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

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 ProfessorDepartment 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

History of Architecture, Graphic design, Architectural design

Facilities/Resources available for Industry & Educational consultancy:



Dr. A. MEENATCHI SUNDARAMAssociate 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. PREMKUMARAssociate Professor
Department of Architecture
Email: kprem@nitt.edu

Architectural Psychology, Architectural Criticism, Impact of physical setting on pro social behaviour

Facilities/Resources available for Industry & Educational consultancy:



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 buliding



Dr. L. SAIKALAAssociate Professor
Department of Architecture
Email: saikala@nitt.edu

Structural analysis, Concrete Technology



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

Research Interests:

Energy, Sustainable Architecture, Urban design, Conservation, Cost effective construction techniques, Building services

Facilities/Resources available for Industry & Educational consultancy:



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. GOPALAKRISHNANAssistant Professor
Department of Architecture
Email: gopal@nitt.edu

Architectural Design, Architectural Graphics, Urban Design, Computer Application in Architecture

Facilities/Resources available for Industry & Educational consultancy:



Dr. D. KANNAMMAAssistant 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. SANGEETHAAssistant Professor
Department of Architecture
Email: gsangs@nitt.edu

Building of Technology and Construction Management



Ar. AMALAN SIGMUND KAUSHIKAssistant 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

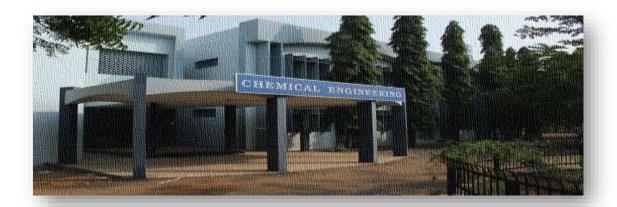
UG: B.Tech(Chemical Engineering)

PG:

M.Tech (Chemical Engg)

M.Tech (ProcessControl 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



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

<u>Consultancy Expertise:</u>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. KALAICHELVIProfessorDepartment 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 Spectroqunat 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.



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

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 facilitities, 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.
- **2.** Process design for wastewater treatment.



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 ProfessorDepartment 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 ProfessorDepartment 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



Dr. JYOTI SAHU Assistant ProfessorDepartment 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 ProfessorDepartment 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



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)

Department of Chemistry





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



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:

Nanomaterials, Sonochemistry, Photocatalysis, Dyesensitized solar cells, Organic solar cells, Electrochemical & Fluorescence Sensors, Supercapacitors, Fuel Cell catalysts, Biomolecule interaction studies.

Facilities/Resources available for Industry & Educational consultancy:

HPLC (Waters, USA)

QE Measurments (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 ProfessorDepartment 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 ProfessorDepartment of Chemistry
Email: velmathis@nitt.edu
Mobile: +91-9486067404

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

Research Interests:

Mobile: +91-9443843076

Electrochemical Sensors, Ionic Liquids, Solid Phase Extraction and Luminescence technology

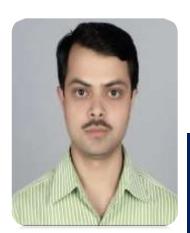
Facilities/Resources available for Industry & Educational consultancy:

Luminescence Spectrometer
Atomic Absorption Spectrometer
UV-visible Spectrophotometer



Dr. A. SREEKANTH
Associate Professor
Department of Chemistry
Email: sreekanth@nitt.edu
Mobile: +91-9443843076

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 ProfessorDepartment of Chemistry
Email: ssarkar@nitt.edu
Mobile: +91-9153484492

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)



Dr. SARTHAK MANDAL Assistant ProfessorDepartment 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:

Department of Civil Engineering

About the department

Year of Establishment :1964 Number of Faculty : 26

Courses offered

 $\textbf{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

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



Dr. P. JAYABALAN ProfessorDepartment 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 ProfessorDepartment of Civil Engineering
Email: stramesh@nitt.edu

Mobile: +91-9444211585

Research Interests:

Water and wastewater treatment, Water and Air Quality Modeling, Waste Management, Environmental Systems Analysis, Risk Assessment, City Water Planning and Analysis, Environmental Impact Assessment.

