy:
Data Clustering and Analytics models
Indexing, Search and Retrieval algorithms
Security and Threat Analysis
Intelligent Application Development
IOT Application Development
Usage of Open source software
Consultancy Expertise:
Deep Learning model development
Intelligence generation
Security assessment and audit
Data Management and Security
Edge Analytics

Dr. S. SANGEETHA
Assistant Professor
Department of Computer Applications
Email: sangeetha@nitt.edu
Mobile: +91-9442601978

Research Interests:
Information Extraction
Natural Language Processing

Facilities/Resources available for Industry & Educational consultancy:
Information Extraction from Text Documents

Dr. R. ESWARI
Assistant Professor
Department of Computer Applications
Email: eswari@nitt.edu
Mobile: +91-9486319693

Research Interests:
Optimization Techniques, multi-objective optimization, soft computing techniques, cloud computing, wireless sensor networks

Facilities/Resources available for Industry & Educational consultancy:
Software development in the field of computational intelligence
Dr. U. SRINIVASULU REDDY
Assistant Professor
Department of Computer Applications
Email: usreddy@nitt.edu
Mobile: +91-8438207784

Research Interests:
Artificial intelligence
Machine Learning and Deep Learning Techniques
Big Data Analytics; Bio-informatics

Dr. JITENDRA KUMAR
Assistant Professor
Department of Computer Applications
Email: jitendra@nitt.edu

Research Interests:
Cloud computing, Predictive analysis, Computational Intelligence, Multi-Objective Optimization

Dr. GHANSHYAM S. BOPCHE
Assistant Professor
Department of Computer Applications
Email: bopche@nitt.edu

Research Interests:
Cyber defence, Vulnerability Assessment & Penetration Testing, Insider Threats and Digital Forensics
Dr. B. BALAJI  
Assistant Professor  
Department of Computer Applications  
Email: balaji@nitt.edu

**Research Interests:**  
Image Processing, Mathematical Imaging, Soft Computing and Deep Learning

Dr. K. SELVAKUMAR  
Assistant Professor  
Department of Computer Applications  
Email: kselvakumar@nitt.edu

**Research Interests:**  
Artificial intelligence  
Machine Learning and Deep Learning Techniques, Wireless sensor networks, IoT, Web mining, NLP and user personalization
Department of Electronics and Communication Engineering

About the department

Year of Establishment: **1968**
Number of Faculty : **23**

Courses offered

**UG:** B.Tech (ECE)

**PG:**

**M.Tech** (Communication System & VLSI system)

Ph.D & M.S (by research)
Dr. B. VENKATARAMANI
Professor (HAG)
Department of Electronics and Communication Engineering
Email: raghavan@nitt.edu
Mobile: +91-9443130663

Research Interests:
Computer networks, signal processing

Dr. G. LAKSHMINARAYANAN
Professor
Department of Electronics and Communication Engineering
Email: laksh@nitt.edu
Mobile: +91-9442940144

Research Interests:
Digital VLSI Design

Facilities/Resources available for Industry & Educational consultancy:

- Spectrum Analyzer-9KHz to 7.5GHz
- WARP V3 Kit, Logic Analyzer
- Virtex 7 FPGA, Virtex II Pro Kit
- Basys 3 Board, Zybo Board
- Xilinx Kintex-7 FPGA Kit, Xilinx Virtex-5 Board, Xilinx Zync FPGA Board
- USRP N210, FPGA DSP Kit, NET FPGA
Dr. P. MUTHUCHIDAMBARANATHAN
Professor
Department of Electronics and Communication Engineering
Email: muthuc@nitt.edu
Mobile: +91-9442572510

**Research Interests:**
- Wireless Communication
- Optical Communication.

**Facilities/Resources available for Industry & Educational consultancy:**

Wireless System Design Lab - Research Lab on Wireless System Design aims at wide range of theoretical research, algorithm development, system architectures and testing facilities to meet the industry standards of present and future wireless technologies. The laboratory includes facilities for the real time testing of experimental prototypes as well as computing resources for system design and analysis.

Dr. M. BHASKAR
Professor
Department of Electronics and Communication Engineering
Email: bhaskar@nitt.edu
Mobile: +91-9443314616

**Research Interests:**
- RF VLSI circuit design
- On-chip/off-chip antenna design
- Biomedical signal processing applications
- Embedded VLSI design

**Facilities/Resources available for Industry & Educational consultancy:**

Design, fabrication and testing of low power RF VLSI circuits for short range applications.
Design and fabrication of on-chip/off-chip miniaturized antennas for RF applications.
Development and implementation of Bio-medical signal processing algorithms.
Design and implementation of biomedical processing blocks in FPGA

Dr. D. SRIRAM KUMAR
Professor
Department of Electronics and Communication Engineering
Email: srk@nitt.edu
Mobile: +91-9443494495

Research Interests:
Microwave integrated circuits
Optical networks
Smart antennas
Carbon nanotube antennas
Free space optics
Optical & Reconfigurable antennas
Flexible electronics
Photonics

Facilities/Resources available for Industry & Educational consultancy:

• Microwave and MIC Laboratory
• Internet of Things’ (IoT) Innovation Centre
Dr. P. PALANISAMY
Professor
Department of Electronics and Communication Engineering
Email: palan@nitt.edu
Mobile: +91-9486001111

Research Interests:
Signal Processing
Biomedical Image Processing
Communication Systems

Facilities/Resources available for Industry & Educational consultancy:
Design and implementation of biomedical processing blocks in FPGA
Technology Development for Computer Aided Diagnosis
Real-time audio signal processing
Microphone array signal processing

Dr. B. MALARKODI
Associate Professor
Department of Electronics and Communication Engineering
Email: malark@nitt.edu
Mobile: +91-9894768765

Research Interests:
Wireless Communication Networks

Facilities/Resources available for Industry & Educational consultancy:
Network Simulator is an open-source event-driven simulator designed specifically research in computer network such as routing, transport, application etc.
Classroom training can be offered on simulation projects in the network simulator on wireless sensor network(WSN), VANET, and Mobile adhoc networks.
Dr. E.S. GOPI
Associate Professor
Department of Electronics and Communication Engineering
Email: esgopi@nitt.edu
Mobile: +91-9500423313

Research Interests:
Pattern recognition
Statistical digital signal processing
Data analytics
Computational Intelligence

Facilities/Resources available for Industry & Educational consultancy:
Workstations with the relevant softwares

Consultancy Expertise:
Formulation of the computational intelligence based techniques (Algorithms) to solve Multi-disciplinary Engineering problems.

Dr. R. PANDEESWARI
Associate Professor
Department of Electronics and Communication Engineering
Email: rpands@nitt.edu
Research Interests:
Microwave
Antennas
Metamaterial

Dr. R. K. JEYACHITRA
Associate Professor
Department of Electronics and Communication Engineering
Email: jeyachitra@nitt.edu
Mobile: +91-9443145540

Research Interests:
Microwave/ Millimeter-wave photonics
Optical Wireless Communication
Optical Communication
Information and Communication System

Facilities/Resources available for Industry & Educational consultancy:
Fiber Optic Communication lab has Newport and Benchmark Fiber Optic Kits, Fiber Optic Light Runner, OPPTSIM and Photonics CAD Simulation software, Digital Communication Trainer Kits.

Consultancy Expertise:
• Develop the coherent optical communication system for validating the research solutions
• Design the experimental prototype of the optical wireless communication system
• Design and analyze the photonics components and photonics integrated circuits through CAD-based design software

**Dr. G. THAVASI RAJA**  
*Assistant Professor*  
Department of Electronics and Communication Engineering  
Email: thavasi@nitt.edu  
Mobile: +91-9443485798

**Research Interests:**  
Fiber optics (Speciality fibers)  
Photonics Communication

**Facilities/Resources available for Industry & Educational consultancy:**

**CAD tools:**

- Comsol - Modelling of Speciality Fiber based devices & Photonic crystal-based devices
- Lumerical FDTD – Numerical design and analysis of high-speed optical waveguide devices
- RsoftOptsim, FullWAVE & Beam PROB – Optical system design, Numerical modelling of Fiber optic sensors and high-speed optical waveguides
Dr. B. REBEKKA  
**Assistant Professor**  
Department of Electronics and Communication Engineering  
Email: rebekka@nitt.edu  
Mobile: +91-9894478823  

**Research Interests:**  
Wireless communication  
Wireless networks  

**Facilities/Resources available for Industry & Educational consultancy:**  
Working on QoS enhancements in 5G networks  

Mrs. R. THILAGAVATHY  
**Assistant Professor**  
Department of Electronics and Communication Engineering  
Email: thilagavathy@nitt.edu  
Mobile: +91-9442614616  

**Research Interests:**  
Embedded Systems  
VLSI System design  
Bio-Medical Applications  
IOT

**Facilities/Resources available for Industry & Educational consultancy:**  
Microprocessor and Microcontroller Lab.  
- Intel 8051, Motorola Microcontrollers, MSP430 mixed signal Microcontrollers, ARM Processors like trainer Kits, Keil, Proteus Virtual Modelling software VSM like s/ws.  
- Data acquisition cards, DSO, Arbitrary FG, Power Supply, Soldering and Desoldering stations, Multi meters, GSM module, Wi Fi kit, Bluetooth module, GPS kit and all types of sensors are available for mini project.
Dr. V. SUDHA
**Assistant Professor**
Department of Electronics and Communication Engineering
Email: vsudha@nitt.edu
Mobile: +91-9443608785

**Research Interests:**
Wireless Sensor Networks
Wireless Communication

**Facilities/Resources available for Industry & Educational consultancy:**

Design and Development of protocols and algorithms for wireless sensor based systems using the following simulators

- Network Simulators (NS2 & NS3)
- Matlab.

**Consultancy Expertise:**

Designing of next generation wireless communication systems using the following simulators: (if supported by sponsors)

- Qualnet
- Rivernet Modeler (Formerly called OPNET Modeler)
- Remcom- Wireless Insite.

