



**ACADEMIC OFFICE**  
**NATIONAL INSTITUTE OF TECHNOLOGY**  
**TIRUCHIRAPPALLI - 620 015, TAMIL NADU, INDIA**

**List of Eligible Students\_Ph.D., MS (by Research)\_Convocation 2024**

**1.0 DOCTOR OF PHILOSOPHY (Ph.D.)**

**Department of Architecture**

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. Srinivas Tadepalli <b>Co-Guide:</b> Dr. Padmanaban Gopalakrishnan	401115053 03-Apr-2024	MOHD FAHEEM	Thermal Comfort and Adaptive Behavior in Hostels of Warm and Humid Region, India
2.	Dr. K. Thirumaran	401118002 24-May-2024	MARLIYA K	Framing Strategies to Optimize the Residential Building Envelope to Enhance the Thermal Performance for the Warm Humid Climate of Tiruchirappalli Region, Tamil Nadu, India
3.	Dr. P. Gopalakrishnan	401119001 24-Jul-2024	CHITTELLA RAVI CHANDRAN	A Numerical Simulation Approach to Quantify the Impact of Building Geometry Variables on Cooling Loads of Indian Residences, a Case of Navi Mumbai

**Department of Chemical Engineering**

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. A Arunagiri	402115051 29-Jul-2024	YASVANTHRAJAN N	Studies on Intensification of Enzymatic Transesterification of Waste Cottonseed Oil for the Production of Biodiesel
2.	Dr. T. Sivasankar	402115054 19-Jun-2024	MANISH KUMAR	Extraction of Value-Added Chemicals from Plant Leaf Waste using Sonochemical Method
3.		402118052 14-Mar-2024	KALIDASS J	Sonoelectrochemically Fabricated Nanoarchitectonic Iron Oxide Nanocomposites as an Anode for Lithium-Ion Battery Application
4.	Dr. P. Kalaichelvi <b>Co-Guide</b> Dr. T.K. Radhakrishnan	402118003 08-Feb-2024	DHAYANANTH N	Crystallization Studies on Solubility Enhancement of Chlorzoxazone
5.	Dr. G. Arthanareeswaran	402118051 22-Mar-2024	GOKULA KRISHNAN S A	Advanced Strategy on Evacuation of Antibiotics and Pesticides from Wastewater using Surface Enhanced Bismuth based Photocatalytic Hybrid Membranes

6.	Dr. P. Sivashanmugam	402119004 12-Apr-2024	SUNDARA MAHALINGAM M A	Bioremediation of Hydrolyzed Protein Waste Outpour from Food Flavourant Producing Industry using Innate Yeast Cells for the Development of Eco-Economical Products
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### Department of Chemistry

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. S. Anandan	404113054 19-Jan-2024	A ANANDABABU	Design and Synthesis of Modified Supramolecules for Sensor Applications
2.	Dr. S. Velmathi	404114054 06-May-2024	S PRABHAKARAN	One-Pot Multi Component Synthesis of Novel Heterocyclic Compounds and their In Vitro And In Silico Studies
3.	Dr. R. Karvembu	404117051 15-Apr-2024	ASWATHI RAVINDRAN N E	Ferrocene-Based Ruthenium(II)-Arene Catalytic Systems for Acceptorless Dehydrogenative Coupling Reactions
4.	Dr. Ganesh Chandra Nandi	404118005 15-May-2024	RAVINDRA S	Direct Synthesis of N-Functionalized Sulfonimidamides and Related Systems from Sulfonimidoyl/Sulfonyl Azides via Isocyanide Insertion/ C-N Cross Coupling Reaction
5.	Dr. A Sreekanth	404119004 28-May-2024	RASIN P V	Thiosemicarbazide and Pyrene Schiff Bases: Diverse Applications in Sensing, Forensics and Biology
6.		404119006 19-Jul-2024	VISHNUNARAYANAN NAMBOOTHIRI V P	Synthesis, Characterization, <i>In Silico</i> and <i>In Vitro</i> Anticancer Applications of Heterocyclic Thiosemicarbazones, Thiadiazoles, and Ru (II) -Arene Complexes
7.		404915051 07-Jun-2024	K CHANDRASEKAR	Pesticide Residues Quantification in Black Pepper, Chilli and Chilli Oleoresin by GC/MSMS

### Department of Civil Engineering

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. Deendayal Rathode  Co-Guide: Dr. K. Muthukkumaran	403117051 03-Apr-2024	KRISHNANUNNI K T	The Behaviour of Laterally Loaded Finned and Helical Piles Installed on a Sloping Ground
2.		403119001 29-Nov-2023	DEVAHI P	Sustainable Reuse Potential of Landfill Mining Waste Retrieved from Urban Mining Sites in South India

