

## Ph. D. PRODUCED

S.No	Year	Name of the Scholar	Area of research	Name of the Supervisor(s)
1	2010	Agnimitra Biswas	Experimental and computational analysis on vertical axis wind turbines	Prof. R. Gupta
2	2012	Sanjoy Kumar Dey	Studies on Productivity, Energy, Safety, Environmental Impact and CFD Analysis on Withering Process of CTC Tea Manufacturing	Prof. R. Gupta
3	2012	Kaushal Kumar Sharma	Performance Analysis of Savonius Rotor and Combination of Savonius Darrieus Rotors through Experimental and Computational Approaches	Prof. R. Gupta
4	2012	Aditya Pratap Singh	Numerical Investigation of Combustion Phenomena in Supersonic and Hypersonic Flow Regimes	Prof. K.M. Pandey
5	2012	M.S. Murthy	Soapnut Oil as a Biofuel Source for Compression Ignition Engine: A feasibility Investigation Through Engine Performance, Emission and Thermodynamic Analysis	Prof. R.D. Misra

6	2014	Probhas Bose	Investigation of Ballistics, Combustion Characteristics and Physical Properties of Solid Composite Propellant Suitable for Multi Barrel Rocket Launcher	Prof. K.M. Pandey
7	2014	Jibananda Jena	Effect of Oxygen Content In Biofuel Blends on CI Engine Performance and Exhaust Emissions through Experimental and Exergoeconomic Evaluations	Prof. R.D. Misra
8	2014	Abhijit Sinha	Productivity Analysis of CTC Tea Industries of Barak Valley with Special Emphasis on Socio-Technological Aspects	Prof. R. Gupta & Prof. K.M. Pandey
9	2015	Eswara Krishna Mussada	Material Deposition using EDM and its Post Processing for Better Surface Finish and Fabrication of Micro Structures.	Prof. P. K. Patowari

10	2015	Maneswar Rahang	Selective Material Deposition Using Powder Metallurgical Compact Tool and Masking in EDM for Pattern Generation	Prof. P.K. Patowari
11	2016	Sukanta Roga	CFD Analysis of Scramjet Combustor with Cavity Based Flame Holders and Strut Injectors at Supersonic and Hypersonic Mach Numbers	Prof. K.M. Pandey
12	2016	Bachu Deb	Experimental and Computational Analysis of Helical Savonius Rotors	Prof. R. Gupta
13	2016	Pinku Debnath	Propulsion Performance Investigation of Pulse Detonation Engine and Feasibility Study of Detonation Combustion using CFD Analysis	Prof. K.M. Pandey

14	2016	Bidesh Roy	Experimental and Computational Investigations on Shroud Modification of Shrouded Intake Valve for Performance Enhancement of SI Engine	Prof. K.M. Pandey & Prof. R.D. Misra
15	2016	Anal Ranjan Sengupta	Performance Improvement of H-rotor Vertical Axis Wind Turbines in Low Wind Speed Conditions using Experimental and Numerical Approaches	Dr. A. Biswas & Prof. R. Gupta
16	2017	Amit Kumar Singh	Machining of Micro Holes and Micro Rods using Micro EDM	Prof. P.K. Patowari & Prof. N.V. Deshpande
17	2017	Ajoy Debbarma	CFD Analysis of Rewetting in AHWR Fuel Clad During Emergency Core Cooling with Water Jet Impingement	Prof. K.M. Pandey

18	2017	Deepak Sharma	CFD Analysis of Thermal Hydraulics Behaviour of Fuel Rod using Nanofluids in Light Water Nuclear Reactor	Prof. K.M. Pandey
19	2017	Jagadish	Development of Green Manufacturing Strategies for Process Parameter Optimization on Processing of Metallic and Polymeric Materials	Dr. S. Bhowmik & Dr. A. Ray
20	2017	Arup Ratan Dey	Experimental Evaluation of Bio-Oil as Lubricant in a Stationary Bio-fuel Operated CI Engine	Prof. R.D. Misra
21	2018	Ms Sumita Debbarma	Experimental Investigation on CI Engine Performance and Exhaust Emissions using Biodiesel with Nano-Additives	Prof. R.D. Misra & Prof. N.V. Deshpande

22	2018	Abhijit Dey	Investigation on the Wire Electro Discharge Machining Behavior of Alumino Silicate Particles Reinforced AA6061 Alloy Composite Prepared by Compocasting Route.	Prof. K.M. Pandey
23	2018	Gautam Choubey	Numerical Simulation with CFD on the performance of Scramjet Combustor using multi-strut injector	Prof. K.M. Pandey
24	2018	Wangikar Sandeep Sitaram	Design and Development of Microchannel for effective Mixing of Multifluids	Prof. P.K. Patowari & Prof. R.D. Misra
25	2018	Bhabani Prasanna Pattanayak	Synthesis of Deoxygenated Biofuels and their Experimental Performance Evaluation for CI Engine Applications	Prof. R.D. Misra

