



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

Note 1:	<p>Documents to be submitted related to Shodhganga before Convocation. All listed Ph.D. graduands are requested to send filled in “Form 10C” after obtaining guide sign before 10th July 2023 to phdsection@nitt.edu. Please send filled in “Form 10D” if you want to withhold the Thesis to be uploaded in the repository. Forms are available under ‘Formats for download’ in academics in institute website. <i>(Please ignore if already submitted.)</i></p>
Note 2:	<p>Passport size Photos are yet to be received from some of the Ph.D. & MS by Research scholars. It is mentioned as “Photo should be submitted” under their Name. Please send recent photo with Blue/White Background and send it to phdsection@nitt.edu on or before 10th July 2023.</p>

LIST OF GRADUANDS / MS (by research) and Ph.D.

Ph.D.

Sl. No.	Roll No.	Name	Title of Thesis	Names of the Guides	Department
1	402116002	Ullas Krishnan J N	Catalytic Conversion of Carbon Dioxide using Steam to Produce Methanol and Prospective Decarbonization	Dr. Sarat Chandra Babu J	Chemical Engineering
2	402116051	Deepa K	Copolymer and Metal Oxide Nanoparticle Constructing Membrane for the Application of Fuel Cell and Separation of Lignocellulosic Compounds from Biomass	Dr. G. Arthanareeswaran	Chemical Engineering
3	402117002	Sasikumar B	Enhancement of Hybrid Membrane Performance for CO ₂ Separation through Facile Integration of Ionic Liquids and Amine Functionalized	Dr. G. Arthanareeswaran	Chemical Engineering

For any corrections in Title or Name (considered as per PG certificate) or queries, mail to phdsection@nitt.edu

			Metal-Organic Frameworks		
4	402118002	Ani Lawrance	Exploration of Processes, Development of Mathematical Model and Simulation for Batch Biodrying of Municipal Solid Waste	Dr. A. Arunagiri	Chemical Engineering
5	402915051	Shanthi M	Pre-treatment of Fruits and Vegetables Waste for Energy Efficient Biomethane Production	Dr. P. Sivashanmugham	Chemical Engineering
6	403113002	Nantha Priya G	Impact of Household Structure on the Travel Pattern of Senior Citizens in Urban Areas	Dr. Samson Mathew Dr. G. Subbaiyan	Civil Engineering
7	403115054	Cynthia Baby Daniel	A Geospatial Approach for Evaluating the Topological Attributes of Road Networks and their Significance on Urban Socio-Economics	Dr. Samson Mathew Dr. S. Saravanan	Civil Engineering
8	403117003	Athibaranan S	Experimental and Analytical Investigation of Ultra-High-Performance Concrete containing Ultra-Fine Fly Ash and Slag under different Curing Regimes	Dr. J. Karthikeyan	Civil Engineering
9	403118005	Sandeep Singh	Impact of Multiclass Commercial Vehicles on Multilane Highway Traffic Stream Characteristics under Mixed Traffic Platooning Conditions	Dr. S.Moses Santhakumar	Civil Engineering
10	403119004	Prabu T	Lunar In-Situ Resource Utilization for Evaluating Design Criteria of	Dr. K Muthukkumaran	Civil Engineering

For any corrections in Title or Name (considered as per PG certificate) or queries, mail to phdsection@nitt.edu