Dr. N. GUNAVATHI
**Assistant Professor**
Department of Electronics and Communication Engineering
Email: gunavathi@nitt.edu
Mobile: +91-9489536873

**Research Interests:**
Design and analysis of planar antennas
Facilities/Resources available for Industry & Educational consultancy:
Design of planar antennas based on the requirements

Mrs. R.K. KAVITHA
Assistant Professor
Department of Electronics and Communication Engineering
Email: rkkavitha@nitt.edu
Mobile: +91-9944260866

Research Interests:
Low power VLSI system Design
Asynchronous Pipelining Techniques

Facilities/Resources available for Industry & Educational consultancy:
Design of systems/components/processes

Dr. S. DEIVALAKSHMI
Assistant Professor
Department of Electronics and Communication Engineering
Email: deiva@nitt.edu

Research Interests:
Signal and Image processing
Dr. S. S. KARTHIKEYAN
Assistant Professor
Department of Electronics and Communication Engineering
Email: sskarthikeyan@nitt.edu
Mobile: +91-8903859762

**Research Interests:**
- RF Circuit Design (Active & Passive)
- Antenna Design
- Application of Microwave for non-destructive testing

**Facilities/Resources available for Industry & Educational consultancy:**
- Design and development of RF Circuit and RF front end design
- Design and development of antennas for various applications such as automotive, IoT, Wireless Sensor networks and wearable devices
- Product design with EMC compliance

Dr. VARUN GOPI
Assistant Professor
Department of ECE
Email: varun@nitt.edu

**Research Interests:**
- IoT in healthcare, Signal processing, Medical image processing, Artificial Intelligence, Compressed sensing, Circuits & Systems
Dr. P. SUDHARSAN
Assistant Professor
Department of ECE
Email: sudharsan@nitt.edu
Mobile: +91- 9486199640

Research Interests:
Machine Learning for wireless communication, Analysis of heterogeneous wireless networks using Stochastic geometry, Image processing, MIMO systems

Dr. HEMANT KUMAR
Assistant Professor
Department of ECE
Email: hemant@nitt.edu

Research Interests:
Antennas, Microwave passive circuits, Radar, Microwave/Millimetre-wave imaging
Dr. P. MAHESWARAN
Assistant Professor
Department of ECE
Email: mahes@nitt.edu
Mobile: +91- 9884111807

Research Interests:
Wireless Communication
Signal Processing
Cooperative Communication
MIMO Communication System
Index Modulation
Spatial Modulation
Department of Electrical and Electronics Engineering

About the department

Year of Establishment: **1964**
Number of Faculty : **27**

Courses offered

**UG:** B.Tech(EEE)

**PG:**

**M.Tech** (Power Systems & Power Electronics)

**Ph.D & M.S (by research)**
Dr. K. SUNDARESWARAN  
**Professor HAG**  
Department of Electrical and Electronics Engineering  
Email: kse@nitt.edu  
Mobile: +91-9443766518

**Research Interests:**  
Power electronics  
Optimization techniques  
Fuzzy logic

**Facilities/Resources available for Industry & Educational consultancy:**  
Application of Optimization to electrical power

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Dr. C. NAGAMANI  
**Professor HAG**  
Department of Electrical and Electronics Engineering  
Email: cnmani@nitt.edu  
Mobile: +91-9487280657

**Research Interests:**  
Power controllers for industrial drives  
power systems and renewable energy applications

**Facilities/Resources available for Industry & Educational consultancy:**  
Unified Power Flow Controller (UPFC) for enhanced utilization and control of the existing power transmission system”  
Development of DC – DC converter and Bi-directional converter for SPV applications by NIT, Trichy.  
Development of Renewable Energy laboratory-Investigation & study of different PV configurations suitable for Indian Environmental Conditions.  
Dynamic loading of motors for open cast mines
Dr. S. ARUL DANIEL  
Professor(HAG)  
Department of Electrical and Electronics Engineering  
Email: daniel@nitt.edu, saruldanial@gmail.com  
Mobile: +91-9003302400  

**Research Interests:**
Renewable Energy  
Autonomous power plants  
Nano-grids

**Facilities/Resources available for Industry & Educational consultancy:**
DC nano-grid is available.  
Development of renewable energy systems using PV array and wind generators

**Consultancy Expertise:**
Installed a PV plant on the runway of Tiruchirappalli Airport

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Dr. N. KUMARESAN  
Professor  
Department of Electrical and Electronics Engineering  
Email: nkumar@nitt.edu  
Mobile: +91-9489089101

**Research Interests:**
Design, analysis and application of Electrical machines and Power Electronic Controllers for Renewable energy systems

**Facilities/Resources available for Industry & Educational consultancy:**
- Solar PV system, Motor-generator sets  
- Power quality analyser, High resolution DSOs, multi-meters  
- IGBT based inverters and other related power circuits  
- Digital controllers – FPGA & Microcontrollers  
- MATLAB / Proteus VSM / PSIM software packages
**Consultancy Expertise:**

Consultancy Service can be provided in the area of Energy conservation / auditing, motor / generator characteristic studies and integration of renewable energy systems.

**Dr. S. SUDHA**  
**Professor**  
Department of Electrical and Electronics Engineering  
Email: sudha@nitt.edu  
Mobile: +91-9486001122

**Research Interests:**
- Web services
- Information extraction
- Computer Networks
- Wireless Sensor networks
- Internet of things

**Facilities/Resources available for Industry & Educational consultancy:**

Sensor nodes, RF modules, Arduino, Micro-controllers, GSM and GPS modules, High end workstations, SensNUTs modules  
IoT based applications, Sensor network based applications and Information extraction
Dr. M. JAYA BHARATA REDDY
Professor
Department of Electrical and Electronics Engineering
Email: jbreddy@nitt.edu
Mobile: +91-9443171746

Research Interests:
Smart grid, substation Automation, wide-area protection, digital relaying, soft computing applications in power system, power quality analysis and power system protection

Facilities/Resources available for Industry & Educational consultancy:
110V, 3 phase EHV Transmission Line Model,
LPro-4000 ERL Numerical Distance Protection Relay,
20V, 3 phase EHV Transmission Line Model,
NI Compact RIO Data Acquisition system ADC (V & I) DAC & GPS receiver,
Current Probe,
Testing of new protection algorithms (in both time and Frequency domain) using NI Compact RIO and DAQ

Dr. V. SANKARANARAYANA
Professor
Department of Electrical and Electronics Engineering
Email: vsankar@nitt.edu

Research Interests:
Nonlinear control, Control of underactuated systems, Sliding motor control, Constrained Stabilization
Dr. M. P. SELVAN
Associate Professor
Department of Electrical and Electronics Engineering
Email: selvanmp@nitt.edu
Mobile: +91-9444170638

Research Interests:
Residential Demand Response,
Smart Metering,
Micro-grid,
Transactive Energy Market
Distribution System Analysis

Facilities/Resources available for Industry & Educational consultancy:
Power System Tools – Power Factory, ETAP & PSCAD

Consultancy Expertise:
Design of LT and HT systems.
Power Flow Studies.
Energy Auditing.
Smart metering applications.
IoT based solutions to smart cities.

Dr. SISHAJ P. SIMON
Associate Professor
Department of Electrical and Electronics Engineering
Email: sishajpsimon@nitt.edu
Mobile: +91-9944073421

Research Interests:
Power System Planning
AI & Soft Computing Techniques
Smart Grid Applications
Solar Power Generation etc..

Facilities/Resources available for Industry & Educational consultancy:
Optimization of Power System Planning Applications, PV Installation and Cost Benefit Analysis, Transformer Protection, Forecasting Applications with AI Tools, Demand Side Management, Smart House Automation etc..
Dr. S. MOORTHI  
**Associate Professor**  
Department of Electrical and Electronics Engineering  
Email: srimoorthi@nitt.edu  
Mobile: +91-9443210281

**Research Interests:**  
VLSI for signal processing,  
Embedded Systems,  
Digital Controllers for Power Applications

**Facilities/Resources available for Industry & Educational consultancy:**  
Hybrid electrical Systems Lab.  
Consultancy work related to Electronic circuit design.

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Dr. G. SARAVANA ILANGO  
**Associate Professor**  
Department of Electrical and Electronics Engineering  
Email: gsilango@nitt.edu  
Mobile: +91-9442366994

**Research Interests:**  
FACTS controllers  
Digital controllers, Power Electronics  
Renewable energy systems

**Facilities/Resources available for Industry & Educational consultancy:**  
Energy Auditing  
Consultancy work in the area of Photovoltaic System
Dr. M. VENKATA KIRTHIGA
Associate Professor
Department of Electrical and Electronics Engineering
Email: mvkirthiga@nitt.edu
Mobile: +91-9942419772

Research Interests:
- Distributed Generation & Micro-grids
- Electrical Machines
- HVDC Transmission

Facilities/Resources available for Industry & Educational consultancy:
- Micro and Nano grid Laboratory – EEE Annex - II floor
- Testing and performance analysis on DC and AC Micro-grids with DERs Member in Siemens Centre of Excellence – yet to explore the facilities

Dr. S. SENTHIL KUMAR
Associate Professor
Department of Electrical and Electronics Engineering
Email: skumar@nitt.edu
Mobile: +91-9443165211

Research Interests:
- Electric Machine drives
- Hybrid electric energy conversion systems
- Micro-grids
- Power Quality
- Power Electronic Interfaces for renewable energy systems

Facilities/Resources available for Industry & Educational consultancy:
- Photovoltaic System, Electric Drive System
- Power quality analyser, High resolution DSOs, Power Electronic Converters/ Inverters, Digital controllers – FPGA &dSPACE real time controllers

Consultancy Expertise:
Consultancy Service can be provided in the area of Energy saving aspects in Electric Drives and Hybrid energy systems. Consultancy Service can be provided in the area of Energy conservation / auditing, motor / generator characteristic studies and integration of renewable energy systems.

Dr. P. RAJA  
**Associate Professor**  
Department of Electrical and Electronics Engineering  
Email: praja@nitt.edu  
Mobile: +91-9942680653

**Research Interests:**  
Renewable Power Generation  
Transmission Line Protection  
Wide Area Measurement  
AC, DC and Special Machines

**Facilities/Resources available for Industry & Educational consultancy:**  
Power System Tools – Power Factory, ETAP & PSCAD  
Solar Simulator

**Consultancy Expertise:**  
Design of Numerical Relaying Schemes  
Basic Energy Audit  
Soft test bench for Renewable Energy System  
Design of Energy Efficient Electrical Machines
Dr. P. SRINIVASA RAO NAYAK
Assistant Professor Grade-I
Department of Electrical and Electronics Engineering
Email: psnayak@nitt.edu
Mobile: +91-7708243070

Research Interests:
- Wireless Power Transfer for Electric Vehicles
- Electric Vehicle Power Trains and Renewable Energy

Facilities/Resources available for Industry & Educational consultancy:

Electric Vehicle Power circuits servicing, and plug-in and wireless battery charging for Electric Vehicles

Dr. S. MAGESHWARI
Assistant Professor
Department of Electrical and Electronics Engineering
Email: mageshwari@nitt.edu
Mobile: +91-9444902847

Research Interests:
- Analog and Digital Electronics
- Computer networks
- Renewable energy Sources

Facilities/Resources available for Industry & Educational consultancy:

Testing of DC and AC Micro grids
Dr. JOSEPHINE R.L  
**Assistant Professor**  
Department of Electrical and Electronics Engineering  
Email: josephinerrl@nitt.edu  
Mobile: +91-9750541213

**Research Interests:**
- Power Electronics
- Renewable Energy Systems
- Power Quality

**Facilities/Resources available for Industry & Educational consultancy:**
- Solar Array Simulators
- Power Quality Analyzers

Dr. VIVEK MOHAN  
**Assistant Professor**  
Department of Electrical and Electronics Engineering  
Email: vivekmohan@nitt.edu  
Mobile: +91-8113093716

**Research Interests:**
- Power Markets, Uncertainty and Risk Management in Power Systems, Power System Finance
- Optimal Power Flow Applications
- Reliability Studies
Facilities/Resources available for Industry & Educational consultancy:

Consultancies: Risk Assessment of Energy projects, Power Market Design, Microgrid and Distributed generation planning and feasibility studies, Load Flow Studies, Design of tariff and power distribution system business models, power system reliability studies

Consultancy Expertise:

- Optimal energy planning of distribution systems and microgrids
- Optimal sizing and siting of energy sources
- Tariff design and business model development for power distribution systems