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:

Characterization of Drinking water, Characterization of Wastewater, Characterization of Industrial Effluent, Soil Characterization, Sludge Analysis, Waste Characterization, Ultimate and Proximate Analysis, Ambient Air quality survey, Indoor Air quality Monitoring, Stack Monitoring, Noise Monitoring, Environmental Impact Assessment / Environmental Management Plan Study, Risk Analysis and Assessment, Feasibility study, Exploration of Treatment options, Preparation of DPR for municipal solid waste management, water and wastewater treatment plant, Water and Wastewater audit for Industries, Environmental awareness training for industries



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.



Dr. NISHA RADHAKRISHNAN Associate Professor

Department of Civil Engineering

Email: nisha@nitt.edu Mobile: +91-9843260869

Research Interests:

Global Positioning System, Remote Sensing, Geographic Information System, Surveying, Advanced Surveying Techniques, Urban Planning Assessment

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 resisatnce, etc.

Road Safety Audit



Dr. R. MANJULA Assistant ProfessorDepartment 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. DEENDAYAL 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 ProfessorDepartment 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 ProfessorDepartment 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 ProfessorDepartment 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 ProfessorDepartment of Civil Engineering

Research Interests:

Email: smas@nitt.edu

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



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

Research Interests:

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



Dr. Greegar George Assistant ProfessorDepartment 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

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

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. Viswanathanlyer ProfessorDepartment of Computer Science and Engineering Email: kvi@nitt.edu





Dr. N. RAMASUBRAMANIAN ProfessorDepartment 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

Email: msb@nitt.edu Mobile: +91-9442970006

Research Interests:

Operating Systems, Distributed Systems, Grid Computing, Cloud and Fog Computing, Network Security

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

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

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

Email: shameedha@nitt.edu

Mobile: +91-

Research Interests:

Computer System & Architecture, Embedded Systems, Micro processor real time systems



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

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



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

Research Interests:

Text steganography, Information security, Network protocols, Android applications, Machine Learning



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



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

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. BALASUNDARAMProfessorDepartment 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 ProfessorDepartment 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

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.

<u>Consultancy Expertise:</u> Machine and Deep Learning Algorithms can be developed for the problems in question and implemented.



Dr. S. DOMNIC Associate Professor

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

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

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 Appli

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 ProfessorDepartment 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

Research Interests:

Mobile: +91-9894768765

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



Mobile: +91-9952892216

Research Interests:

Microwave Antennas Metamaterial

Facilities/Resources available for Industry & Educational consultancy:

- Antenna Simulation software
- Antenna Prototyping Machine
- Network Analyzer
- Anechoic box



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, OPTSIM 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 crystalbased 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 De soldering 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 ProfessorDepartment 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 ProfessorDepartment of ECE
Email: varun@nitt.edu

Research Interests:

IoT in healthcare, Signal processing, Medical image processing, Artificial Intelligence, Compressed sensing, Circuits & SystemsS



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 ProfessorDepartment of ECE
Email: hemant@nitt.edu

Research Interests:

Antennas, Microwave passive circuits, Radar, Microwave/Millimetre-wave imaging



Dr. P. MAHESWARAN Assistant ProfessorDepartment of ECE

Email: mahes@nitt.edu Mobile: +91- 9884111807

Research Interests:

Wireless Communication
Signal Processing
Cooperative Communication
MIMO Communication System
Index Modulation
Spatial Modulation

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

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



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)

Email: daniel@nitt.edu, saruldaniel@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



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

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

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

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.



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

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 systemsConsultancy 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

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

Email: josephinerl@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

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

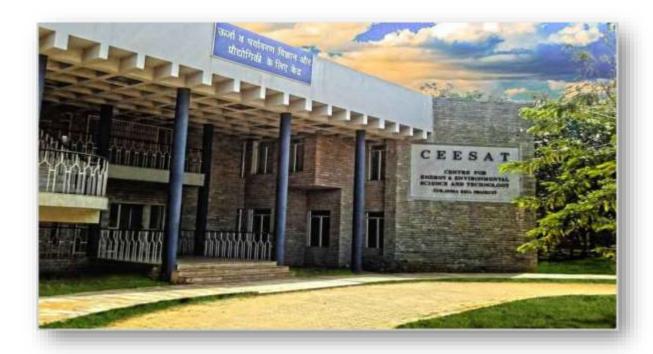
About the department

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 phycoremediation.