			Lunar Structures including Moonquake Effect		
11	403915001	Suganya P (Photo should be submitted)	Analysis and Evaluation of Water Quality Parameters of Auxiliary Water System of a Nuclear Plant: A Case Study	Dr. G Swaminathan	Civil Engineering
12	403916003	S Shameem Banu	Influence of Agro-Waste on Mechanical and Durability Properties of Concrete	Dr. P. Jayabalan Dr. J. Karthikeyan	Civil Engineering
13	404114005	A Kalaiyarasi	Synthesis and Characterization of Acylthiourea derivatives: Metal ions Removal and Sensing Applications	Dr. V.M. Biju Dr. R. Karvembu	Chemistry
14	404115005	Ummu Habeeba A A	Synthesis of Conjugated Polymers and Small Organic Molecules for Solar Cells and Nonlinear Optics Applications	Dr.S. Anandan	Chemistry
15	404115009	Arthi S (Photo should be submitted)	A Study on the Synthesis, Characterization, <i>Insilico</i> and <i>Invitro</i> Analysis of Piperine Analogues as Potent Antibiotics	Dr. S. Velmathi	Chemistry
16	404117001	Dorothy Priyanka Dorairaj (Photo should be submitted)	Transition Metal Complexes Bearing Acylthiourea Ligands for Anticancer Applications	Dr. R Karvembu	Chemistry
17	404117003	Ragini P	Surface Modified-Transition Metal Chalcogenides as an Effective Adsorbent for the Removal of Environmental Pollutants	Dr. S. Anandan Dr. P. Sivashanmugam	Chemistry
18	404118002	G Ahalya	Polymer Gel Electrolytes for Dye-Sensitized Solar Cells	Dr. S. Anandan	Chemistry

19	404118004	Pandia Raj S (Photo should be submitted)	Covalent- and Metal-Organic Frameworks for Electrocatalytic and Energy Storage Applications	Dr. R. Karvembu	Chemistry
20	405115005	P Theepalakshmi (Photo should be submitted)	Planted (<i>l</i> , <i>d</i>) Motif Search using Bio-Inspired Algorithms	Dr. U. Srinivasulu Reddy	Computer Applications
21	405116002	D Santha Devi (Photo should be submitted)	Artificial Intelligence Framework for Malware Detection and Classification on IoT Edge	Dr. B. Janet	Computer Applications
22	405116007	Suresh K	Cryptographic Key Generation from Fingerprint Biometrics using Gray Code for Secure Storage and Secure Communication	Dr. S. R. Balasundaram Ext: Dr. Rajarshi Pal	Computer Applications
23	405117001	Malvika Singh	Hybrid Learning Techniques for Insider Threat Detection using User Behaviour Analysis	Dr. S Sangeetha	Computer Applications
24	405117007	Srinadh Swamy Majeti (Photo should be submitted)	Security and Usability Metric Framework for Mobile Banking and Financial Service Applications	Dr. B. Janet	Computer Applications
25	405118001	Kavitha Lakshmi R	A Study on Real-Time Plant Leaf Disease Detection and Segmentation using Deep Learning Algorithms	Dr. S. Nickolas	Computer Applications
26	405119002	Lella Kranthi Kumar	AI4COVID: An Artificial Intelligence-based Framework to Diagnosis of COVID-19 Disease Symptoms from Human Respiratory Sound Data using Deep Learning Approaches	Dr. P. J. A. Alphonse	Computer Applications
27	405913054	M Sivakumar	Aspect based Sentiment Analysis of Customer	Dr. U. Srinivasulu Reddy	Computer Applications

			Reviews using Machine Learning		
28	405917002	Rashmi S Nair	Underwater Image Compression and Reconstruction using Deep Learning and Traditional Techniques	Dr. S Domic	Computer Applications
29	405918054	Sanjeev Kumar (Photo should be submitted)	Image Visualization Based Malware Detection and Classification	Dr. B. Janet	Computer Applications
30	406115002	Kakumani K C Deepthi (Photo should be submitted)	Study of Lightweight Stream Ciphers	Dr. Kunwar Singh	Computer Science and Engineering
31	406115008	Sulphikar A	An Algorithmic Study of Terminal Wiener Index of trees	Dr. Kunwar Singh Dr. U. Srinivasulu Reddy	Computer Science and Engineering
32	406118006	Sugirtha T	Human Inspired Vision based Framework for Autonomous Driving Systems	Dr. M. Sridevi	Computer Science and Engineering
33	406913051	Jobin Jose (Photo should be submitted)	Studies on Performance Evaluation of Cache Memory	Prof. N. Ramasubramanian	Computer Science and Engineering
34	407111002	Joseph Godfrey A	Regenerative Braking Techniques for BLDC Motor Driven Electric Vehicle	Dr. V. Sankaranarayanan	Electrical and Electronics Engineering
35	407117004	Manikandan T	Design, Development and Investigations on Simultaneous Transmission of Power and Full-Duplex Data Communication on IPT System for Low and Medium Type Power Applications	Dr. Sundareswaran K, Dr. P Srinivasa Rao Nayak	Electrical and Electronics Engineering
36	407117051	Krishna Kumba	Investigation of Second Order Lever Single Axis Solar Tracking System	Dr. Sishaj P. Simon Dr. K. Sundareswaran	Electrical and Electronics Engineering
37	407117052	Kamalpathi K	Design, Realization and Performance Evaluation of Wireless Power Transfer System	Dr. Srinivasa Rao Nayak	Electrical and Electronics Engineering