26	2018	Saroj Yadav	A Comparative Thermal Analysis of Pin Fins for Improved Heat Transfer in Forced Convection	Prof. K.M. Pandey
27	2019	Sanjay Kumar Gupta	Effect of micro/nanostructured nanocomposite coated surfaces on pool and flow boiling heat transfer performance	Prof. R.D. Misra
28	2019	Subhankar Das	Silanized Carbon Fillers and its Damage Mitigation Capabilities for Potential Reinforcement in Hybrid Laminates	Dr. S. Halder
29	2019	Ashangbam Satyavrata Singh	Synthesis and Characterization of Hybrid FRP Biocomposites using Bamboo Fillers	Dr. S. Halder

30	2019	Ravi Ranjan Kumar	Surrogate based probabilistic performance assessment of sandwich plates	Dr. S. Dey & Prof. K.M. Pandey
31	2019	Sumit Das Lala	Development of bio-composite material from Cashewnut, Rubber and Walnut seed shells	Dr. A.B. Deoghare & Dr. S. Chatterjee
32	2019	Suman Debnath	Performance Evaluation of Solar Air Collector with Plain and Corrugated Absorber	Dr. Biplab Das & Dr. P.R. Randive
33	2019	Ambarish Maji	Computational Investigation for system performance enhancement of heat sink with perforated pin fins	Prof. P.K. Patowari & Dr. D. Bhanja



34	2019	Nazrul Islam Khan	Thermo-reversible healing of graphitic Nano-filler hybridized CFRP laminated composites	Dr. S. Halder
35	2019	Rahul Kumar	Experimental investigation of static and dynamic mechanical properties of lignocellulosic filler reinforced epoxy composite under diverse constraints	Dr. S. Bhowmik
36	2019	Chiranjib Bhowmik	Investigation of green energy source selection for sustainable planning	Dr. S. Bhowmik & Dr. A. Ray
37	2019	Khagokpam Gopal Krishna Singh	Synthesis of novel PCM microcapsules and their characterization for efficient thermal management of electronic devices	Dr. S. Halder

38	2019	Pradeep Kumar Karsh	Stochastic dynamic analysis of layered and graded structures	Dr. S. Dey
39	2020	Emon Barua	Development and characterization of hydroxyapatite based porous composite bone scaffold	Dr. A.B. Deoghare & Dr. S. Chatterjee
40	2020	Payel Deb	Synthesis of hydroxyapatite from fish scales to develop bone scaffold	Dr. A. B. Deoghare
41	2020	Tuhin Deshamukhya	Determination of Optimum Design parameters for the thermal performance of porous fins of various shapes using Swarm intelligence	Dr. D. Bhanja
42	2020	Monoja Kumar Sahu	Numerical investigation on the thermo hydraulic performance of a channel with various shapes of rib roughness	Prof. K.M. Pandey & Dr. S. Chatterjee

43	2020	Mithinga Basumatary	Investigations into the Combined Lift and Drag based Savonius Water Turbine	Dr. A. Biswas & Prof. R.D. Misra
44	2020	Kummitha Obula Reddy	Numerical Analysis of Mixing and Combustion of a Hydrogen Fueled Scramjet Combustor using Strut Fuel Injectors and Cavity Flame Holders	Prof. K.M. Pandey & Prof. R.D. Misra
45	2020	Noor Alom	Numerical analysis of combustion process and propulsive performance of pulse detonation engine with various operating conditions and geometrical parameters	Prof. K.K. Sharma & Prof. K.M. Pandey
46	2020	Tapas Debnath	Design and analysis of different microfeatures and their fabrication using wire EDM	Prof. P.K. Patowari
47	2020	Abhijit Borah	Analysis of Conjugate heat transfer and entropy generation for forced convection through narrow confinements	Dr. S. Pati

48	2020	Hussain M. S. M. Mazarbhuiya	Design and Development of an Asymmetric blade H-Darrieus vertical axis wind turbine for built environment	Prof. K.K. Sharma & Dr. A. Biswas
49	2020	Pannalal Choudhury	Enhancing delamination resistance of GFRP laminates using grapheme nanofiller	Prof. K.M. Pandey & Dr. S. Halder
50	2020	Ikbal Bahar Laskar	Synthesis, characterization, and application of heterogeneous catalysts in the production of biodiesel and related fuel additive	Prof. R. Gupta & Dr. S. Chatterjee
51	2020	Tankeshwar Prasad	Assessing Latent initiator based multiple healing in epoxy matrix GFRP laminated composites	Dr. S. Halder & Dr. S.S. Dhar
52	2020	Krushna Gouda	Experimental investigation for thermomechanical behaviour of hybrid filler reinforced epoxy composite.	Dr. S. Bhowmik & Dr. Biplab Das