3.	Dr. R. Senthilkumar	403117052 12-Sep-2023	DIVYA M	Development of Shear Connectors for Cold-Formed Steel-Concrete Composite Beam
4.	Dr. S. Jayalekshmi	403117053 02-Apr-2024	ELAMATHI V	Studies on the Compressibility, Compaction and Shear Strength Parameters of Natural Clays with Varying Mineral Composition
5.	Dr. S. Saravanan	403118001 18-Apr-2024	ABIJITH D	Integrating Machine Learning and Multi- Criteria Analysis for Comprehensive Coastal Multi-Hazard Mapping along the Tamil Nadu Coast, India
6.		403120004 26-Feb-2024	NAGIREDDY MASTHAN REDDY	Understanding Climate Change Impacts on Streamflow in The Godavari Basin: Integrating Conceptual Models and Machine Learning using CMIP6 Data
7.	Dr. S T Ramesh <b>Co-Guide:</b> Dr. R. Gandhimathi	403118003 22-Jul-2024	PREETHI V	A Comprehensive Analysis of the Efficacy of Iron based Meshes and Iron Powder Layer in Oil-Water Separation
8.	Dr. Jeevan Joseph	403119051 25-Jul-2024	PRASANNA VENKATESH R	Experimental Investigations on Desiccation Induced Stress-Strain Characteristics of Clay
9.	Dr. Samson Mathew <b>Co-Guide:</b> Dr. Nisha Radhakrishnan	403915005 15-Jul-2024	SHAHEEM S	Integrated Approach for Increasing Public Transport Share in Medium-Size Cities
10.	Dr. S. Moses Santhakumar	403915006 15-Dec-2023	SOWJANYA	Evaluation of Driver Behaviour and Safety at Urban Mid-Block Sections under Mixed Traffic Conditions
11.	Dr. S. Marisamynathan	403919003 10-Oct-2023	MANIVEL M	Development of Electric Vehicles and Charging Facilities Adoption Models for Indian Conditions

### Department of Computer Applications

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. S.R. Balasundaram	405114052 07-Mar-2024	SHANTHI M	Generating Morpheme based Multiple Choice Questions using Machine Learning Models for Agglutinative Language
2.		405915004 10-May-2024	NARAYANAN S	Minimizing Errors in Air Traffic Speech Recognition using Rules and Data Driven Approaches
3.	Dr. S. Dominic	405118003 18-Dec-2023	SURESH TOMMANDRU	Person Identification and Verification in Low Illumination Images using Deep Learning-Based Approach

4.	Dr. Michael Arock	405118004 30-Apr-2024	VANKDOTH SRINIVASA RAO	Development of Deep Learning Frameworks for Object Detection and Flow Prediction in Traffic System
5.	Dr. R. Eswari <b>External Guide:</b> Dr. P. Syam Kumar	405118007 31-May-2024	MEDIKONDA ASHA KIRAN	Efficient and Secure Signcryption Schemes for Cloud-Assisted IOT
6.		405120002 18-Apr-2024	ADOUTHU VAMSHI NAIK	Secure Blockchain-Based Data Auditing Techniques for Cloud Storage
7.		405919001 25-Jul-2024	UMA S	Proactive Prevention of Driver Distraction and Fire Risk Analysis using IoT and Machine Learning
8.	Dr. Gangadharan G R	405120001 24-May-2024	ADARSH V	Navigating the Neural Nexus through Explainable Artificial Intelligence
9.	Dr. P J A. Alphonse	405914001 18-Mar-2024	ANANDARAJ A	Ensemble based Seizure Prediction using EEG Signals

### Department of Computer Science and Engineering

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. N. Ramasubramanian	406115001 28-Feb-2024	JOSHI AMIT DADARAO	Studies on Performance of Cache Coherence Protocols for Multicore Architectures
2.	Dr. R. Leela Velusamy	406116001 21-Feb-2024	SUGUNA P	A Study on Traffic Classification Models and Routing for Providing Quality of Service in Software Defined Network
3.		406117007 27-Dec-2023	JAYALEKSHMI S	A Study on Lifetime Enhancement of LR-WPAN using Mobile Data Collection Agent
4.	Dr. R. Mohan	406117001 09-Feb-2024	RANDIVE KRUNAL DHANRAJ	Novel Deep Learning Models for Insider Threat Detection using Image - Based Feature Representations
5.		406915052 26-Feb-2024	S S S N USHA DEVI N	Deep Learning Approaches for Stock Value Prediction and Portfolio Profit Maximisation
6.		406916001 10-Jul-2024	SHALINI R	Noise Suppression in Human Beings' Chest LDCT Scan Images using Deep Learning for Image Reconstruction Task
7.		406917053 26-Mar-2024	HARIHARAN R	Design of Novel Deep Learning Models for Diagnosis of Brain Tumor
8.	Dr. E. Sivasankar	406117002 19-Jan-2024	BALASUBRAMANIAN P	Design and Analysis of Content-Based Fake News Detection on Social Media using Deep Learning Techniques

9.		406320002 26-Jul-2024	RANI KOSHY	Social Media Analytics in Disaster Management: Enhancing Situational Awareness using Deep Learning Techniques
10.	Dr. Kunwar Singh	406117006 07-Mar-2024	LOHITH J J	Blockchain-Based Smart Contract Security: Frameworks for Vulnerability Detection and Credit Reporting
11.		406919001 06-Feb-2024	AMALAN JOSEPH ANTONY A	Study of Zero Knowledge Proof and Its Applications
12.	Dr. S. Jaya Nirmala	406118001 09-May-2024	AARTHI P	Enhancing Question Answering Systems using Textual Entailment: A Comprehensive Study and Performance Evaluation
13.	Dr. S. Mary Saira Bhanu <b>Co-Guide:</b> Dr. S. Nickolas	406118003 10-Apr-2024	K UMA MAHESWARI	Ensuring Data Integrity in Distributed Fog Environments
14.	Dr. M. Brindha	406118004 24-Jul-2024	SEKAR C	Investigations on IoT-Enabled Lightweight Image Encryption Algorithms for Industry, Healthcare, and Forensic Applications
15.		406119001 08-11-2023	C NANDHINI	Investigations on Human Perception Inspired Blind Image Quality Assessment with Deep Learning
16.		406917052 22-Dec-2023	MADAN KUMAR C	An Investigation on Efficient Authentication and Session Key Sharing Techniques against Security Attacks for Wireless Sensor Network Based Applications
17.		406918052 22-Jul-2024	MOHD SHARFUDDIN WASEEM	Text Detection and Recognition from Natural Scene Images using Deep Learning Principles
18.	Dr. B. Nithya	406118005 16-Nov-2023	SIRON ANITA SUSAN T	A Study on Contention and Congestion Management for On-Demand Multi-Node Charging in Wireless Rechargeable Sensor Networks
19.	Dr. Rajeswari Sridhar	406118053 07-Feb-2024	SELVAM D	Multi-Objective Metaheuristic Optimization Approach for VM Scheduling and Secure placement
20.	Dr. B Shameedha Begum <b>Co-Guide:</b> Dr. N. Ramasubramanian	406119003 26-Jul-2024	KANNADASAN K	An EEG-Based Study on Affective Computing Technologies: Decoding Emotions, Personality Traits and Emotional Intelligence
21.	Dr. M Sridevi	406119008 22-Jul-2024	DHANARAJ RACHEL SELVA	Novel Approaches to Passive Image Forgery Detection and