For any corrections in Title or Name (considered as per PG certificate) or queries, mail to phdsection@nitt.edu

			Integrated with Solar Power for Electric Vehicle Charging		
38	407118009	Sowthily C	Investigations on Effective Utilization of Solar Photovoltaic Array under Partial Shading Conditions and Fault Detection Schemes	Dr. S. Senthil Kumar Dr. M. Sridevi	Electrical and Electronics Engineering
39	407914052	Balasubramanian P (Photo should be submitted)	A Novel Emulation Framework for Evaluation of COSMIC Radiation Effects in a Million Gate Digital Devices for Aerospace Applications	Dr. S. Moorthi Ext: Dr. V. Natarajan	Electrical and Electronics Engineering
40	407915002	Prakash R	Investigations on Control Strategies for Emergency Vehicle Priority in Intelligent Transportation System	Dr. S. Senthil Kumar	Electrical and Electronics Engineering
41	408116007	M Anandareddy	Design and Analysis of Metamaterial Inspired Structures for Filter, Antenna and Absorber	Dr. R. Pandeewari	Electronics and Communication Engineering
42	408117001	Hanumantharao Bitra	Reduction of PAPR in OTFS Signal using Companding Transforms	Dr. P. Palanisamy	Electronics and Communication Engineering
43	408117006	Radhakrishnan S	Design and Analysis of Passive Optical Devices on SOI Platform for Communication and Network Applications	Dr. D. Sriram Kumar Dr. G. Thavasi Raja	Electronics and Communication Engineering
44	408118001	Anagha E G	Investigations on the Design of Photonic Crystal based All-Optical Logic Devices for Photonic Integrated Circuits	Dr. V. Senthilkumar	Electronics and Communication Engineering
45	408119007	Nisha J S	Colorectal Polyp Detection based on Machine Learning	Dr. Varun P. Gopi	Electronics and Communication Engineering

			and Deep Learning Approaches		
46	408119014	Sunija A P	Deep Learning Based Retinal Disease Detection from Optical Coherence Tomography Images	Dr. Varun P. Gopi	Electronics and Communication Engineering
47	408119051	Janani Natarajan (Photo should be submitted)	Investigations on Strategic Small Cell Sleep Control Mechanisms for Energy Efficiency Enhancement in 5G Heterogeneous Cellular Networks	Dr. B. Rebekka	Electronics and Communication Engineering
48	408916001	Prathiban N Pillai	Investigations on Asymmetric Coplanar Strip Fed Metamaterial Inspired Antennas	Dr. R. Pandeewari	Electronics and Communication Engineering
49	408916002	Ranjit Kumar Rayala	Design and Optimization of Metamaterial based Substrate Integrated Waveguide Filters using Artificial Neural Networks	Dr. S. Raghavan, Dr. R. Pandeewari	Electronics and Communication Engineering
50	409113051	Pushpanathan S (Photo should be submitted)	Challenges of Caregiving Alzheimer's Dementia Patients in South India	Dr. G. Nagasubramaniyan Dr. Sathyaraj Venkatesan	Humanities and Social Sciences
51	409116003	Chandramohan Karthikeyan	A Study on Economic Growth, Money Supply, Service Sector Share and Environment: An Econometric and Machine Learning Approach	Dr. R. Murugesan	Humanities and Social Sciences
52	411113002	K Guru Manikandan	Some Investigations of Vibration Induced Motion	Dr. K Pannir Selvam	Mechanical Engineering
53	411114053	Kishor Bharadwaj K S	A Methodology for Selecting and Redesigning Compliant Mechanisms using Non-	Dr. T. Ramesh	Mechanical Engineering