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 - 9710829732

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 ProfessorDepartment 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



Dr. V. K. KARTHIKA Assistant ProfessorDepartment 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



Dr. M. PADMAJA Assistant ProfessorDepartment 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 ProfessorDepartment 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

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:

Mathematical Control Theory, Complexity, Algorithms, Robotics, Cyber-Physical Systems.

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 cyberphysical systems, network security, software development.
- Recently I have successfully completed a MeITy/ITRA funded project "Decongesting 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:

MEMS, Sensors and Actuators, Instrumentation System Design, Energy Harvesting, Biomedical Instrumentation, Process Control

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

<u>Consultancy Expertise:</u> 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.

Emergency Response Support System for Critical care Diagnostics.

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: narayanan@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.



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.



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 HAGDepartment of Mathematics
Email: rpalagu@nitt.edu
Mobile: +91-7402448889

Computational Bio-fluid Mechanics

Facilities/Resources available for Industry & Educational consultancy:

Mathematical Tools



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:



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 ProfessorDepartment 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 ProfessorDepartment 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



Dr. V. LAKSHMANA GOMATHI NAYAGAM Associate Professor

Department of Mathematics Email: velulakshmanan@nitt.edu

Mobile: +91-9443881718

Research Interests:

Fuzzy Mathematics: Theory and Modelling

Facilities/Resources available for Industry & Educational consultancy:



Dr. V. SHANTHI Associate ProfessorDepartment of Mathematics
Email: vshanthi@nitt.edu
Mobile: +91-9487440341

Numerical Analysis for Differential equations

Facilities/Resources available for Industry & Educational consultancy:



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

Research Interests:

Linear Algebra Optimization



Dr. N. PRAKASH Assistant ProfessorDepartment of Mathematics
Email: prakashn@nitt.edu
Mobile: +91-7845688072

Functional Analysis
Best Approximation Theory
Geometry of Banach Spaces



Dr. JITRAJ SAHA Assistant ProfessorDepartment 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 ProfessorDepartment of Mathematics
Email: atul@nitt.edu

Research Interests:

Mathematical Modelling of stochastic transport systems, discrete Markov model



Dr. M. SIVANESAN Assistant ProfessorDepartment of Mathematics
Email: sivanesan@nitt.edu

Differential and Integral Equations, Wave-structure interactions



Dr. ABHIJIT DAS Assistant ProfessorDepartment 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



Dr. M. PUNNIYAMURTHY Professor (HAG)

Department of Management Studies

Email: punniya@nitt.edu

Mobile: +91-94860 01130, +91-9443866660

Research Interests:

Machine Learning, Game Theory, Applied Statistics & Data Analysis, Operations Management, Project Management and Costing, Logistics and Supply Chain Management, Operations Research & Decision Sciences and Materials Management

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



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 ProfessorDepartment 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 ProfessorDepartment of Management Studies
Email: shobitha@nitt.edu

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 ProfessorDepartment of Management Studies
Email: malolan@nitt.edu

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 ProfessorDepartment 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 ProfessorDepartment of Management Studies
Email: mmanju@nitt.edu

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:

Financial Management, Stock market, International Economics, Financial Modeling & Research Methodology

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. SHANMUGAMProfessor (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

Vaccum 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 ProfessorDepartment 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



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

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 ProfessorDepartment of Mechanical Engineering Email: hameed@nitt.edu

Vapor absorption refrigeration, Alternate refrigeration



Dr. R. ANAND Associate Professor

Department of Mechanical Engineering

Email: anandachu@nitt.edu Mobile: +91-94448 38909

Research Interests:

Fuels and combustion, Internal Combustion Engines, Alternative Fuels, Waste to Energy Conversion, Solar fuels, Fuel Cells.