				Adversarial Attacks Investigation
22.		406918051 29-Jul-2024	BHARATHI A	Deep Learning Approaches for Human Action Recognition from Complex Videos
23.	Dr. Sai Krishna Mothku	406120003 03-Jun-2024	MEKALA RATNA RAJU	Design of Efficient Task Scheduling Algorithms for Vehicular Fog Networks

### Department of Electrical and Electronics Engineering

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. M Venkata Kirthiga <b>Co-Guide:</b> Dr. P Raja	407116002 10-Jul-2024	RAVULAKARI KALYAN	Certain Investigations on Power Control Techniques of Single-VSC Interfaced Wind Driven DFIG
2.	Dr. M. P. Selvan	407118002 05-Feb-2024	ARJUN VISAKH	Investigations on the Challenges and Opportunities with Residential Charging of Electric Vehicles
3.	Dr. Karthik Thirumala <b>Co-Guide:</b> Dr. Manoranjan Sahoo	407118004 26-Feb-2024	BUDHAVARAPU JAYAPRAKASH	Novel Power Quality-based Tariff Schemes and Smart Meter Development for Low Voltage Distribution Networks
4.	Dr. S. Mageshwari	407118006 25-Apr-2024	MALARVILI S	Design of Efficient Control Interaction with Power Converters for Photovoltaic Applications
5.	<b>Co-Guide:</b> Dr. S. Moorthi	407119011 10-Jan-2024	SINDHUJA S	Investigations on Design and Development of Improved Gain Non-Isolated SEPIC Converter
6.	Dr. S. Moorthi <b>Co-Guide:</b> Dr. P. Raja	407118007 09-11-2023	N NAGESWARA REDDY	Investigations on Various Fault Detection and Isolation Techniques for Low Voltage DC Microgrid
7.	Dr. R. L. Josephine <b>Co-Guide:</b> Dr. S. Moorthi	407118008 04-Jul-2024	RACHAPUTI BHANU PRAKASH	Energy Efficient Sensorless Control of Solar Photovoltaic Fed Induction Motor Drive for Water Pumping Systems
8.		407918001 26-Jul-2024	A MARY BEULA	Novel Intelligent and Optimization based MPPT Techniques for PV Systems
9.	Dr. Shelas Sathyan	407118010 05-Feb-2024	SUGALI HARINAIK	Design and Analysis of Quasi-Resonant Isolated High Gain DC/DC Converters for Low Voltage Renewable Energy Sources
10.		407120009 03-Jun-2024	SOFIYA S	Design of Three-Port Isolated Converters and its Analysis with

				Various Modulation Techniques for DC Microgrid Applications
11.	Dr. M. Jaya Bharata Reddy	407119001 11-Sep-2023	MARISELVAM A	A Novel Secure and Dependable Distance Protection Methodology Immune to Stressed Conditions
12.	Dr. Sundareswaran K <b>Co-Guide:</b> Dr. P Srinivasa Rao Nayak	407119004 19-Jan-2024	KANNAN M	Application and Analysis of Deep Neural Network Architectures towards State of Charge Estimation of Lithium-Ion Batteries
13.	<b>Co-Guide:</b> Dr. Shiraj P Simon	407917055 29-Nov-2023	GIREESH V PUTHUSSEERY	Development and Analysis of New and Modified Optimization Algorithms for Maximum PowerPoint Tracking in PV Systems under Partial Shaded Conditions
14.	Dr. S. Arul Daniel <b>Co-Guide:</b> Dr. P. Raja	407119008 03-Nov-2023	PADGHAN PAVAN RAMCHANDRA	Blockchain Based Cooperative Energy Trading Framework for Prosumer Communities: Business Process Models
15.	Dr. S. Sudha	407119014 20-Feb-2024	SHAMEEM ANSAR A	Certain Investigations on the Classification and Prediction of Landslides in the Idukki District using Geospatial and Machine Learning Techniques
16.	Dr. C. Nagamani	407916001 09-May-2024	CHANDRASEKAR V	Investigations on Gallium Nitride based Power Electronic Technologies for High Frequency Converter Applications
17.	Dr. S Senthil Kumar	407920053 29-Jul-2024	SHANMUGANATHAN U	Design and Development of Compact Variable Pulse Width Marx Generator for High Power Microwave Applications