			Dimensionalized Feasibility Maps		
54	411116005	Silambarasan R	The Effect of Bend Angle on the Collapse Load of Shape Imperfect Pipe Bends	Dr. A. R. Veerappan	Mechanical Engineering
55	411116053	R Muthudineshkumar	Effective Utilisation of Various Biomass Feedstock for Syngas Generation using Packed Bed Gasifier	Dr. R. Anand	Mechanical Engineering
56	411117005	Jinshah B S	Performance Investigation of an Open Natural Circulation Loop based Dual Mode Parabolic Trough Collector for Low Temperature and Saturated Steam Applications	Dr. K R Balasubramanian	Mechanical Engineering
57	411117007	Midhun V C	Vacuum Insulation Panel Integrated Thermal Management System for Electronics Package Exposed to Harsh Thermal Environment	Dr. S. Suresh	Mechanical Engineering
58	411117008	Bhavin K Bharath	Investigations of Ternary Alcohol Blends and Hybrid Nanolubricant on Performance, Emission, Noise and Vibration Characteristics of a SI Engine	Dr. V. Arul Mozhi Selvan	Mechanical Engineering
59	411117053	Venkatesan V (Photo should be submitted)	Development of Elephant Trunk Soft Pneumatic Actuator for Robots	Dr. AR Veerappan	Mechanical Engineering
60	411117054	Pramod R	Design, Development and Testing of Metal-Elastomer Lined Composite Overwrapped Spherical Pressure Vessel	Dr. N. Siva Shanmugam	Mechanical Engineering

61	411119008	Rahul M (Photo should be submitted)	Studies on the Development of the New Covered SMAW Electrodes for Concurrent Reduction of Fume and Hexavalent Chromium (Cr(VI)) Emissions	Dr. S P Sivapirakasam	Mechanical Engineering
62	411119010	Kora T Sunny (Photo should be submitted)	A Systematic Investigation on Activated Tungsten Inert Gas Welding and Hot Wire Tungsten Inert Gas Welding of Super Austenitic Stainless Steel AISI 904L	Dr. Nanda Naik Korra	Mechanical Engineering
63	411914006	Shankar R	Studies on the Development of Nanostructured Thermal Spray Coating for High Temperature Applications	Dr K R Balasubramanian	Mechanical Engineering
64	411914053	Anand S	Heat Transfer Analysis of Supercritical Water Flowing in a Vertical Tube	Dr. S.Suresh	Mechanical Engineering
65	411915052	Sathyanarayanan S	Experimental Investigation and Performance Prediction of Gasoline Engine Powered by Diisopropyl Ether-Gasoline Blends and Sucrose/Alumina Catalyst Coated Converter	Dr. S. Suresh	Mechanical Engineering
66	411916001	Tarique Hussain	A Study on Performance Evaluation of Aero-Engine Lubricating Oil Pump	Dr.M.Udayakumar	Mechanical Engineering
67	411916008	D K Karthik (Photo should be submitted)	Experimental Investigation of Thermal Hydraulic Performance of Continuous and Discrete 'V' and 'W' Shaped Rib	Dr. S. Suresh	Mechanical Engineering