Dr. KARTHIK THIRUMALA
Assistant Professor
Department of Electrical and Electronics Engineering
Email: thirumala@nitt.edu
Mobile: +91-9994479395

Research Interests:
Power Quality
Power Electronic Applications to Power System

Facilities/Resources available for Industry & Educational consultancy:

DSP and FPGA kits are available in the research labs.
Power Electronic components are available in the department Power Electronics lab.
Dr. MANORANJANSAHOO
Assistant Professor
Department of Electrical and Electronics Engineering
Email: sahoo@nitt.edu
Mobile: +91-7842730026

Research Interests:
Power electronics converter design
Single stage buck-boost inverter
SIMO converter
Multilevel PWM Inverter
Induction motor drive
Power converter for Renewable Energy Applications

Facilities/Resources available for Industry & Educational consultancy:
Development of efficient fault tolerant power electronic converter for renewable energy application
Development of multiport converter for Electric vehicle applications
Development of Power Drive for EV

Dr. SHELAS SATHYAN
Assistant Professor
Department of Electrical and Electronics Engineering
Email: shelassathyan@nitt.edu
Mobile: +91-9561450634

Research Interests:
Power electronics
EV Battery charger
Soft switching converters
Renewable energy integration
Wide band gap devices
Dr. ANKUR SINGH RANA
Assistant Professor
Department of Electrical and Electronics Engineering
Email: ankur@nitt.edu
Mobile: +91-9910478111

Research Interests:
Wide area measurement systems, PMUs, Power system reliability, Power System protection, Smart Grid Communication Technologies, Power System Applications in Microgrid

Dr. K. P. Pinkymol
Assistant Professor
Department of Electrical and Electronics Engineering
Email: pinkymol@nitt.edu
Mobile: +91-9526710598

Research Interests:
Power electronic Convertors, Solid State Trasnformer, Multilevel Inverter and Modulation Techniques

Dr. M. A. Aneesa Farhan
Assistant Professor
Department of Electrical and Electronics Engineering
Email: aneesa@nitt.edu
Mobile: +91-7598164452

Research Interests:
Distributed Generation and Microgrids, Microgrid Protection, DSP and AI Techniques in Power systems Protection, Power Systems and Wide Area Measurements
Dr. ASHOK KUMAR
Assistant Professor
Department of Electrical and Electronics Engineering
Email: krashok@nitt.edu
Mobile: +91-9651853535

Research Interests:
Renewable energy power processing
Single-stage & two stage solar micro-inverters
Modeling & control of power converters

Dr. S. KAYALVIZHI
Assistant Professor
Department of Electrical and Electronics Engineering
Email: kayalvizhi@nitt.edu
Mobile: +91-9790050752

Research Interests:
Planning studies in active distribution network,
Demand side Management, application of evolutionary algorithms in multi-objective problem domain, control and management of microgrid operations, OPF studies on transmission system

Dr. NAVEEN YALLA
Assistant Professor
Department of Electrical and Electronics Engineering
Email: naveenyalla@nitt.edu
Mobile: +91-9068693477

Research Interests:
High power factor converters, Electric vehicle charges, Multi level converters, Solid state Transformers
Department of Energy and Environment

About the department

Year of Establishment: 1995
Number of Faculty : 3

Courses offered

UG: -
PG: M. Tech (Energy Engineering)
Ph.D & M.S (by research)
Dr. M. PREMALATHA
Professor
Department of Energy and Environment
Email: latha@nitt.edu
Mobile: +91-9894600407

Research Interests:
CO₂ sequestration using micro-algae and phyco-remediation.
Solar water heating systems and solar distillation.
Energy Audit and Management

Facilities/Resources available for Industry & Educational consultancy:
ISO certified Testing and Analysis lab.
NABL accredited calibration lab.
Algal biotechnology lab and Algal cultivation shed.

Consultancy Expertise:
1. Testing and analysis of solid and liquid samples.
2. Calibration of instruments: electrical, pressure and temperature parameters.
3. Energy Audit for MSMEs/Industries.

Dr. RUBEN SUDHAKAR D
Assistant Professor
Department of Energy and Environment
Email: rubensudhakar@nitt.edu
Mobile: +91-9481208902/8105507766

Research Interests:
Combustion and Gasification systems for heat and power
CO₂ capture technologies
Energy System Analysis
Energy Efficiency
Facilities/Resources available for Industry & Educational consultancy:
Design and Development of Combustion and Gasification systems
Energy audit and conservation Fluidized bed systems

Dr. V. M. JAGANATHAN
Assistant Professor
Department of Energy and Environment
Email: vmjagan@nitt.edu
Mobile: + 91 - 9718829732

Research Interests:
Thermo-chemical conversion of solid fuels, Bio-char applications, Carbon Sequestration technique, Energy efficient technologies, Solar energy, Energy storage methods

Facilities/Resources available for Industry & Educational consultancy:
Heat & Power generation using renewable resources, Green cooling technologies, Value added product synthesis from biomass, Energy solutions using 3-D printing technologies
Department of Humanities & Social Sciences

About the department

Year of Establishment: 2004
Number of Faculty : 11

Courses offered

PG: M.A (English Language & Literature)
Ph.D
Dr. V. VINOD BALAKRISHNAN
Professor
Department of Humanities & Social Sciences
Email: vinod@nitt.edu

Research Interests:
Language & Linguistics

Dr. R. MURUGESAN
Professor
Department of Humanities & Social Sciences
Email: rmurugan@nitt.edu

Research Interests:
Industrial economics, Professional Ethics, Applied Econometrics, Entrepreneurship Development

Dr. R. JOSEPH PONNIAH
Professor
Department of Humanities & Social Sciences
Email: joseph@nitt.edu

Research Interests:
Biolinguistics, English Language teaching, Second language acquisition
Prof. R. GURURAJ  
Associate Professor  
Department of Humanities & Social Sciences  
Email: guru@nitt.edu  

Research Interests:  
Technical Communication, Computer assisted language teaching & learning

Dr. G. NAGASUBRAMANIYAN  
Associate Professor  
Department of Humanities & Social Sciences  
Email: nagus@nitt.edu  

Research Interests:  
Managerial economics, Organizational behaviour, Industrial Psychology, Personnel Management, Sociology & Culture

Dr. SATHYARAJ VENKATESAN  
Associate Professor  
Department of Humanities & Social Sciences  
Email: sathya@nitt.edu  

Research Interests:  
Graphic medicine, Global health medicine, Literary health humanities, Comic studies
Dr. S. MEKALA  
**Associate Professor**  
Department of Humanities & Social Sciences  
Email: mekala@nitt.edu

**Research Interests:**  
Curriculum design, Teaching & Learning Methods, Corporate communication, 21st century skills education

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Dr. V. K. KARTHIKA  
**Assistant Professor**  
Department of Humanities & Social Sciences  
Email: vkkarthika@nitt.edu

**Research Interests:**  
Second language acquisition, Multilingual education, Cultural studies, English Medium instruction, Soft skills and Employability skills

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Dr. M. PADMAJA  
**Assistant Professor**  
Department of Humanities & Social Sciences  
Email: padmaja@nitt.edu

**Research Interests:**  
International economics, Applied econometrics, Foreign Direct Investment, Industrial Economics
| **Dr. UMASANKAR PATRA**  
Assistant Professor  
Department of Humanities & Social Sciences  
Email: umasankar@nitt.edu |
|---|
| **Research Interests:**  
Anglo-American modernism, Autobiography studies, Queer studies and Modernity in India, |

| **Dr. NISHA VISWANATHAN**  
Assistant Professor  
Department of Humanities & Social Sciences  
Email: nishav@nitt.edu |
|---|
| **Research Interests:**  
Postcritical literary studies, Author studies, Literary Theory, Philosophy of Literature, Critical Posthumanism |
Department of Instrumentation and Control Engineering

About the department

Year of Establishment: 1993
Number of Faculty : 15

Courses offered

UG:  B.Tech (ICE)
PG :
M.Tech: (Process Control & Instrumentation)
(Joint Programme with Chemical Engg.)
Ph.D & M.S (by research)
**Dr. M. UMAPATHY**  
**Professor (HAG)**  
Department of Instrumentation and Control Engineering  
Email: umapathy@nitt.edu  
Mobile: +91-9443013136

**Research Interests:**  
Sensors and actuators, Instrumentation system design, MEMS, Smart Materials, Energy Harvesting, Modelling and control of smart structures, sliding mode control

**Facilities/Resources available for Industry & Educational consultancy:**  
MEMS Design Tools, LASER displacement Sensor, Probe station, LCR meter, Vibration test and measuring Equipment.

**Consultancy Expertise:**  
Design and Testing of Sensors and any measuring instrument.  
Design of controllers for any application.  
Design and development of Bio medical Instruments for Physiological measurements.
Dr. RAMAKALYAN AYYAGARI
Professor
Department of Instrumentation and Control Engineering
Email: rkalyn@nitt.edu
Mobile: +91-9443923485

Research Interests:

Facilities/Resources available for Industry & Educational consultancy:
MATLAB, Mobile Robotic Kits, A full-fledged Industrial Robotics Lab with Pick-and-Place Robots

Consultancy Expertise:

- I am interested in designing large scale control systems, in particular cyber-physical systems, network security, software development.
- Recently I have successfully completed a MeITy/ITRA funded project "De-congesting India's transportation networks using mobile devices" sanctioned by Information Technology Research Academy (ITRA).
- Currently working on a exa-scale control system project.
- In general, I am also interested in other large-scale electrical/mechanical/chemical/ production engineering, and non-engineering systems, finance and economics.
Dr. G. UMA
Professor
Department of Instrumentation and Control Engineering
Email: guma@nitt.edu
Mobile: +91-9443454987

Research Interests:

Facilities/Resources available for Industry & Educational consultancy:
MEMS Design Tools, LASER displacement Sensor, Probe station, LCR meter, Vibration test and measuring Equipment's.

Consultancy Expertise:
- Design and Testing of Sensors and any measuring instrument
- Design and development of Bio medical Instruments for Physiological measurements.