### Department of Electronics and Communication Engineering

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. N. Gunavathi	408117003 06-Nov-2023	N PRAVEENA	Design and Analysis of Wideband and Narrowband Substrate Integrated Waveguide Cavity Bandpass Filter for C and X Band Applications
2.		408918004 10-Nov-2023	SOUNDARYA G	Investigations on Compact Highly Selective Substrate Integrated Waveguide Filters for C and Ku Band Applications
3.	Dr. R. Malmathanraj <b>Co-Guide:</b> Dr. P. Palanisamy	408117054 14-Feb-2024	NAGESWARARAONAIK BHOOKYA	Chilli Leaf Disease Classification using Deep Learning Techniques
4.	Dr. V. Sudha	408118005 07-Dec-2023	PARTHIBAN I	Investigations on Energy Efficiency Enhancement Techniques for 5G Millimeterwave MIMO Systems

5.	Dr. B. Malarkodi	408118006 22-Jul-2024	ROSALINE KAVITHA B	Analysis of Impact of Bioimpedance on Implant Coil of Artificial Retina for Improving Quality Factor & Bandwidth
6.		408915001 20-Dec-2023	KOTEESHWARI RS	Performance Analysis of Spectrum Efficient Techniques for 5G Wireless Networks
7.	Dr. R. Pandeewari <b>Co-Guide:</b> Dr. S. Deivalakshmi	408118007 13-Oct-2023	SANDHANA MAHALINGAM M	Microwave and Millimeter-wave Balanced AntipodalVivaldi Antennas for Imaging and Ultrawideband Localization Applications
8.		408915054 29-Sep-2023	KARTHIGAIVENI S	Design and Analysis of Metamaterial Inspired Multiple Input Multiple Output (MIMO) Antennas for Wireless Communication
9.	Dr. P. Muthuchidambaranatham	408118051 09-Nov-2023	SAMMAIAH THURPATI	Performance Analysis of Hybrid Precoding in Massive MIMO for Future Wireless Communication Networks
10.	Dr. S. Deivalakshmi	408119010 10-Jul-2024	RAVINDRANATH K	Deep Convolutional Neural Networks for Cancer Identification using Histopathological and Dermoscopy Images
11.		408320001 26-Jul-2024	PUJARI VENKATA YESWANTH	Image Super Resolution Techniques using Deep Convolutional Neural Networks for Leaf Disease Detection
12.	Dr. M. Bhaskar	408119015 11-Dec-2023	THENMOZHI V	Linearity-Enhanced Power-Efficient RF Low Noise Amplifier Design for 5G Wireless Applications
13.	Dr. S. S. Karthigeyan	408420003 02-Nov-2023	DEEPAL DEEPAK PATIL	Design and Implementation of RF Circuits and Antennas using Additive Manufacturing Technology
14.	Dr. E. S.Gopi	408915051 27-Jun-2024	NEEMA M	Investigations on Machine Learning and Computational Intelligence Applications in Wireless Communication
15.	Dr. P. Palanisamy	408917054 29-Feb-2024	TIRUMALAVASU GALITHOTI	Multi Focus, Multi Exposure and Multi Sensor Image Fusion using Edge Preserving Filters



## Department of Energy and Environment

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. M. Premalatha Co-Guide: Dr. G. Arthanareeswaran	417117002 22-Aug-2023	GOPI G	Sustainability Analysis of the Multi-Effect Solar Still and Multi-Effect Membrane Distillation Connected to Evacuated Tube Collector: A Study on Energy, Exergy, Economic and Life Cycle Assessment
2.	Dr. Ruben Sudhakar D	417119001 20-May-2024	VEMPALLY MUTHYA GOUD	Experimental Investigation and Machine-Learning Modelling of Shape-Stabilized Composite Phase Change Materials for Thermal Management of Lithium-Ion Batteries

## Department of Humanities and Social Sciences

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. R. Murugesan	409117006 23-Feb-2024	A KARMUHIL	Examining the Relationship between GST and Selected Stock Indices: A VAR Machine Learning and ARDL Approach
2.		409118003 27-Dec-2023	EVA MISHRA	Agricultural Commodities Price Forecasting and Volatility Analysis: An Econometric and Deep Learning Approach
3.		409118004 09-Feb-2024	SHANMUGARAJA V	Bitcoin Price Forecast and Its Relationship with other Commodities - An Application of IG - ANN, ARDL and ML Techniques
4.		409917052 29-Nov-2023	ANAND PANDEY	Universal Financial Inclusion in India and Its Effectiveness
5.	Dr. R. Joseph Ponniah	409118001 18-Dec-2023	ANNUNCY VINOLIYA D	Integrating Bioinformatics and the Genetics of Verbal Dyspraxia in Language Studies
6.		409119009 28-Mar-2024	ANISHA S	The Homeostasis of Memory and Cognition
7.	Dr. Vinod Balakrishnan	409119001 22-Jul-2024	CHRISALICE ELA JOSEPH	Reconfiguring the Refugee Self: Refugee Life Narratives as Spaces of Appearance
8.	Dr. G Nagasubramanian	409119004 10-Jul-2024	MARY KURIAKOSE	The Behavioral Aspects of Technology Adoption for Digital Entertainment Consumption: An Empirical Study using Psychological Constructs
9.		409920051 22-Apr-2024	PRADIP KUMAR NANDA	Assessing the Impact of Stressors on Employee Performance in Indian Public Sector Undertakings

10.	Dr. Sathyaraj Venkatesan	409119052 05-Sep-2023	ARYA S	Silenced Realities: Crafting a Critique of Psychiatry in Graphic Medicine
11.	Dr. Padmaja M	409320001 24-Jun-2024	PREM VASWANI	Triangulation of Capital Market Investors' Expectations: Examining Indian Macroeconomic (A)symmetry and Machine Learning Prediction