			Turbulators in Gas Turbine Blade Cooling Application		
68	411916010	R Yoganathan	Experiments on the Impact of Expansion Joint Grip Strength and Its Non-Destructive Measurements on Bank Tube of Bi-Drum Boiler	Dr. R. Anand	Mechanical Engineering
69	412116052	Praveen Kumar D	Studies on Diffusion Bonding of Similar and Dissimilar Alloys by Spark Plasma Assisted Heating: Metallurgical, Mechanical and Electrochemical Attributes	Dr Kumaran S	Metallurgical and Materials Engineering
70	412117002	Vivek Gaurav	Synthesis, Thermodynamic Modelling, and Tribological Studies of Cast Duplex Stainless Steel with Effect of Stabilisers	Dr. S. Raman Sankaranarayanan	Metallurgical and Materials Engineering
71	412117051	Manoj Kumar P	Development of Visible Light Active Immobilised TiO ₂ Photocatalyst on Cp-Ti and Ti Alloys by Plasma Electrolytic Oxidation for Textile Wastewater Treatment	Dr. N. Ramesh Babu	Metallurgical and Materials Engineering
72	412915053	Sarfudeen M	Distortion Control and Productivity Improvement of Structural Steel (S355JR) for Windmill Tower Fabrication	Dr. S. Muthukumar	Metallurgical and Materials Engineering
73	412916054	V Srinivasa Chandra (Photo should be submitted)	Microstructural, Mechanical and Tribological Behavior of Gravity and Squeeze Cast Al-Alloy	Dr. K Sivaprasad Ext: Dr. V. Dhanasekaran	Metallurgical and Materials Engineering

For any corrections in Title or Name (considered as per PG certificate) or queries, mail to phdsection@nitt.edu

74	413110001	Kanagaraj C (Photo should be submitted)	Theoretical Investigations of some Half-metallic Heusler Alloys for Spintronics Applications	Dr. N. Baskaran	Physics
75	413115004	Indrajith V S (Photo should be submitted)	Measurement based correlation, purity and coherence of quantum bipartite states	Dr. R. Sankaranarayanan	Physics
76	413115010	Sai Guru Srinivasan S	Deposition of Cu ₂ O and CuO Thin Films by Reactive Sputtering for Heterojunction Devices, Resistive Random Access Memory and Photocatalysis	Dr. R. K Jeyachitra	Physics
77	413115051	M Kirubanithy (Photo should be submitted)	Experimental Investigations on the Graphene - like 2D Natural Single Crystals of Muscovite, Biotite and BaTiO ₃ -Muscovite Composites	Dr.N.Gopalakrishnan	Physics
78	413115052	Prathipkumar S (Photo should be submitted)	Magnetoelectric P(VDF-HFP)/ Ferrite Nanofiber Composite Films for Magnetic Field-tuned Photodetector Application	Dr. J. Hemalatha	Physics
79	413116007	Naveena D (Photo should be submitted)	Deposition and Characterization of CuO and CuAl(1-X)Fe _x S ₂ Thin Films as Absorber Material for Solar Cell Application	Dr. A. Chandra Bose	Physics
80	413117004	Biny R Wiston	Design and Development of Transition Metal Hydroxides for Energy Storage Application	Dr. M. Ashok	Physics
81	413117005	Shebha Anandhi J	Evaluation of the Magnetic Anisotropy	Dr. R. Justin Joseyphus	Physics

For any corrections in Title or Name (considered as per PG certificate) or queries, mail to phdsection@nitt.edu

			Dependent Heating Mechanism of Ferrites and Core-Shell Nanoparticles		
82	413913052	Abdul Rasheed I	Surface Preparation and Analysis of Fused Silica Glass Substrates with Conventional Loose Abrasive & Deterministic Grinding Techniques	Dr. B. Karthikeyan	Physics
83	414117006	Kumaran M	Experimental Studies on Stainless Steel 316L Alloy Manufactured using Powder Bed Fusion and Directed Energy Deposition	Dr. M. C. Santhosh Kumar	Production Engineering
84	414118003	Chigilipalli Bharat Kumar	Experimental Investigations on Wire Arc Additive Manufacturing of Incoloy 825	Dr. V Anandakrishnan	Production Engineering
85	414118009	Rinu Sathyan (Photo should be submitted)	An Integrated Decision Making and Predictive Analytics Approach for Managing the Responsiveness of Indian Automotive Supply Chain	Dr. P. Parthiban	Production Engineering
86	414119008	Unnikrishnan T G	Fabrication and Characterization of Molybdenum Disulfide Coated Natural Fiber-Reinforced Self-Lubricating Composites for Tribological Applications	Dr. K Panneerselvam	Production Engineering
87	414916052	Manjunath A	Investigations on Wire Electron Beam Additive Manufacturing of Ti-6Al-4V Alloy	Dr. V. Anandakrishnan	Production Engineering
88	414917057	Ramesh M	Manufacturing and Experimental Investigations on High Density Polyethylene /	Dr. K Panneerselvan	Production Engineering