Dr. B. VASUKI
Professor
Department of Instrumentation and Control Engineering
Email: bvas@nitt.edu
Mobile: +91-9443186478

Research Interests:
Interval Analysis, Instrumentation System and Control Engineering

Facilities/Resources available for Industry & Educational consultancy:
8- 1/2 Digit Multimeter and LCR meter

Consultancy Expertise: Design and Testing of Instrumentation systems and uncertainty analysis of measurement.
Dr. DHANALAKSHMI K.
Professor
Department of Instrumentation and Control Engineering
Email: dhanlak@nitt.edu
Mobile: +91-9443858456

Research Interests:
Sensors and Actuators/Drives
Intelligent Material Systems and Structures
Flexible Mechatronics Design and Applications
Energy Harvesting

Facilities/Resources available for Industry & Educational consultancy:
NiTi wires, springs – for design and development of appropriate mechatronic systems
Instrumentation systems – for test and analysis
Precision Impedance Analyser 20 Hz – 20 MHz
Laser Displacement Sensor : 0 - 50 mm, 0 - 100 mm
Miniature ‘S’ type Load cell: 2 kg
Fluxmeter / Precision milli Gauss meter: 3000 mG
Current probe: 100kHz, 100 A
Thermal Imager
Anemometer
Interfacing Cards: USB-1408FS – for testing and simulating control systems / control algorithms

Consultancy Expertise:
New actuator/drive for soft robotics, flexible mechatronics, agriculture, aerospace and automotive.
Self-sensing actuator for structural health monitoring and vibration control.
Assistive devices, bio-medical, bio-mimetics using SMA technology.
Ambient energy scavenging system, Renewable energy microgrid.
Dr. N. SIVAKUMARAN
Professor
Department of Instrumentation and Control Engineering
Email: nsk@nitt.edu
Mobile: +91-9443745705

Research Interests:
Modelling and Control system design for industrial processes.
Intelligent System Design
Modal based/free controller design
Networked Control System/Cloud/SCADA/Wireless Automation

Facilities/Resources available for Industry & Educational consultancy:

Process Control
Distributed Control System- CENTUM CS, Yokogawa
PLC System - ABB/Seimens
Wireless/SCADA based system
Wireless Transmitter, Yokogawa
Pilot Test rigs: Quadruple Tank System, pH, Heat Exchanger, Hybrid Tank

Biomedical System Design
Data Acquisition System, National Instruments
Digital Video EEG system - 32 channels – 2D & 3D Scalp maps

Agriculture
Data Acquisition System, National Instruments
Design of Signal Conditioning Circuits using Engineering Laboratory Virtual Instrumentation Suite, National Instruments
Pilot Test rigs

Consultancy Expertise:
**Process Control**

Modelling / Estimation/ Control for industrial processes.
Prediction based design using Soft Computing Methods.
Metaheuristic based predictions based on Optimization methods
Statistical data Analysis

**Biomedical System Design**

Modelling / Estimation/ Control for Physiological System.
Deep learning algorithms for Seizure Prediction and Diagnostics.
Image Processing and Pattern Matching.

**Agriculture**

Post-Harvest Technologies – Cold Storage System
Health Monitoring of Crops

Training Programme in the area of measurement and Control and Automation for process/Biomedical/Agriculture
Dr. K. SRINIVASAN  
Associate Professor  
Department of Instrumentation and Control Engineering  
Email: srinikkn@nitt.edu  
Mobile: +91-9443661591

**Research Interests:**
- Next Generation Controller  
- Estimation, Modelling and Control for linear/non-linear system  
- Networked control system  
- Soft Sensor Development and Sensor linearization  
- Cloud/SCADA /Wireless based automation

**Facilities/Resources available for Industry & Educational consultancy:**
- CENTUM CS Distributed Control System  
- ABB/Seimens/AB PLC System  
- Wireless/SCADA based automation of Conveyor system  
- Yokogawa industrial Wireless Transmitter  
- Process Test rig: pH, Multi process, Heat Exchanger, Hybrid tank

**Consultancy Expertise:**
- Modelling / Estimation/Control of non-linear industrial process using linear/non-linear technique.  
- Scalable, flexible, user friendly and performance guaranteed controller development using multi model/ MPC/Next generation controller  
- Soft Sensor development, multi sensor data fusion and sensor linearization technique using conventional and intelligent techniques.  
- Networked based estimation and controller development of linear /non-linear system.  
- Executive Training Programme in the area of measurement and Control Health Monitoring of Crops  
- Training Programme in the area of measurement and Control and Automation for process/Biomedical/Agriculture
Dr. D. EZHILARASI
Associate Professor
Department of Instrumentation and Control Engineering
Email: ezhil@nitt.edu
Mobile: +91-9444878908

Research Interests:
Modelling and Control, Energy harvesting from vibration, Control of Longitudinal train Dynamics, adaptive Sliding mode control, Agricultural Green House Automation

Facilities/Resources available for Industry & Educational consultancy:

- Fully automated Green House for crop growth analysis & related study (150 Sq.m)
- Interfacing Cards - dSpace 1104, USB-1408FS, NI-Elvis, NI-DAQ - for testing and simulating control algorithms for complex systems
- Prepolarized Condenser microphones with preamplifiers for vibration & acoustic testing
- State of Art Control Plants – Quanser Gyro, Twin rotor Quanser AERO, Rotary double inverted pendulum
- ARM CORTEX M4 Series Experimenter Boards (with Matlab Simulink interface), TMS320C6713 DSP Boards for developing standalone applications
- Venticell- forced air heating oven for sterilization and other temperature tolerance testing applications

Consultancy Expertise:

- Model development for assistive devices, high-speed train and other systems
- Design of model based robust controllers (Adaptive and sliding mode control) with specific requirement
- Design of energy harvesters for low power devices
Crop growth analysis, consultancy related to nutrients requirement and climatic condition requirement for sensitive and rare plant varieties

Sensing & control of agricultural parameters

Mr. Goldin R Bennet  
Associate Professor  
Department of Instrumentation and Control Engineering  
Email: bennet@nitt.edu  
Mobile: +91-

Research Area:
Measurement System Design, Harnessing solar energy, Product Design and Development

Dr. S. NARAYANAN  
Assistant Professor  
Department of Instrumentation and Control Engineering  
Email: narayan@nitt.edu  
Mobile: +91-9486437744

Research Interests:
PID Control Design  
Control Engineering

Facilities/Resources available for Industry & Educational consultancy:
Model based control design solution and model free control design solution
Ms. V. SRIDEVI  
**Assistant Professor**  
Department of Instrumentation and Control Engineering  
Email: sridevi@nitt.edu  
Mobile: +91-9443082579

**Research Interests:**
Signal processing, EEG signal analysis for epilepsy, Instrumentation, Embedded Systems, Wireless Sensor Network

**Facilities/Resources available for Industry & Educational consultancy:**
EEG LAB for Research and Clinical study  
32–channels video EEG system for scalp EEG recording with high resolution camera to pick up the clinical symptoms.

**Consultancy Expertise:**
I am interested to collaborate in the field of Signal processing, EEG signal analysis, embedded system design with programming capabilities in MATLAB and embedded C. Also, I am interested in 3D modelling.

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Dr. GEETHA CHAKARAVARTHI  
**Assistant Professor**  
Department of Instrumentation and Control Engineering  
Email: geethac@nitt.edu  
Mobile: +91-9444479121

**Research Interests:**
Microwaves, Antenna design, Biomedical Instrumentation, Sensors, Structural Health Monitoring, Electromagnetic Non destructive Evaluation
Facilities/Resources available for Industry & Educational consultancy:

Defect detection and characterization using RFID based wireless sensors
- Wireless sensor network for condition monitoring of structures
- EM material characterization
- EM sensors for biomedical applications
- Medical device design

Dr. R PERIYASAMY
Assistant Professor
Department of Instrumentation and Control Engineering
Email: periyasamyr@nitt.edu
Mobile: +91-9179826937

Research Interests:
Biomedical Instrumentation, Foot Biomechanics & Diabetes,
Diagnostic Device Development, Sensors & Transducer,
Bio Signal & Image processing

Facilities/Resources available for Industry & Educational consultancy:

In terms of Equipment:
NI DAQ, Sensory measurement device, Hardness tester, Infrared Thermometer,
Multiwavelength NIRS probe system for oxygen concentration measurement in blood. Software: Matlab, LabView

Consultancy Expertise:
I am interested in Diagnostic device development and Rehabilitation therapy. I am also expertise in the area of biomedical instrumentation, foot biomechanics, diabetic foot risk detection, Postural analysis and detection
Dr. KARTHICK P A  
Assistant Professor  
Department of Instrumentation and Control Engineering  
Email: pakarthick@nitt.edu  
Mobile: +91-7538838231

**Research Interests:**  
Neurological and neuromuscular disorders, Human Machine Interface, Signal processing, Machine learning algorithms

**Facilities/Resources available for Industry & Educational consultancy:**  
MATLAB, Python

**Consultancy Expertise:**  
If any Consultancy Services from your side for CII people: I am interested in developing active rehabilitation devices, in particular lost cost rehabilitation devices for neurological disorders such as stroke and epilepsy etc. I am also keen in developing automated system for the diagnosis of various neurological, neuromuscular and cardiovascular disorders using signal processing principles and machine learning algorithms.

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Dr. SHIRAZ SOHAIL  
Assistant Professor  
Department of Instrumentation and Control Engineering  
Email: ssohail@nitt.edu

**Research Interests:**  
MEMS device, Instrumentation, Sensor Design and Fabrication, Analog circuit design
Department of Mathematics

About the department

Year of Establishment: 1964
Number of Faculty: 17

Courses offered

UG: -
PG: M.Sc
Ph.D & M.S (by research)
Dr. PONALAGUSAMY R  
Professor HAG  
Department of Mathematics  
Email: rpalagu@nitt.edu  
Mobile: +91-7402448889  

**Research Interests:**  
Computational Bio-fluid Mechanics  

**Facilities/Resources available for Industry & Educational consultancy:**  
Mathematical Tools  

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Dr. K. MURUGESAN  
Professor (HAG)  
Department of Mathematics  
Email: murugu@nitt.edu  
Mobile: +91-9443785050  

**Research Interests:**  
Numerical Techniques  
Differential & Integral Equations and image processing  

**Facilities/Resources available for Industry & Educational consultancy:**  
Consultancy Expertise:  
Educational Consultancy
Dr. T. N. JANAKIRAMAN
Professor HAG
Department of Mathematics
Email: janaki@nitt.edu, tnjraman2000@yahoo.com
Mobile: +91-9894794198

Research Interests:
Graph Theory and its applications, Algorithms, Cryptography, Number Theory, Image Processing, Clustering in all Communication Networks.

Facilities/Resources available for Industry & Educational consultancy:

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Dr. V. KUMARAN
Professor
Department of Mathematics
Email: kumaran@nitt.edu
Mobile: +91-9444808236

Research Interests:
Fluid Mechanics Operations Research

Facilities/Resources available for Industry & Educational consultancy:
Dr. V. RAVICHANDRAN
Professor
Department of Mathematics
Email: ravic@nitt.edu
Mobile: +91-9818838637

Research Interests:
Geometric Function Theory

Facilities/Resources available for Industry & Educational consultancy:

Dr. R. TAMILSELVI
Associate Professor
Department of Mathematics
Email: tamil@nitt.edu
Mobile: +91-7598176202

Research Interests:
Fluid Dynamics
Operations Research

Facilities/Resources available for Industry & Educational consultancy:
Dr. P. SAIKRISHNAN,  
Professor  
Department of Mathematics  
Email: psai@nitt.edu  
Mobile: +91-9787877471  

**Research Interests:**  
Boundary Layer Theory, Fluid dynamics  

**Facilities/Resources available for Industry & Educational consultancy:**  
Department of mathematics have software for scientific computing. Modelling problems mathematically and finding the most efficient way to solve the problem.