### Department of Instrumentation and Control Engineering

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. Dhanalakshmi K	410115002 24-Apr-2024	VETRISSELVI V	Design and Sensor-Less Control of Shape Memory Polyimide Composite Actuators
2.		410915052 22-May-2024	GEETHA M	Design of Shape Memory Alloy Bimorph Actuated Switch for Reconfigurable Antenna
3.	Dr. D. Ezhilarasi	410118001 26-Jun-2024	ANJALI S NAIR	Modeling and Gait Tracking of Lower Extremity Exoskeleton using Adaptive Sliding Mode Control Techniques
4.	Dr. K. Srinivasan <b>Co-Guide:</b> Dr. M. Brindha	410118008 23-Apr-2024	SHUPRAJHAA T	Design and Development of Reinforcement Learning based PID Controller for Stable and Unstable Process
5.		410118052 25-Apr-2024	SENTHILKUMAR K	Estimator based Controller Design for Networked Control System
6.	Dr. P.A. Karthick <b>Co-Guide:</b> Dr. N. Sivakumaran	410119001 18-Oct-2023	JOSEPH MATHEW	Non-Stationary Analysis of EEG Measurements for the Detection of Seizure Types and Localization of Epileptic Brain Tissues
7.	Dr. G. Uma	410914001 14-Feb-2024	GILBERT CHANDRA D	Data Driven Soft Sensors for Critical Parameters Estimation and Fault Diagnosis in Liquid Rocket Engine Ground Testing
8.	Dr. N. Sivakumaran	410915002 19-Jun-2024	A KALAISELVAN	Analysis, Prediction and Forecasting of Crime using Artificial Intelligence Techniques
9.		410917003 10-Jul-2024	SARAVANA BALAJI M	Integrating Acoustic Signals and Machine Learning Method for an Effective Water Leakage Detection
10.		410917051 28-May-2024	ARUN GANESH K	Analysis of Corticomuscular Activities for the Recognition of Lower Limb Movements

## Department of Management Studies

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. V J Sivakumar	415117002 28-Nov-2023	NANCYPRABHA P	Examining the Determinants of Customer Experience with Mobile Financial Services Applications
2.		415119002 14-Feb-2024	BHUVANES KUMAR A	Examining Sustainable Development in the Contexts of Socially Responsible Investing, Renewable Energy and Cryptocurrencies
3.	Dr. V Lavanya	415117052 24-Apr-2024	BALAKRISHNA BALLEKURA	Unraveling the Ripple Effects of Workplace and Family Incivility: An Exploration of Employee Silence, Mental Health and Turnover Intention.
4.		415320051 29-Jul-2024	ARUN KUMAR P	Mapping New Routes: Peer Relationships, Personality Traits, and Negative Workplace Dynamics in Understanding Feedback-Seeking Behavior
5.	Dr. B. Janarthanan	415118051 06-Jun-2024	FAZEEN RASHEED A K	Consumer Minimalism in the Sharing Economy: Behavioural Insights and Strategic Implications
6.	Dr. P. Sridevi	415119051 24-Jan-2024	NANDUKRISHNA T AJITH	User's Journey in Over-The-Top Video Streaming Platforms - from Adoption to Termination
7.		415915056 30-Jan-2024	NIVETHA S	A Study on Performance of Initial Public Offerings and Market Condition of New Issuance : Evidence from an Emerging Market
8.	Dr. Thamaraiselvan Natarajan	415120001 12-Feb-2024	DEEPAK RAMANAN V	Examining The Omnichannel Shoppers' Citizenship and Word-of-Mouth Behaviors
9.	Dr. B. Senthil Arasu	415913052 01-Feb-2024	JONATH BACKIA SEELAN B	Implication of Machine Learning Techniques on Enhancing Social Media Marketing
10.		415914051 12-Apr-2024	NANCY CHRISTINA J	Evaluation of Stock Performance using Fundamental, Momentum and Text Data for Equity Portfolio Construction
11.		415915055 22-Dec-2023	S SIVAKUMAR	The Economics of Dual-Listed Indian Nifty 50 Stock Index Futures
12.	Dr. M. Punniyamoorthy	415914054 18-Jan-2024	KATHIRVEL S	Particle Swarm Optimization and Initialization Strategies in an Expectation Maximization Algorithm to Improve the ABC Classification and Its Performance Evaluation with other Models

## Department of Mathematics

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. V. Kumaran	416117001 15-Mar-2024	VISHWA PRAKASH JHA	Some Generalizations of Teissier Distribution: Theory and Applications
2.	Dr. K. Murugesan	416118003 10-Nov-2023	PRAVEEN KUMAR R	A Fractional Order Model for HPV Infection and Its Impacts on Cervical Cancer
3.		416119053 23-Nov-2023	POORNIMA P	Construction of Refinement Masks Satisfying the Sum Rules of Order One Using Spectral Data
4.	Dr. V. Lakshmana Gomathi Nayagam	416118004 23-Nov-2023	SURIYAPRIYA K	Similarity Measure and Fuzzy Linear Programming for Incomplete Imprecise Information
5.	Dr. I. Jeyaraman	416118051 24-Apr-2024	T DIVYADEVI	Euclidean Distance Matrices and Inverses of Matrices of Graphs
6.	Dr. N. Prakash	416118053 22-Apr-2024	SANGEETHA K V	Proximality Properties of Faces in some Banach Spaces
7.	Dr. Vamsinadh Thota	416119001 21-Jun-2024	GAYATHRI P	Some Geometric, Best Approximation and Extension Properties in Banach Spaces
8.	Dr. V Ravichandran	416119002 03-May-2024	MADHUMITHA S	Radius and Subordination Results on Analytic and Meromorphic Functions
9.		416119004 25-Jul-2024	SHALU YADAV	Radii Constants, Differential Subordination and Convolution for Certain Ma-Minda Classes
10.	Dr. P. Saikrishnan	416119003 26-Jul-2024	SAHAYA JENIFER A	Computational Study in Non-Similar Flows of Water/Hybrid Nanofluids over Different Geometries
11.	<b>Co-Guide:</b> Dr. V. Ravichandran	416320003 08-Jan-2024	PRIYA G KRISHNAN	Subordination and Radius Problems for Analytic and Meromorphic Functions
12.	Dr. Jitraj Saha	416119051 24-Jun-2024	ARIJIT DAS	Mathematical Study of a Discrete Aggregation Model
13.	Dr. V Shanthi	416119054 15-Nov-2023	RAM SHIROMANI	Numerical Analysis for Singularly Perturbed Elliptic Type Problems
14.		416120001 26-Feb-2024	AJAY SINGH RATHORE	Numerical Methods for Singularly Perturbed Integro Differential Equation with Not All Data Necessarily Smooth
15.	Dr. Atul Kumar Verma	416120004 26-Apr-2024	TAMIZHAZHAGAN S	A Study on Two-Lane Transport Systems through Exclusion Process