For any corrections in Title or Name (considered as per PG certificate) or queries, mail to phdsection@nitt.edu

			Polybenzimidazole Composite		
89	415114003	Amirtha R (Photo should be submitted)	Influence of Family Life Cycle Stages on E-Shopping Behavioural Intention Among Indian Women	Dr V J Sivakumar	Management Studies
90	415119052	Praveen S V (Photo should be submitted)	Analyzing Social Media Users' Perceptions towards Digital Contact Tracing Apps and Wearable Sensors using Natural Language Processing Techniques	Dr. Rajesh Ittamalla	Management Studies
91	415915001	Vishnu Vivek M	Tax Capacity Assessment Leveraging Stochastic Frontier Analysis: Evidence from an Indian State	Dr. V Lavanya Dr. M Punniyamoorthy	Management Studies
92	416117004	Ramakrishna Manchi	Mathematical Modeling on Electro-Magneto Pulsatile Flow of non-Newtonian Blood through Stenotic and Aneurysmatic Arteries	Dr. R. Ponalagusamy	Mathematics
93	416117005	Sudhir Singh	Study on Nonlinear Wave Structures in Some Soliton Models	Dr. K. Murugesan	Mathematics
94	416118001	Asha Sebastian (Photo should be submitted)	Starlikeness of Certain Analytic Functions	Dr. V. Ravichandran	Mathematics
95	416118002	Murugan D	Dispersion of a Solute in Non-Newtonian Fluid Flow through a Channel and Circular Tube	Dr. R. Ponalagusamy	Mathematics
96	416119005	Somya (Photo should be submitted)	Convolution, Subordination and Radius Problems for Analytic Functions	Dr. V Ravichandran	Mathematics

M.S. (by Research)

Sl. No.	Roll No.	Name	Title of Thesis	Names of the Guide	Department
1	306919001	Jitendra Kumar (Photo should be submitted)	A Framework for Enhancing Web Security using Machine Learning Techniques	Dr. A. Santhanavijayan	Computer Science and Engineering
2	307917051	Somasundaram P (Photo should be submitted)	Development of Smart Infrastructure Monitoring Systems and Optimised Order Management for Telecom Office	Dr. S. Sudha	Electrical and Electronics Engineering
3	311118052	Sachin Kumar (Photo should be submitted)	Parametric Studies of Syngas Production in Fixed Bed Downdraft Gasification of Biomass	Dr. R. Anand	Mechanical Engineering
4	311919001	S B M Guruvayurappan	Development of Rubberized Fabric Composite for Aerospace Application	Dr. SP Sivapirakasam	Mechanical Engineering
5	313915051	Nakul Kumar	Eddy Current Thermography for Detecting Edge Defects in CrMo Steel Plate	Dr. R. Justin Joseyphus	Physics
6	313919001	Kamesh Guru G	Quality Assessment and Defect Characterization of Explosive Bonded Dissimilar Material and Tungsten Inert Gas Welded Joints by using Non-Destructive Evaluation Techniques	Dr. J. Hemalatha	Physics
7	314919001	Veeramani J	Investigation on the Influence of Successive Post Weld Heat Treatment and Successive Welding Rework of P91 Steel on Mechanical and Microstructure Properties	Dr. Sateeshkumar V	Production Engineering
8	318916004	P Suresh Kumar (Photo should be submitted)	Studies on Tungsten-Carbide Coating on EN 10025/5 Steel to Enhance the Codal Life of Bogie Side	Dr. S. P. Kumaresh Babu	CECASE

For any corrections in Title or Name (considered as per PG certificate) or queries, mail to phdsection@nitt.edu

			Frame used in Indian Railways		
--	--	--	-------------------------------	--	--

Dean (Academic)