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: arulmozhi@nitt.edu

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 ProfessorDepartment of Mechanical Engineering Email: krbala@nitt.edu

Research Interests:

Mobile: +91-94435 61873

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 ProfessorDepartment of Mechanical Engineering Email: vmaris@nitt.edu

Thermodynamics, Refrigeration & Air conditioning, Computational Fluid dynamics



Dr. T. RAMESH Associate ProfessorDepartment 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 ProfessorDepartment 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 ProfessorDepartment 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 ProfessorDepartment 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

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



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

Research Interests:

Machine design, Mechanics of nanomaterials, Molecular dynamics, Atomistic modelling of nanomaterials, Nanocomposite materials, Vibration control



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 GEORGEAssistant 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 DESUAssistant 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

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:

Corrosion Engg, Surface Engg, Tribology and allied areas pertinent to Agriculture, Aerospace, Automobile, Mining, Power, Petrochemical, Process, and Textile industries.



Dr. V. MUTHUPANDI Professor HAG

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:

<u>Areas</u>: 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

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

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

Mahilar +01 0044020001

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

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 techiques

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 - 1000 kN)



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 ProfessorDepartment of Metallurgical and Materials Engineering

muthuchamy@nitt.edu

Research Interests:

Email:

Metal joining, Metal matrix composites, Welding metallurgy, Phase transformation



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 MEASUREMENTSETUP

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 Photoluminesecnce (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 ProfessorDepartment 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 sample.



3. Raman spectrometer (Enspectra R532)

To verify the crytallanity of the samples

To study the electronic transition of elements



4. Cyclic voltammetry (Palmsens3)

To study the electrochemical properties of an analyte in





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. Spectroflourmeter (Jasco FP8500)

To determine the organic compounds present in the san



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.





Dr. R. JUSTIN JOSEYPHUS Associate Professor

Department of Physics Email: rjustinj@nitt.edu Mobile: +91-9952848153

Research Interests:

Magnetism and Magnetic Materials

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 ProfessorDepartment 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:

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 (VORTRAN LASER TECHNOLOGY, INC.)

To analyze the optical and electrical properties of semiconductor





Dr. R. NAGALAKSHMI Associate ProfessorDepartment 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 ProfessorDepartment of Physics
Email: annp@nitt.edu

Research Interests:

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



Dr. T. SONAMANI SINGH Assistant ProfessorDepartment 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

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

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

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:

Welding Technology, Solid State Joining, Materials Behaviour subjected to Welding.

Facilities/Resources available for Industry & Educational consultancy:

Vickers Micro Hardness Tester, Abrasive Cutter, Belt Grinder, Comsol Multi Physics Software, Electro-chemical work station, Box Type Muffle Furnace, Optical Microscope, Broaching Machine, TIG and MIG welding.

Consultancy Expertise:

Sample preparation & Microstructure, Corrosion, Heat treatment,



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 C Plex and

Systat 12

Dr. C. SATHIYA NARAYANAN Associate Professor

Department of Production Engineering

Email: csathiya@nitt.edu Mobile: +91-8056615876



Research Interests:Sheet metal forming, EDM

Facilities/Resources available for Industry & Educational consultancy:

Universal Milling Machine, HMT Lathe, Electrochemical Machine, Drilling Tool Dynamometer, Lathe Tool Dynamometer, Grinding Tool Dynamometer, Milling Tool Dynamometer and Digital Tool Tip Temperature Indicator



Dr. P. SENTHIL Associate ProfessorDepartment 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

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

Email: parthiban@nitt.edu Mobile: +91-9443430246

Research Interests:

Logistics and Supply Chain Management, Operations Research, Production and Operations Management, Enterprise Resource Planning.

Facilities/Resources available for Industry & Educational consultancy:

SCM Guru Software, ILOG C Plex, Softwares for modeling and optimization, ERP softwares



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:

High Precision Multi Process Machine, Surface Grinding Machine and Co-ordinate Measuring Machine



Dr. V. SENTHILKUMAR
Associate Professor

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

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:

Rotational Molding Machine, Manual Preform Press, Weighing Balance with density apparatus and Plough Shear Mixing Machine



Dr. V. SATHEESHKUMAR Assistant Professor

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 ProfessorDepartment 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 ProfessorDepartment of Production Engineering Email: vineet@nitt.edu

Research Interests:

Advanced manufacturing process, Hybrid machining process, Micro-machining, Laser beam machining



Dr. PRAKASH KUMAR Assistant ProfessorDepartment 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