## Department of Mechanical Engineering

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. T. Ramesh	411116052 14-Aug-2023	PRADEEP RAJA C	Mechanical Performance and Microstructural Response of Pure Copper during Cryogenic Multi-step Cross Rolling
2.	Dr. N. Shiva Shanmugam	411117055 12-Dec-2023	PRAVIN KUMAR N	Studies on the Microstructure, Mechanical Properties, Wear and Corrosion Characteristics of Inconel 625 Hard Overlays Deposited on AISI 316L Plate
3.	<b>External Guide:</b> Dr. P.R. Venkateswaran	411915009 10-Jul-2024	ALAGESAN R	Studies on the Evaluation of Microstructural Features and Hot Tensile Behaviour of Tungsten Inert Gas Welded TP321 Thin Wall Tubes
4.	Dr. R. Anand	411118002 13-Dec-2023	DINESHKUMAR M	Co-Pyrolysis of Biomass Residue with Polymer Waste Towards Synergistic Recovery of Renewable Hydrocarbon Fuel and Its Use in Diesel Engine
5.	Dr. A R. Veerappan	411118005 15-Jul-2024	RAGHURAMAN T	Determination of Limit Pressure and Plastic Collapse Load of Shape Imperfect Pipe Bends with Through-wall Circumferential Crack
6.		411916005 09-Jan-2024	NAVEENKUMAR R	Performance Evaluation of Modified Double Slope Solar Still using Nanofluids
7.	Dr. M Udayakumar	411118006 17-Jan-2024	SAJAN JEROME	A Comprehensive Study on Electric Vehicle Adoption in India
8.	Dr. Nanda Naik Korra	411118053 02-May-2024	SENTHIL KUMAAR S	Systematic Experimental Investigation of Tungsten Inert Gas (TIG) and Activated Tungsten Inert Gas (A-TIG) Welding of Inconel 617
9.	Dr. K R Balasubramanian	411119005 22-Jul-2024	JOHN PETER R	Experimental and Numerical Investigation of Micro-encapsulated Phase Change Slurry in Various Micro-Channel Heat Sink Configuration
10.		411918004 23-Jul-2024	GURUGUBELLI PRAMOD KUMAR	Studies on Microstructure, Mechanical and Corrosion Properties of Thick-sectioned Inconel 617 Alloy Welded by Pulsed Cold Metal Transfer and Laser-MIG Hybrid Welding Processes
11.	Dr. K. S. S. Harish	411119007 22-Dec-2023	NAGARJUNA KUMMA	Flammability and Performance Studies of Eco-Friendly Refrigerant Mixtures used in Domestic Refrigerators
12.		411918003 08-Jul-2024	DHANUNJAY KUMAR AMMISSETTI	Experimental Investigation on Mechanical, Tribological and

				Electrical Discharge Machining Characteristics of AZ91 Composites with Machine Learning Techniques
13.	Dr. V. Arul Mozhi Selvan	411914054 29-Jul-2024	SATHIYASEELAN A	Investigations on the Performance Characteristics of a Fighter Aircraft Environmental Control System
14.	Dr. K. Sankaranarayanan <b>External Guide:</b> Dr. V. Anbalagan	411917003 26-Jul-2024	T BASKARAN	Occupational Health and Ergonomic Aspects in Mobile Crane Operations
15.	<b>External Guide:</b> Dr. N. Durairaj	411917004 25-Jul-2024	C HEMALATHA	Artificial Intelligence in the Reduction of Work In Process (WIP) Management of Boiler Tubular Products Manufacturing
16.	Dr. S P. Sivapirakasam	411917005 03-Jan-2024	RAAJESH KANNAN RK	Investigations on Reduction of Fumes and Cr <sup>6+</sup> Emissions in Stellite Hardfacing Operation

### Department of Metallurgical and Materials Engineering

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. S. Jerome	412118005 03-May-2024	VISHNUKUMAR M	Wire Arc Additive Manufacturing of Austenitic Steel 316L and Super Austenitic Stainless Steel 904L: Structure-Property Correlation Studies
2.		412915008 25-Sep-2023	GOPINATH L	Studies on Deformation Behaviour during End Milling of Aluminum Thin Walls
3.	Dr. S. Kumaran	412118006 08-Feb-2024	KRISHNAVENI U	Metallurgical and Bio-Corrosion Attributes of Thermo - Mechanically Processed Bio - Resorbable $\alpha$ - Magnesium - Lithium - X (Zinc/Tin) Alloys
4.		412118051 24-Nov-2023	THANGAVEL N	Development of Copper Selenide Thermoelectric Compound through High Energy Ball Milling and Spark Plasma Sintering Process
5.	Dr. K. Sivaprasad <b>External Guide:</b> Dr. T. Bhaskar	412920002 20-Dec-2023	SURYANARAYANA REDDY M	Microstructure, Mechanical Properties and Corrosion Behaviour of Wire Arc Additively Manufactured Corten Steel and 304L Stainless Steel