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Dr. V. LAKSHMANA GOMATHI NAYAGAM  
Associate Professor  
Department of Mathematics  
Email: velulakshamanan@nitt.edu  
Mobile: +91-9443881718  

**Research Interests:**  
Fuzzy Mathematics: Theory and Modelling  

**Facilities/Resources available for Industry & Educational consultancy:**
Dr. V. SHANTHI
Associate Professor
Department of Mathematics
Email: vshanthi@nitt.edu
Mobile: +91-9487440341

Research Interests:
Numerical Analysis for Differential equations

Facilities/Resources available for Industry & Educational consultancy:

Dr. I. JEYARAMAN
Assistant Professor
Department of Mathematics
Email: jeyaraman@nitt.edu
Mobile: +91-9884164316

Research Interests:
Linear Algebra
Optimization
Dr. N. PRAKASH
Assistant Professor
Department of Mathematics
Email: prakashn@nitt.edu
Mobile: +91-7845688072

Research Interests:
Functional Analysis
Best Approximation Theory
Geometry of Banach Spaces

Dr. JITRAJ SAHA
Assistant Professor
Department of Mathematics
Email: jitraj@nitt.edu
Mobile: +91-9477033914

Research Interests:
Mathematical Analysis of ODEs and PDEs
Numerical Analysis
Scientific Computing

Dr. VAMSINADH THOTA
Assistant Professor
Department of Mathematics
Email: vamsinadh@nitt.edu
Mobile: +91-8173980996

Research Interests:
Best Approximation Theory
Geometry of Banach Spaces
Facilities/Resources available for Industry & Educational consultancy:

Department of mathematics have software for scientific computing. Modelling problems mathematically and finding the most efficient way to solve the problem

Dr. N. SHIVARANJANI
Assistant Professor
Department of Mathematics
Email: ranjani@nitt.edu
Mobile: +91-9159177345

Research Interests:
Numerical analysis of singular perturbation problems, delay differential equations, differential equations in mathematical biology

Dr. ATUL KUMAR VERMA
Assistant Professor
Department of Mathematics
Email: atul@nitt.edu

Research Interests:
Mathematical Modelling of stochastic transport systems, discrete Markov model
Dr. M. SIVANESAN  
Assistant Professor  
Department of Mathematics  
Email: sivanesan@nitt.edu

**Research Interests:**  
Differential and Integral Equations, Wave-structure interactions

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Dr. ABHIJIT DAS  
Assistant Professor  
Department of Mathematics  
Email: abhijit@nitt.edu

**Research Interests:**  
Fluid dynamics, Boundary layer flows, non-Newtonian fluid flows, Numerical analysis
Department of Management Studies

About the department

Year of Establishment: 1987
Number of Faculty: 16

Courses offered

UG: -
PG: MBA
Ph.D & M.S (by research)
Dr. G. KANNABIRAN  
Professor (HAG)  
(On Lien as Director IIIT Sri City Chittoor AP)  
Department of Management Studies  
Email: kb@nitt.edu  
Mobile: +91-9443152355  

**Research Interests:**  
IS strategy, e-Business, e-governance, Enterprise systems, Supply chain management, Knowledge management, IS off shoring, software project management

**Facilities/Resources available for Industry & Educational consultancy:**  
Knowledge management, Enterprise system, Software Project management

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Dr. M. PUNNIYAMURTHY  
Professor (HAG)  
Department of Management Studies  
Email: punniya@nitt.edu  
Mobile: +91-94860 01130, +91-9443866660  

**Research Interests:**  

**Facilities/Resources available for Industry & Educational consultancy:**  
Business analytics, Machine learning, Operations management, Logistics and Supply chain management
Dr. N. THAMARAISELVAN
Professor
Department of Management Studies
Email: selvan@nitt.edu
Mobile: +91-9443777217

Research Interests:
Self Service Technologies, Brand Leveraging Strategies, Customer Satisfaction Analytics Services Marketing, Social and online Medias

Facilities/Resources available for Industry & Educational consultancy:
Brand leverage strategies, services marketing, Market Research and customer satisfaction analytics

Dr. V. J. SIVAKUMAR
Professor
Department of Management Studies
Email: vjs@nitt.edu
Mobile: +91-94880 58971

Research Interests:
Marketing Management, Strategic Brand Management, Sales Management, Retail Marketing, Customer Relationship Management, Entrepreneurship

Facilities/Resources available for Industry & Educational consultancy:
Customer relationship management, sales management, strategic brand management and retail marketing
Dr. B. SENTHIL ARASU
Professor
Department of Management Studies
Email: arasu@nitt.edu
Mobile: +91-94432 11106

Research Interests:
Financial Management, Stock market, Derivatives, Behavioural Traits and Investment Decisions

Facilities/Resources available for Industry & Educational consultancy:
Stock market prediction, Personal Finance, Investment decisions and SME financing

Dr. P. SRIDEVI
Associate Professor
Department of Management Studies
Email: psridevi@nitt.edu
Mobile: +91-9486001176

Research Interests:
Support Vector Machine, Information System, Data mining, Business Intelligence, Enterprise Resource Planning

Facilities/Resources available for Industry & Educational consultancy:
Data mining, business intelligence, Support vector machine
Dr. G. MURUGANANTHAM
Associate Professor
Department of Management Studies
Email: murugan@nitt.edu
Mobile: +91-9865175135

Research Interests:
Marketing, Consumer Behaviour, Advertising, Branding

Facilities/Resources available for Industry & Educational consultancy:
Branding, advertising and consumer behaviour

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Dr. V. LAVANYA
Assistant Professor
Department of Management Studies
Email: lavanya@nitt.edu
Mobile: +91-9080345411

Research Interests:
Human Resources, Organizational Behaviour, Entrepreneurship

Facilities/Resources available for Industry & Educational consultancy:
Human resources, Employee retention, organizational climate
Dr. S. NIVETHITHA
Assistant Professor
Department of Management Studies
Email: snive@nitt.edu
Mobile: +91-9344546699

Research Interests:
Employment relationships - psychological contract, employee turnover intention and turnover; Implications of HR practices; Stress and Burnout; Performance Management, HR Analytics.

Facilities/Resources available for Industry & Educational consultancy:
Leadership Development, Employee Engagement, Performance Management, Employee Well-being, Workplace Happiness, HR Analytics, Employee pulse surveys, HR and OB models/tool development.

Consultancy Expertise:
Consultant to leading textile and rubber manufacturing organizations in the area of employee engagement, leadership development, performance management system, employee well-being. Developed HR and OB models/tools to examine the employee opinion on organizational practices.

Dr. S. YAMINI
Assistant Professor
Department of Management Studies
Email: syamini@nitt.edu

Research Interests:
Operation and analytics, supply chain management, operation management, behavioural dynamics in decision making, Stochastic modelling and Applications.
Dr. Shobitha Poulose  
**Assistant Professor**  
Department of Management Studies  
Email: shobitha@nitt.edu

**Research Interests:**  
Employee work life balance, Work and non-work consequences, working conditions, work stress, Individual and organizational interventions towards work life balance

Dr. B. JANARTHANAN  
**Assistant Professor**  
Department of Management Studies  
Email: jana@nitt.edu

**Research Interests:**  
Cyber psychology, technology oriented marketing, internet advertising and promotions, smartphone game advertising, MSME development and entrepreneurship
Dr. S. MALOLAN
Assistant Professor
Department of Management Studies
Email: malolan@nitt.edu

Research Interests:
Closed loop supply chains – Return acquisition price modelling, remanufacturing system design, sustainable economic policies Manufacturing 4.0 - Performance monitoring and Prescriptions

Dr. I. RAJESH
Assistant Professor
Department of Management Studies
Email: irajesh@nitt.edu

Research Interests:
Customer experience management, Customer engagement, Services marketing, Research methodology, Consumer behaviour, Marketing Analytics
Dr. MANJU MAHIPALAN  
Assistant Professor  
Department of Management Studies  
Email: mmanju@nitt.edu

Research Interests:  
Organizational behaviour, positive psychology and its relevance in work environment, workplace spirituality in enhancing work related outcomes

Dr. J. KIRUBAKARAN  
Assistant Professor  
Department of Management Studies  
Email: kirubakaran@nitt.edu

Research Interests:  
Department of Mechanical Engineering

About the department

Year of Establishment: 1964
Number of Faculty: 28

Courses offered

UG: B.Tech (Mechanical Engineering)
PG: M.Tech (Thermal Power Engineering)
M.Tech (Industrial Safety Engineering)
Ph.D & M.S (by research)
Dr. K. SANKARANARAYANASAMY
Professor (HAG)
Department of Mechanical Engineering
Email: ksnsamy@nitt.edu

Research Interests:
Pressure vessel design, Vibrational Analysis, Industrial safety, Laser Materials Processing

Dr. M. UDAYAKUMAR
Professor (HAG)
Department of Mechanical Engineering
Email: muday@nitt.edu

Research Interests:
Thermodynamics, IC engines, Combustions, Fluid power systems and Control

Dr. S. SHANMUGAM
Professor (HAG)
Department of Mechanical Engineering
Email: shunt@nitt.edu

Research Interests:
Design of pressure vessel and piping, Stress analysis of machine elements, FEM applications, Solar energy applications
Dr. S. VENKATACHALAPATHY
Professor
Department of Mechanical Engineering
Email: svc@nitt.edu

Research Interests:
Heat Transfer, Heat Exchanger Design, Electronic Cooling, Computational Fluid Dynamics

Available Facilities and Consultancy Services to be Provided:
Thermal Conductivity Measurement for Solids & liquids, Dry-Well Thermocouple Calibrator.
Thermocouple Welding Machine, Thermal Imaging Camera
Vacuum Diffusion Pump, Solar Intensity Measurement Devices- Pyranometer, Albedometer, etc.

Dr. A. R. VEERAPPAN
Professor
Department of Mechanical Engineering
Email: aveer@nitt.edu

Research Interests:
FEM, Thermal power equipment design, Fluid mechanics and machinery, Thermal engg
Dr. S.P. SIVAPIRAKASAM  
**Professor**  
Department of Mechanical Engineering  
Email: spshivam@nitt.edu, spsivam@yahoo.com  
Mobile: +91-99445 47215

**Research Interests:**  
Industrial safety, Process safety, Ergonomics, Emission and control, Particulate matters, Welding fumes, Pyrotechnics, Green manufacturing, Airbag gas generants performance analysis

**Facilities/Resources available for Industry & Educational consultancy:**  
- Personal Air Sampler with Cascade Impactor  
- Impact Sensitivity Measurement Apparatus  
- Friction Sensitivity Tester  
- Time – Pressure test apparatus for energetic materials.  
- Thermal tank testing equipment for performance analysis of Automotive Airbags  
- Noise level meter

**Consultancy Expertise:**  
Safety Audit, HAZOP, Dispersion Modelling with software tools, Quantitative Risk Assessment, HIRA, Onsite/Offsite Emergency Plan, Accident Investigation, Noise survey, Safety Trainings, Airbag gas generants performance analysis

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Dr. R. B. ANAND  
**Professor**  
Department of Mechanical Engineering  
Email: rbanand@nitt.edu

**Research Interests:**  
Fluid mechanics, Turbomachines, Internal combustion engines, Power plant engineering
Prof. S. S. ARULAPPAN  
Associate Professor  
Department of Mechanical Engineering  
Email: sarul@nitt.edu  

Research Interests:  
Machine Design, Wind energy, Ocean wave energy

Dr. K. PANNIRSELVAM  
Associate Professor  
Department of Mechanical Engineering  
Email: pannir@nitt.edu  
Mobile: +91-94880 59034  

Research Interests:  
Instrument

Facilities/Resources available for Industry & Educational consultancy:  
Vibration analyser, Vibration monitoring, Oven Calibration
Dr. M. SHAHUL HAMEED
Associate Professor
Department of Mechanical Engineering
Email: hameed@nitt.edu