### Department of Physics

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. R. Sankaranarayanan	413112051 05-Jun-2024	P VIPIN	Thermodynamic and Statistical Studies on Chemical Kinetics
2.		413118005 22-Sep-2023	VENKAT ABHIGNAN Y	Study of Phase Transitions using Resummation in Field Theories

3.	Dr. B. Karthikeyan	413116006 12-Feb-2024	C MADHUMITHA	Optical, Raman and UV Photodetector Studies on ZnO Nanostructures
4.		413119005 14-Dec-2023	JANANI ARCHANA K	Engineered Nanomaterials for Fluorescence Biosensing and White Light Emission
5.		413119053 06-Jun-2024	SWATI PAUL	Exciton Dynamics and Nonlinear Optical Properties of Semiconductor-Polymer Nanocomposites
6.	Dr. S. Manivannan	413116010 24-Jul-2023	LAKSHMANAMOORTHY K	Ionic Liquids Assisted Synthesis of Graphene and Reduced Graphene Oxide Composites for GasSensing, Anticancer and Photocatalytic Applications
7.	Dr. N. Gopalakrishnan  <b>External Guide:</b> Dr. R. Manavalan	413117001 24-May-2024	ARYA SUKUMARAN	Defect Induced Ferromagnetism in Y, Nb and Gd Doped ZnO Thin Films Grown by RF Magnetron Sputtering for Spintronics Application
8.		413915052 09-May-2024	B ARUNACHALAM	Investigation on Single and Double Atoms Doping in Ge <sub>13</sub> and Pt <sub>13</sub> Clusters by DFT
9.	Dr. N.V. Giridharan	413117003 14-Mar-2024	SEETHAL PAPPACHAN	Tuning the Relaxor Property of Lead-Free Perovskite K <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> for Energy Storage Applications
10.		413117051 26-Jul-2024	RASHID A	Investigation on the Electromechanical Properties of Lead-Free K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> And Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> Based Piezoceramics for Actuator Applications
11.	Dr. J. Hemalatha	413117006 27-Feb-2024	SANDEEP KUMAR YADAV	Magnetoelectric Core-Shell Nanofiber: Synthesis and Characterization for AC/DC Magnetic Field Sensor Application
12.	Dr. R. Justin Joseph	413117008 19-Jan-2024	SIVARANJANI K S	Reduction Mechanism and Magnetic Properties of Fe Core-Shell Particles obtained through Polyol Process
13.	Dr. A. Chandra Bose  <b>External Guide:</b> Dr. R. Gopalan	413117053 13-Mar-2024	HARIKRISHNAN M P	Cerium Nickel Oxide and Its Nanostructure Composites for Supercapacitor Application
14.		413915053 13-Oct-2023	PRIYADARSHINI B	Investigation of the Phase Formation, Microstructure and Thermoelectric Properties of Zinc Antimonides and Magnesium Silicides
15.	Dr. M Ashok	413117057 23-Jul-2024	K DHIVYAPRASATH	Investigation on Organometallic Halide Perovskites and Metal-Based Hole Transport Layers for Solar Cell Application

16.	Dr. R. Nagalakshmi	413118002 12-Jan-2024	REMYA U D	Terbium (Tb) Based Intermetallic Compounds for Low-Temperature Magnetocaloric Applications
17.		413118004 15-Mar-2024	SWATHI S	Chemical Pressure: A Robust Tool to Tune Manganese based Magnetocaloric Materials for Near-Room Temperature Magnetic Refrigeration
18.	Dr. Annapureddy Venkateswarlu	413118052 09-Jul-2024	KAARTHIK J	Design, Preparation and Optimization of Lead-Free Piezoelectric (Ba,Ca)(Zr,Ti)O <sub>3</sub> Materials for Energy Harvesting and Storage

### Department of Production Engineering

Sl. No.	Names of the Guide	Roll No. Viva Date	Name	Title of Thesis
1.	Dr. C. Sathiya Narayanan <b>Co-Guide:</b> Dr. B. Ravishankar	414116003 15-Apr-2024	CHINTHANAI SELVAN C	Cryogenic Rolling of Aluminium Alloys in a Bidirectional Strain Path: An Investigation by the Evolution of Microstructure and Mechanical Behavior
2.	<b>Co-Guide:</b> Dr. B. Ravishankar	414320001 04-Jul-2024	ANEES K J	Numerical and Experimental Investigation on Formability of Perforated Austenitic and Super Austenitic Stainless-Steel Sheets Formed by Single Point Incremental Forming
3.		414917003 26-Dec-2023	V SUDHARSANAM	Investigation and Counterbalancing of Longitudinal Bending Distortion in Double Side Welded Structures
4.		Dr. D. Lenin Singaravelu <b>Co-Guide:</b> Dr. V. Senthilkumar	414116007 30-Apr-2024	RAMAKRISHNAN S
5.	<b>Co-Guide:</b> Dr. N. Samsudeen	414320002 08-Apr-2024	CIJO MATHEW	Development of Carbon Based Composite Bipolar Plates for Polymer Electrolyte Membrane Fuel Cells
6.	Dr P Asokan <b>Co-Guide:</b> Dr S. Vinodh	414118001 24-Nov-2023	AADITHYA B G	Barrier Analysis and Maintenance Perspective of Lean Implementation in a Fabrication Industry
7.	Dr. S. Prasanna Venkatesan	414118002 26-Oct-2023	ANANDH G	A Decision Support Tool based on Random Forest and Evolutionary Optimization for End-of-Life Laptop Remanufacturing under Quality Grading of Parts
8.		414917002 23-Jul-2024	SREERAG R S	Models and Methods for Market Channel Selection, Sales Forecasting and Vehicle Routing of Selected Fresh Vegetables Produced by Small and Marginal Farmers in Kerala
9.	Dr. S. Kumanan	414118004 22-Mar-2024	KARMUHILAN M	Fabrication and Analysis of Inconel 625 Parts using Wire and Arc Additive Manufacturing