Research Interests:
Vapor absorption refrigeration, Alternate refrigeration

Dr. R. ANAND
Associate Professor
Department of Mechanical Engineering
Email: anandachu@nitt.edu
Mobile: +91-94448 38909

Research Interests:

Facilities/Resources available for Industry & Educational consultancy:

Fuels Lab
- Gas-chromatography
- Microwave-assisted transesterification – 1 liter
- Ultrasonic-assisted transesterification – 500 mL
- Microwave Pyrolysis oil – 1 liter
- Electrical Pyrolysis oil – 1 liter
- Filtration – Centrifuge (500 mL)
- Vacuum Distillation - 1 liter
• Kinematic viscosity
• Cloud and Pour point
• Acid value and Free fatty acid
• Saponification value
• Iodine value

**Engine Lab**

- SI Engine Performance, emission and combustion testing for fuels like petrol and alcohols - Single Cylinder engine, Multi cylinder engine, Carburetor system, MPFI system
- Diesel engine Performance, emission and combustion testing for fuels like Diesel, Biodiesel and Biodiesel Blends – Single Cylinder engine, Multi cylinder engine, Variable compression ratio engine, Mechanical fuel injection system, CRDI injection system, EGR setup

**Consultancy Expertise:**

Performance, emission and combustion testing of Dual fuel engine using fuels like diesel and LPG
Dr. V. ARUL MOZHI SELVAN
Associate Professor
Department of Mechanical Engineering
Email: arulmozh@nitt.edu

Research Interests:
Energy & Fuels, Nanoadditives, IC Engines, Acoustic Metamaterials and Composites, Noise Vibration and Harshness (NVH)

Available Facilities and Consultancy Services to be Provided:
Biofuel preparation and characterization
Fuel borne Nanoadditives and its effect on IC Engines
Rheological and Heat Transfer performance of Hybrid Nanolubricants
Performance, Combustion, Emission Test on Automotive and Stationary Engines
Acoustic Metamaterials and Nanocomposites for Automotive Applications
Noise, Vibration and Harshness (NVH)

Dr. K.R. BALASUBRAMANIAN
Associate Professor
Department of Mechanical Engineering
Email: krbala@nitt.edu
Mobile: +91-94435 61873

Research Interests:
Thermal Engineering, Thermodynamics, Turbomachines, Design, Laser Materials Processing, CAD/CAM, Fluid Mechanics

Facilities/Resources available for Industry & Educational consultancy:
Calibration of Pressure Gauges, Ergonomic survey in industries.
Portable Types Surface Roughness Tester, Thermocouple Calibration Setup
Dr. V. MARIAPPAN
Associate Professor
Department of Mechanical Engineering
Email: vmaris@nitt.edu

Research Interests:
Thermodynamics, Refrigeration & Air conditioning, Computational Fluid dynamics

Dr. T. RAMESH
Associate Professor
Department of Mechanical Engineering
Email: tramesh@nitt.edu

Research Interests:
Engineering Design, MEMS and Micro Devices, Finite Element Methods, Powder Metallurgy, Biomaterials

Dr. S. SURESH
Associate Professor
Department of Mechanical Engineering
Email: ssuresh@nitt.edu

Research Interests:
Heat pipes, Phase change materials, Nanofluids, Heat Transfer, Energy Engineering, Environmental & pollution control
Facilities/Resources available for Industry & Educational consultancy:

UV-VIS Spectrophotometer
FTIR Spectrophotometer
Differential Scanning Calorimeter
Thermo Gravimetric Analyzer
C-Therm Trident Thermal conductivity Analyzer
Contact angle meter
Laser Flash Apparatus
Force Tensiometer
Thermal cycling chamber

Dr. N. SIVA SHANMUGAM
Associate Professor
Department of Mechanical Engineering
Email: nsiva@nitt.edu
Mobile: +91-94436 49278

Research Interests:
Finite Element Method, Welding, Wire Arc Additive, Manufacturing, Ergonomics

Facilities/Resources available for Industry & Educational consultancy:

Universal Testing Machine – 1 kN, 25 kN, 50 kN& 1000 kN
Welding – GTAW, PAW, M-PAW, RSW, GMAW-CMT, Robotic-MIG
Wire Cut EDM & Die-Sinker EDM Machine
Impact Test (Metals)
Shear tester
Hardness Test (Rockwell & Brinell)
Fatigue Testing Machine – 100 kN
CO2 Laser Engraving / Cutting Machine (Non-metals)
Gait analysis system and Finger TPS
Vibration Exciter
Micro Force Measuring Instrument
FEM Packages like COMSOL, ANSYS and ABAQUS (Research Versions)
Micro Strain Measuring Instrument

Dr. NANDA NAIK KORA
Assistant Professor
Department of Mechanical Engineering
Email: naik@nitt.edu

Research Interests:
Activated tungsten inert gas welding process, Duplex stainless steel alloys

Dr. ASHOK KUMAR NALLATHAMBI
Assistant Professor
Department of Mechanical Engineering
Email: nashok@nitt.edu

Research Interests:
Metal Quenching - cooling strategies, Leidenfrost effect, distortion and residual stresses, quench cracks. Metal Casting – solidification and process modeling, continuous casting of steel, aluminum, copper, hot tearing. Thermomechanical process modeling, material characterization, metal plasticity, thermal fracture
Available Facilities and Consultancy Services to be Provided:

Process modelling – industrial casting & quenching process modelling
OptiCast – casting simulation software for thermomechanical simulation of continuous casting
Optimum cooling strategy development for minimizing distortion and residual stresses
Quenching Experimental facility for optimum cooling strategy validation
Infrared thermography - Quench crack experimentation on aluminum, copper plates
Hot tearing investigation

Dr. S. S. HARISH
Assistant Professor
Department of Mechanical Engineering
Email: harish@nitt.edu
Research Interests:
Refrigeration, Heat Exchanger design, Mixed Refrigerants, VCR systems, Expansion capillary design

Dr. P. KAUSHIK
Assistant Professor
Department of Mechanical Engineering
Email: pkaushik@nitt.edu
Research Interests:
Fluid dynamics, Computational fluid dynamics, Non-newtonian fluids
Dr. S. VEDHARAJ
Assistant Professor
Department of Mechanical Engineering
Email: vedha@nitt.edu

Research Interests:
Alternate Fuels
High Efficiency Combustion
IC Engines

Available Facilities and Consultancy Services to be Provided:

Fuels Lab
- Gas-chromatography
- Microwave-assisted transesterification – 1 liter
- Ultrasonic-assisted transesterification – 500 mL
- Microwave Pyrolysis oil – 1 liter
- Electrical Pyrolysis oil – 1 liter
- Filtration – Centrifuge (500 mL)
- Vacuum Distillation - 1 liter
- Kinematic viscosity
- Cloud and Pour point
- Acid value and Free fatty acid
- Saponification value
- Iodine value

Engine Lab
- SI Engine Performance, emission and combustion testing for fuels like petrol and alcohols - Single Cylinder engine, Multi cylinder engine, Carburetor system, MPFI system
- Diesel engine Performance, emission and combustion testing for fuels like Diesel, Biodiesel and Biodiesel Blends – Single Cylinder engine, Multi cylinder engine, Variable compression ratio engine, Mechanical fuel injection system, CRDI injection system, EGR setup
Performance, emission and combustion testing of Dual fuel engine using fuels like diesel and LPG

Dr. R. PRAKASH  
Assistant Professor  
Department of Mechanical Engineering  
Email: rprakash@nitt.edu  
Mobile: +91-9444810545

**Research Interests:**  
- Structural Health Monitoring  
- Mechanics of Composite Structures  
- Computational Mechanics  
- Finite Element Analysis  
- Vibration Control

**Facilities/Resources available for Industry & Educational consultancy:**  
- Stirring Machine  
- Composite Materials cutting machine  
- Composite Curing Oven

**Consultancy Expertise:**  
- Structural Health Monitoring  
- Mechanics of Composite Structures  
- Computational Mechanics  
- Finite Element Analysis  
- Vibration Control
Dr. BISHWESHWAR BABU  
Assistant Professor  
Department of Mechanical Engineering  
Email: bishweshwar@nitt.edu

**Research Interests:**  
Solid mechanics and design, Finite element method, Plates and shells, Structural dynamics and stability, Nonlinear Mechanics, Composite structures, Nonlinear theories of elasticity

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Dr. G. RAJASEKARAN  
Assistant Professor  
Department of Mechanical Engineering  
Email: graja@nitt.edu

**Research Interests:**  
Machine design, Mechanics of nanomaterials, Molecular dynamics, Atomistic modelling of nanomaterials, Nanocomposite materials, Vibration control

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Dr. SREEJITH MOHAN  
Assistant Professor  
Department of Mechanical Engineering  
Email: sreejith@nitt.edu

**Research Interests:**  
Particulate emission and control, Welding fume analysis, Green technology, Industrial Hygiene, Mathematical modelling and Finite element method, Biomechanics and Ergonomics, Nanocoating and Tribo-corrosion
Dr. NIVISH GEORGE
Assistant Professor
Department of Mechanical Engineering
Email: nivish@nitt.edu

Research Interests:
Functionally graded materials, Composite and nanocomposite materials, Sandwich structures, Magneto Electro Elastic materials, Finite element analysis

Dr. RAGHU RAM KARTHIK DESU
Assistant Professor
Department of Mechanical Engineering
Email: desu@nitt.edu

Research Interests:
Granular systems, Discrete Element Modelling, Predictive Modelling and optimisation (ANN, GA), Additive Manufacturing, High temperature material testing, Fusion
Department of Metallurgical and Materials Engineering

About the department

Year of Establishment: **1964**
Number of Faculty: **16**

Courses offered

**UG:** B. Tech (MME)
**PG:** M Tech (Welding Engineering)
M. Tech (Materials Science & Engineering)
Dr. T. SRINIVASA RAO
Professor HAG
Department of Metallurgical and Materials Engineering
Email: tsrao@nitt.edu
Mobile: +91-7893150786

Research Interests:
Powder metallurgy composites
Mechanical alloying

Facilities/Resources available for Industry & Educational consultancy:
Consultancy Expertise:

Dr. S. NATARAJAN
Professor HAG
Department of Metallurgical and Materials Engineering
Email: sn@nitt.edu
Mobile: +91-94860 01136

Research Interests:
Dr. V. MUTHUPANDI
Professor HAG
Department of Metallurgical and Materials Engineering
Email: vmuthu@nitt.edu
Mobile: +91- 9486001126

Research Interests:
Structure property correlation
Welding
Surface modification and corrosion
Dr. S. Raman Sankaranarayanan  
**Professor**  
Department of Metallurgical and Materials Engineering  
Email: raman@nitt.edu, slagdoctor@gmail.com  
Mobile: +91-9894702353; WA: 93 85 61 21 53

**Research Interests:**  
Process metallurgy; Process modeling; Quality management; Techno economic analysis of metallurgical industry

**Facilities/Resources available for Industry & Educational consultancy:**

**Areas:** Engineering Education, Steel industry, Process Metallurgy, Process Modeling, Fluxes, Slags, Mould powders, Utilization of Metallurgical wastes, Rare Earths, Economic aspects of metallurgical industry, Quality Management, Cost of Quality (CoQ)  
**Resources:** melting furnaces, thermodynamic software