10.	Dr. P Sathiya	414119002 26-Jul-2024	RAJESH KANNAN G	Experimental Investigation on Spin Arc Welding of 15CDV6 HSLA Steel and its Parameter Optimization
11.	Dr. Ing. M. Duraiselvam	414119051 08-Jul-2024	JAGADEESH B	Deformation Studies on Novel Lattice Structures Produced by Selective LASER Melting of Metallic Biomaterials
12.	Dr. Vineet Kumar Yadav	414120002 23-Jul-2024	KUMAR S	Life Cycle Assessment, Vehicle Routing Optimization, And Strategic Framework Development for Sustainable Urban Food Systems
13.	Dr. J. Jerald	414915053 15-Nov-2023	KIRAN V SAGAR	Meta-Heuristics-based Multi-Objective Scheduling of Flexible Manufacturing System for Peak Load And Carbon Footprint Reduction
14.	Dr. S. Vinodh	414916008 26-Jul-2024	SENTHIL KUMAR D	Analysis of Barriers, Value Stream Mapping and Performance Measurement for Lean Implementation in an Electronics Component Manufacturing Organization
15.	Dr. R. Jeyapaul	414918051 02-Apr-2024	ANNAMDASU NAGESWARA RAO	Road Safety: Analyzing Driver Distractions, Driving Errors, and Development of Distraction Detection System
16.	<b>External Guide:</b> Dr. R. Suresh	414918057 21-Mar-2024	MARIAPPAN S	Multi Criteria Decision Making of Outsourcing for Launch Vehicles in the Space Industry
17.	Dr. P. Senthil <b>External Guide:</b> Dr. M. Manohar	414919052 05-Jan-2024	CHIDANAND MAGADUM	Evaluation of Hot Wire GTAW Process for 18Ni M250 MaragingSteel

## 2.0 MASTER OF SCIENCE (BY RESEARCH)

### Department of Computer Science and Engineering

Sl. No.	Names of the Guide	Roll No.	Name	Title of Thesis
1.	Dr. Mary Saira Bhanu	306917051 18-Aug-2023	SOUMYA BHOWMIK	Container based Cloud Infrastructure Security

### Department of Electronics and Communication Engineering

Sl. No.	Names of the Guide	Roll No.	Name	Title of Thesis
1.	Dr. M. Bhaskar	308919051 23-Jan-2024	DEBDAS PAIK	Design and Implementation of Low-Cost Satellite Telemetry Data Receiver using SDR
2.	Dr. D. Sriram Kumar	308921001 03-Nov-2023	S RATHINASABAPATHI	Use of V-I Curve in Identifying Faulty Components in an Electronic Circuit Board

### Department of Energy and Environmental Engineering

Sl. No.	Names of the Guide	Roll No.	Name	Title of Thesis
1.	Dr. M. Premalatha	317912051 20-Nov-2023	MERCY S	Technical and Economical Feasibility Studies of Light Pipes for Energy Savings in Buildings

### Department of Instrumentation and Control Engineering

Sl. No.	Names of the Guide	Roll No.	Name	Title of Thesis
1.	Dr. G. Uma	310920001 18-Oct-2023	JITTHU JOSEPH	Development of an Algorithm to Estimate Hydrogen Concentration using a ZnO-based Gas Sensor and Its Characterization

### Department of Mechanical Engineering

Sl. No.	Names of the Guide	Roll No.	Name	Title of Thesis
1.	Dr. S. Suresh	311915054 02-Jul-2024	ARITRA CHAKRABORTY	Experimental Investigation and Thermodynamic Analysis of Chemical Looping Combustion
2.		311918001 02-Jul-2024	RANJIT KUMAR SAMAL	Performance Analysis of Lignite Based Power-Plants under Variable Loading Conditions and Development of Techniques for Improvement in Overall Efficiency
3.		311918051 22-Feb-2024	PADMANABAN M	Experimental Investigation on the Performance of Solar Still Integrated with Vent Holes and Hybrid Nano PCM

## Department of Production Engineering

Sl. No.	Names of the Guide	Roll No.	Name	Title of Thesis
1.	Dr. P. Parthiban	314118001 18-Jul-2024	CHALLAGUNDLA BHARATH KUMAR	An Elevated Approach to Evaluate Energy Interchange in Supply Chains
2.	Dr. V. Anandakrishnan	314915003 16-Nov-2023	SENTHILKUMAR G	Novel Methods for the Automation of Welding Process of Multi-Plane Links in Once Through Supercritical Boiler
3.	Dr. Senthil P	314916003 24-Jul-2024	UPENDRA KUMAR	A Comparative Machinability Study on Titanium Alloy Ti-6Al-4V using Cryogenic Treated & Untreated WC Inserts in Turning Operation