**Consultancy Expertise:**

1. Very keen to work with the steel industry  
2. Very keen to work on synthesis of rare earth based speciality chemicals  
3. **Prior consulting experience** on quality improvement in foundry industry  
4. **Prior consulting experience** on breakouts and CoQ in continuous casting of steels  
5. **Prior consulting experience** on steel making slags in steel plants  
6. Prior industrial experience in fluxes, slags, continuous casting  
7. Very keen to offer tailor made training programmes for steel industry
Dr. S. KUMARAN
Professor
Department of Metallurgical and Materials Engineering
Email: kumara@nitt.edu
Mobile: +91-9944434705

Research Interests:
- Powder compaction and sintering
- Non-equilibrium materials (Nano Amorphous etc.,)
- Shape memory alloys, Mechanical alloying

Facilities/Resources available for Industry & Educational consultancy:
- Mathematical Tools

Dr. S.P. KUMARESH BABU
Professor
Department of Metallurgical and Materials Engineering
Email: babu@nitt.edu
Mobile: +91-9487438564

Research Interests:
- Metal Casting
- Welding
- Corrosion

Dr. B. RAVISANKAR
Professor
Department of Metallurgical and Materials Engineering
Email: brs@nitt.edu
Mobile: +91-9442505336

Research Interests:
- Mechanical behaviour and metal forming
Dr. S. MUTHUKUMARAN
Professor
Department of Metallurgical and Materials Engineering
Email: smuthu@nitt.edu
Mobile: +91- 9442069381

Research Interests:
- Welding
- Manufacturing
- NDT
- Materials Science

Dr. N. RAMESH BABU
Associate Professor
Department of Metallurgical and Materials Engineering
Email: nrb@nitt.edu, rameshrohith@gmail.com
Mobile: +91- 9944932221

Research Interests:
- Biomaterials, Ceramic Materials, Nanomaterials
- Nanostructured Processing (Plasma Electrolytic Processing, Microwave Processing, Spark Plasma Sintering)
Dr. KATAKAM SIVA PRASAD
Associate Professor
Department of Metallurgical and Materials Engineering
Email: ksp@nitt.edu
Mobile: +91-9444192278

Research Interests:
- Mechanical behaviour of materials
- Welding technology
- Materials Characterization
- Nanomaterials

Dr. S. JEROME
Assistant Professor
Department of Metallurgical and Materials Engineering
Email: jerome@nitt.edu
Mobile: +91-9443022544

Research Interests:
- Welding Processes
- Welding Metallurgy
- FEA in welding

Dr. D. NAGARAJAN
Assistant Professor
Department of Metallurgical and Materials Engineering
Email: nagarajand@nitt.edu
Mobile: +91-7639641307

Research Interests:
- Metal forming (bulk & sheet), Die-less forming process, Incremental sheet forming, Flow forming, Severe plastic deformation, Light alloys development and forming for aerospace and automotive applications, optimization of 3D optical measurement techniques
**Facilities/Resources available for Industry & Educational consultancy**
Non-contact 3D Laser Scanning System, Surface Roughness Tester (Taylor Hobson), Electrolytic Grid Printing Machine for FLC measurements, Erichsen Cupping Tester for formability measurements, Load cells (10 kN and 50 kN Universal Type), LVDT (100 mm and 300 mm stroke length), Data Acquisition System (For recording load, stroke and temperature), Electrolytic Polishing Machine, Metallography sample preparation unit (Hot mounting press, semi-automatic polishing machine, abrasive wheel cutting machine, low speed diamond cutter), Optical microscopes & Stereo microscope, Hydraulic press (80 Tons), Proving rings for load cell calibration (Compression type - 1000 kN & Tension type - 100 kN)

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**Dr. V. KARTHIK**
**Assistant Professor**
Department of Metallurgical and Materials Engineering  
Email: karthikv.gce@gmail.com  
Mobile: +91- 9788444987

**Research Interests:**
Simulation

---

**Dr. NIMU CHAND REGER**
**Assistant Professor**
Department of Metallurgical and Materials Engineering  
Email: nimu@nitt.edu

**Research Interests:**
Biomaterials, Surface coating, Heat Treatments
Dr. A. MUTHUCHAMY  
**Assistant Professor**  
Department of Metallurgical and Materials Engineering  
Email: muthuchamy@nitt.edu  

**Research Interests:**  
Metal joining, Metal matrix composites, Welding metallurgy, Phase transformation

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Dr. PRINCE GIDEON KUBENDRAN AMOS  
**Assistant Professor**  
Department of Metallurgical and Materials Engineering  
Email: prince@nitt.edu  

**Research Interests:**  
Phase field modelling and simulation, Microstructure stability, Computational Material Science
Department of Physics

About the department

Year of Establishment: 1964
Number of Faculty: 17

Courses offered

PG: M.Sc (Physics), M.Tech (NDT), M.S (NDT)
Ph.D
Dr. D. SASTIKUMAR  
Professor HAG  
Department of Physics  
Email: sasti@nitt.edu  
Mobile: +91-9488600672

Research Interests:
Fiber optics Sensors,  
Laser Materials Processing

Facilities/Resources available for Industry & Educational consultancy:

1. Nd: YAG Laser
(JPRO-230-10 Spectra Physics) Used as a high power source

2. INFRARED THERMOGRAPHY CAMERA
SC 7500/ (FLIR - AUTOMATION TECHNOLOGY)  
To analyze the heat transfer in the sample in an image form.
Dr A. CHANDRA BOSE  
Professor  
Department of Physics  
Email: acbose@nitt.edu  
Mobile: +91-9444065746

Research Interests:
Nanomaterials
Photocatalysis
supercapacitor
Energy harvesting materials

Facilities/Resources available for Industry & Educational consultancy:

1. **HR TEM (Tecnai G230S-TWIN)**
   To analyze the surface morphology of the samples

2. **Cyclic Voltameter (Biologic 150)**
   To study the electrochemical properties of the samples

3. **Impedance analyser (Solartron 1260)**
   To measure the impedance of the sample
Dr. J. HEMALATHA  
**Professor**  
Department of Physics  
Email: hemalatha@nitt.edu  
Mobile: +91-9600974565

**Research Interests:**  
Polymer Nanocomposites and Nanofluids

**Facilities/Resources available for Industry & Educational consultancy:**

1. **ATOMIC FORCE MICROSCOPE (PARK SYSTEMS NX10)**  
   - To study the topography of the samples  
   - To analyze the surface roughness of the samples  
   - To analyze the ferroelectric, magnetic response of the samples using advanced modes.

2. **MAGNETO RESISTANCE MEASUREMENT SETUP**  
   To analyze the magneto resistance of the sample for an applied magnetic field of 0.75 Tesla (Maximum field)
Dr. N. GOPALAKRISHNAN
Professor
Department of Physics
Email: ngk@nitt.edu
Mobile: +91-9894914905

Research Interests:
Thin films, Nanomaterials,
Spintronics, Gas sensing and
Water purification

Facilities/Resources available for Industry & Educational consultancy:

Low Temperature Photoluminesence (LTPL) (HORIBA-I)
To study the photoluminescence properties of the samples

Dr. N.V. GIRIDHARAN
Associate Professor
Department of Physics
Email: giri@nitt.edu
Mobile: +91-9443689391

Research Interests:
Ferroelectrics and Multiferroics, Bulk and Thin films

Facilities/Resources available for Industry & Educational consultancy:

Precision Multiferroic Tester (Radiant Technologies Inc. USA)
To study Ferroelectric, piezoelectric, magneto-capacitance properties of Specimens
Dr. M. ASHOK
Professor
Department of Physics
Email: ashokm@nitt.edu
Mobile: +91-9486067408

Research Interests:
Biomaterial, Photo catalysis, Material Science

Facilities/Resources available for Industry & Educational consultancy:

1. FTIR (Fourier Transform-Infra Red) Spectrometer
   (Thermo Scientific Nicolet iS5)
   To detect the range of function group present in the sample

2. UV- Visible Spectrometer (UV 1700)
   Used for the quantitative determination of the materials in the sample.

3. Raman spectrometer (Enspectra R532)
   To verify the crystallinity of the samples
   To study the electronic transition of elements

4. Cyclic voltammetry (Palmsens3)
   To study the electrochemical properties of an analyte in solution
5. **Solar simulator (lamp only) [Oriel LCS-100 small area Sol1A]**
   To excite the excitons in the sample with the solar radiation

6. **Ultrasonic Processor (Model no: VC 505)**
   Used for nanoparticle dispersion, homogenous dispersion

7. **Photocatalysis set-up**
   To check the photodegradation of the contaminant with the

8. **C-scan**
   To examine the defect in the material

9. ** Olympus OmniScan SX**
   To detect and analyse the flaws in NDT components
Dr. SANTHOSH KUMAR M.C.
Associate Professor
Department of Physics
Email: santhoshmc@nitt.edu
Mobile: +91-9443843014

Research Interests:
Thin Films, Photovoltaics
Nanomaterials and NDT

Facilities/Resources available for Industry & Educational consultancy:

1. **UV-vis-NIR Spectrometer (Jasco V670)**
   
   To study the absorbance, transmittance and diffuse reflectance of the samples

2. **Spectroflourimeter (Jasco FP8500)**
   
   To determine the organic compounds present in the sample

3. **Hall effect measurement system (ECOPIA HMS5000)**
   
   To measure the carrier concentration of the samples

Consultancy Expertise:

Optical and Electrical characterization of thin films and coatings
Dr. B. KARTHIKEYAN
Associate Professor
Department of Physics
Email: bkarthik@nitt.edu
Mobile: +91-9994372825

Research Interests:
NanoPhotonics - Nonlinear Optics and
Raman Spectroscopy

Facilities/Resources available for Industry & Educational consultancy:

1. LabRam HR Evolution Micro Raman Spectrometer
   LabRam HR Evo Model : 356399
   To analyze the structural fingerprint by which molecules can be identified

2. Time Resolved Fluorescence Spectrometer
   Model Delta Flex-01-NL TCSPC
   To record fluorescence decay via Time-Correlated Single Photon Counting

3. Nd-YAG Laser (Second Harmonic Generation Quanta-RayINDI)
   To analyze SHG efficiency through an acousto-optic Q-switching

4. Fluorescence Spectrometer
   [FluoroMax-4 Spectroflurometer (Horiba Scientific)]
   To analyze the fluorescence property of a sample through concentration of an analyte.
Facilities/Resources available for Industry & Educational consultancy:

1. **Liquid Nitrogen plant (NL-280)**
   To obtain high purity liquefied nitrogen

2. **Vibrating Sample Magnetometer (Lakeshore 7404)**
   To analyze the magnetic nature of the samples

3. **Thermogravimetric analyzer (EXSTAR TG/DTA 620)**
   To analyze the thermal stability of the samples

Consultancy Expertise:

Soft and hard magnetic materials, nanomagnetic particles, metal and alloy powders through chemical synthesis, applications and processing of magnetic materials
Dr. S. MANIVANNAN  
Associate Professor  
Department of Physics  
Email: ksmani@nitt.edu  
Mobile: +91-9629505060

Research Interests:  
Carbon Nanotubes, Nonlinear Optical Materials,  
Transparent Conducting Films, Polymer nanocomposites

Facilities/Resources available for Industry & Educational consultancy:

1. **LCR Hi-TESTER**  
   (*HIOKI 3532-50*)  
   To measure the inductance, capacitance, and resistance of a circuit.

2. **SOURCE MEASUREMENT UNIT**  
   (*KEITHLEY 2450*)  
   To analyze voltage and/or current by Sourcing and measuring at the same Time

3. **DIODE LASER**  
   (*VORTTRAN LASER TECHNOLOGY, INC.*)  
   To analyze the optical and electrical properties of semiconductor
Dr. R. NAGALAKSHMI
Associate Professor
Department of Physics
Email: nagalakshmi@nitt.edu

Research Interests:
Nonlinear optical materials, Vibrational Spectroscopy, Magnetism and Superconductivity at low temperatures, Single crystal growth of rare earth intermetallics

Dr. ANnapureddy Venkateshwarlu
Assistant Professor
Department of Physics
Email: annp@nitt.edu

Research Interests:
Flexible energy harvesters, Smart actuators & sensors, Photostrictive materials, Nano-structured materials

Dr. T. Sonamani Singh
Assistant Professor
Department of Physics
Email: takhel@nitt.edu

Research Interests:
Microswimmers, Microbotics, Swarm Dynamics, Electronic nose (E-nose), Swarm Intelligence, Artificial Neural network
Dr. SOMNATH MUKHOPADHYAY
Assistant Professor
Department of Physics
Email: somnath@nitt.edu

Research Interests:
Theoretical astrophysics, Compact stars, Gravitational waves

Dr. VENKATA SURYANARAYANA MUMMIDI
Assistant Professor
Department of Physics
Email: venkata@nitt.edu

Research Interests:
Theoretical High energy Physics
Department of Production Engineering

About the department

Year of Establishment: **1983**
Number of Faculty : **18**

Courses offered

UG:  - B. Tech (Production Engineering)
PG :- M. Tech (Manufacturing Technology)
      M. Tech (Industrial Engineering & Management)
Ph.D& M.S (by research)
Dr. P. ASOKAN  
Professor HAG  
Department of Production Engineering  
Email: asokan@nitt.edu  
Mobile: +91-9443112380

Research Interests:  
Supply Chain Management,  
Distribution Network Design,  
Optimization in Manufacturing, Operation Management

Facilities/Resources available for Industry & Educational consultancy:  
Retrofit Kit, Triac CNC Machine, HMT STC-15,  
Dynamometer, Leadwell CNC Machine,  
Vertical Machining CNC

Dr. S. KUMANAN  
Professor HAG  
Department of Production Engineering  
Email: kumanan@nitt.edu  
Mobile: +91-94895 53835

Research Interests:  
Intelligent Manufacturing, Modelling, Simulation and Optimization in manufacturing, Supply Chain Management.

Facilities/Resources available for Industry & Educational consultancy:  
In charge of Intelligent Manufacturing Lab, Data analytics lab and OM Lab.
Dr.-Ing. M. DURAISELVAM
Professor
Department of Production Engineering
Email: durai@nitt.edu
Mobile: +91-9994373486

Research Interests:
Laser surface Engineering, Micromachining, Tribology,
Additive Manufacturing, Product Engineering, Digital
Manufacturing

Facilities/Resources available for Industry & Educational consultancy:
3D metal printer, laser shock peening system, Laser materials processing workstation,
Femtosecond laser micromachining system, high temperature indentation tester, pin-on-disc tribometer, roller-on-roller tribometer, inverted pin-on-disc, surface roughness tester, white-light interferometer, scratch tester, ultrasonic flaw detector.

Consultancy Expertise:
Metal additive manufacturing, Laser based cutting, welding, surface treatments and drilling, laser surface texturing, innovative product design, digital manufacturing and all kinds of tribo-characterization

Dr. P. SATHIYA
Professor
Department of Production Engineering
Email: psathiya@nitt.edu
Mobile: +91-94434 94090

Research Interests:
Facilities/Resources available for Industry & Educational consultancy:


Consultancy Expertise:
Sample preparation & Microstructure, Corrosion, Heat treatment,

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Dr. R. JEYAPAUL
Professor
Department of Production Engineering
Email: jeyapaul@nitt.edu
Mobile: +91-9444290049

Research Interests:
Optimization Techniques
Taguchi Methodology

Facilities/Resources available for Industry & Educational consultancy:

Vibration Analysis Tool, and Ergo Master, GAMS Software, Systat Software, ILOG CPLEX and
Systat 12

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Dr. C. SATHIYA NARAYANAN
Associate Professor
Department of Production Engineering
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Mobile: +91-8056615876
Dr. P. SENTHIL  
**Associate Professor**  
Department of Production Engineering  
Email: senthil@nitt.edu  
Mobile: +91-9843710101

**Research Interests:**  
Rapid Manufacturing, Machining of Metal Matrix Composites, Modeling and Optimization of Manufacturing Processes, Computer Aided Design

**Facilities/Resources available for Industry & Educational consultancy:**
Dynamometer, Leadwell CNC turning centre, Vertical Machining centre, Trainer CNC, FDM machine, Vickers Micro Hardness Tester, surface roughness tester and polymer impact testing machine.

Dr. S. PRASANNA VENKATESAN
Associate Professor
Department of Production Engineering
Email: prasanna@nitt.edu
Mobile: +91-9345120537

Research Interests:
E-waste assessment, refurbishing
Health care logistics
Supply chain risk management
Manufacturing system simulation

Facilities/Resources available for Industry & Educational consultancy:
State of the art softwares for modeling, optimization and simulation GAMS, Flexsim, Witness etc.,

Consultancy Expertise:
SERB-DST sponsored research project on e-waste
Dr. K. PANNEERSELVAM
Associate Professor
Department of Production Engineering
Email: kps@nitt.edu
Mobile: +91-9952842776

Research Interests:
Advance Manufacturing Process, Composite Material processing, Modelling and Optimization of Manufacturing process.

Facilities/Resources available for Industry & Educational consultancy:
- Twin Screw Extruder plant
- Injection Moulding Machine and Compression Moulding Machine
- 3d Printer
- Computerized Tensometer and Impact Testing Machine, Ultra-Sonic Bath,
- Melt Flow Index Tester,
- Hot Air Oven,
- Butt Fusion Welding machine and Density Testing Equipment
- Hydraulic, Pneumatic, Electro Pneumatic, Electro Hydraulic circuit simulation Software with hardware kits

Consultancy Expertise:
Development of new Polymer composite material manufacturing and Characterization.
Polymer and Polymer composite product manufacturing
Dr. P. PARTHIBAN  
**Associate Professor**  
Department of Production Engineering  
Email: parthiban@nitt.edu  
Mobile: +91-9443430246  

**Research Interests:**  
Logistics and Supply Chain Management,  

**Facilities/Resources available for Industry & Educational consultancy:**  
SCM Guru Software, ILOG C Plex, Softwares for modeling and optimization, ERP softwares

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Dr. J. JERALD  
**Associate Professor**  
Department of Production Engineering  
Email: jerald@nitt.edu  
Mobile: +91-94425 30103  

**Research Interests:**  
Micro/Nano machining, Flexible manufacturing Systems, Optimization

**Facilities/Resources available for Industry & Educational consultancy:**  
Dr. V. Senthilkumar  
Associate Professor  
Department of Production Engineering  
Email: vskumar@nitt.edu  
Mobile: +91-9500403991

**Research Interests:**
- Metal matrix composites Modelling and simulation,  
- Powder metallurgy,  
- Impact studies & Crashworthiness of armour steels  
- Mechanics of Composite Materials

**Facilities/Resources available for Industry & Educational consultancy:**

Servo Controlled Hot Deformation Testing Facility, Planetary Ball Mill, Cryogenic Milling Facility, COMSOL Software, DEFORM 3D Software and Cryogenic Cooling system for material processing.

**Consultancy Expertise:**

- Development of high strength metal matrix composite for coating/structural applications  
- Development of Processing Map for high strength alloys and composites  
- Blast/Crash worthiness of high strength and armour grade materials  
- Design and analysis of light weight sandwich structures
Dr. V. ANANDAKRISHNAN
Associate Professor
Department of Production Engineering
Email: krishna@nitt.edu
Mobile: +91-98421 67599

Research Interests:
Engineering Graphics and Drafting,
Engineering Mechanics, Machine Drawing,
Theory of Machines, Metal Forming

Facilities/Resources available for Industry & Educational consultancy:
Metrology labs: Optical Microscope, IR Thermometer, etc.

Dr. S. VINODH
Associate Professor
Department of Production Engineering
Email: vinodh@nitt.edu
Mobile: +91-9952709119

Research Interests:
Lean Manufacturing
Sustainable Manufacturing
Product Development
Rapid Manufacturing

Facilities/Resources available for Industry & Educational consultancy:
3D Printer – Prototype development
Product development
Lean tools/techniques deployment

Dr. D. LENIN SINGARAVELU
Associate Professor
Department of Production Engineering
Email: dlenin@nitt.edu
Mobile: +91-9487069811

Research Interests:
Brake Friction Materials, Tribology, Non-conventional Machining, Shape Memory Alloys, Processing of Polymers, Joining of Advanced Materials and Composites

Facilities/Resources available for Industry & Educational consultancy:
Dr. V. SATHEESHKUMAR
Assistant Professor
Department of Production Engineering
Email: satheeshv@nitt.edu
Mobile: +91-9952648848

Research Interests:
Materials Joining and forming,
Adhesives and polymers, sandwich sheets,
light weight materials development

Dr. T. JAGADESH
Assistant Professor
Department of Production Engineering
Email: jagadesh@nitt.edu
Mobile: +91-9080746066

Research Interests:
Micro manufacturing, Metrology, Precision machining,
Additive manufacturing, Laser based manufacturing,
Finite element simulations, Design of machine tool,
Composites, Tribology, Cryogenics
Consultancy Expertise:

- Micro manufacturing
- Metrology
- Precision machining
- Laser based manufacturing
- Additive manufacturing
- Finite element simulations
- Composites
- Cryogenics

Dr. VASU. M  
**Assistant Professor**  
Department of Production Engineering  
Email: mvasu@nitt.edu  
Mobile: +91- 9611604276

**Research Interests:**  
Machinability Studies and Optimization technique.

Dr. MATRUPRASAD ROUT  
**Assistant Professor**  
Department of Production Engineering  
Email: martuprasad@nitt.edu

**Research Interests:**  
Metal forming, High-temperature deformation, Recrystallization, FE modelling of bulk metal forming process
Dr. VINEET KUMAR YADAV
Assistant Professor
Department of Production Engineering
Email: vineet@nitt.edu

Research Interests:
Advanced manufacturing process, Hybrid machining process, Micro-machining, Laser beam machining

Dr. PRAKASH KUMAR
Assistant Professor
Department of Production Engineering
Email: prakashkumar@nitt.edu

Research Interests:
Machine Design, Nonlinear dynamics, Vibration

Dr. SANTOSH KUMAR MISHRA
Assistant Professor
Department of Production Engineering
Email: santosh@nitt.edu

Research Interests:
Hydraulics, Hydrostatic Transmission system, Fault diagnosis, Solar power system with nanomaterials