53	2021	Krishna Roy	Investigation of Natural and Mixed Convection Heat Transfer from an Inclined Fin Array	Dr. Biplab Das
54	2021	Prabhakar Jha	Performance of Photovoltaic Thermal Air Collector in the Climatic Condition of North East India	Dr. Biplab Das & Prof. R. Gupta
55	2021	Siddhartha Kar	Micro Electrical Discharge Milling and its Parametric Study	Prof. P.K. Patowari
56	2021	Saheera Azmi Hazarika	Evaluation of thermal performance and geometric optimization of T-shaped and fork-shaped fins subjected to simultaneous heat and mass transfer	Dr. D. Bhanja
57	2021	Mohd. Zeeshan	A numerical investigation to predict thermal performance of fin and tube compact heat exchanger with various tube shapes, longitudinal vortex generators, and their spatial arrangements	Dr. S. Nath

58	2021	Debyan Dasgupta	Modeling of atomization by disintegration of liquid sheet of inviscid, viscous and viscoelastic fluid	Dr. S. Nath & Dr. D. Bhanja
59	2021	Divya Zindani	Prospect theory based decision-making approaches for green and sustainable technologies: a material selection perspective	Dr. S.R. Maity & Dr. S. Bhowmik
60	2021	Bandi Venkata Ramana Reddy	Investigation on Metallurgical Mechanical and Tribological Properties of Spray Deposited and Warm Rolled Al-Alloy	Dr. S.R. Maity & Prof. K.M. Pandey
61	2021	Bappa Mondal	Numerical investigation on mixing performance in passive and active micromixers	Dr. S. Pati & Prof. P.K. Patowari
62	2021	Lakka Suneetha	Numerical investigation on combined influence of cavity and strut profiles on combustion characteristics in scramjet combustor	Dr. P.R. Randive & Prof. K.M. Pandey

63	2021	Oveepsa Chakraborty	Experimental and comparative analysis of thermal performance enhancement in a parabolic trough collector	Dr. Biplab Das & Prof. R. Gupta
64	2022	Biswajit Roy	Uncertainty Quantification in Performance of Hydrodynamic Journal Bearing	Dr. S. Dey & Dr. L. Roy
65	2022	Manash Protim Boruah	Generation, Migration and Coalescence of Droplets: Perspective of Wettability, Inertia and Electric Field	Dr. P.R. Randive & Dr. S. Pati
66	2022	Guttikonda Manohar	AA7075/B4C/ZrC Hybrid Composite Fabricated by Powder Metallurgy Technique	Prof. K.M. Pandey & Dr. S.R. Maity
67	2022	Maisanam Anil Kr. Singh	Study of an optimal standalone micro-scale hybrid renewable energy system (HRES) for remote area electrification	Dr. A. Biswas & Prof. K.K. Sharma

68	2022	V S S Venkatesh	Mechanical and Tribological Study of Al-SiC-Kaoline Composite Fabricated Through Powder Metallurgy Technique	Dr. A.B. Deoghare
69	2022	Surendra Kumar Yadav	Analytical and CFD studies on supersonic two-stage ejector	Prof. K.M. Pandey & Prof. R. Gupta
70	2022	Papari Das	Development of Graphene Based Polymer Composites for Efficient Electromagnetic Interference (EMI) Shielding	Dr. A.B. Deoghare & Dr. S.R. Maity
71	2022	Bhosale Shrikrushna Babasaheb	Synthesis of lean steel powder metallurgical components for mechanical properties and machinability behaviour	Dr. S. Bhowmik & Dr. A. Ray (Jt. Supervisor)
72	2022	Bishal Podder	Experimental and numerical investigation of an optimized Solar Photovoltaic/Thermal Water Collector with a modified Absorber Design	Dr. A. Biswas



73	2022	Ms Vaishali	Probabilistic dynamic quantification of hybrid functionally graded sandwich shells	Dr. S. Dey
74	2022	Sumit Kumar Mehta	Investigation of transport characteristics for flow through wavy channels	Dr. S. Pati
75	2022	Bhaskar Ranjan Tamuli	Computational study on coaxial and MHPA based evacuated tube collector with energy storage for north-eastern India climatic condition	Dr. S. Nath
76	2022	Surendra Singh Yadav	Numerical investigation on the effect of wave behaviour around the thin submerged plate at a low Ursell number.	Dr. P. Deb Roy
77	2022	Dhrijit Kumar Deka	Numerical Investigations on Splitting and Coalescence Characteristics of Droplets	Dr. S. Pati

78	2022	Deepak Kumar Singh	Numerical Analysis of Wave Behavior and its Effect on the Moving Thin Plate in the Surging Direction in the Intermediate depth of Water	Dr. P.D. Roy
79	2022	Suryakanth	Hydrogen Enrichment Diesel and Biodiesel Fuel Blends in Diesel Engine- An Experimental Investigation	Dr. (Mrs.) S. Debbarma
80	2022	Jagannath Reddy	Modeling, Experimental Study and Optimization of Solar Air Collector System Using Decision Making Methods	Dr. Biplab Das Dr. Jagadish
81	2022	Ankur Gupta	Development and experimental investigations for performance evaluation of photovoltaic thermal (PVT) solar dryer	Dr. Biplab Das Dr. A. Biswas
82	2023	Lokeswar Patnaik	Experimental investigation of mechanical properties and anti-wear performance of Ag/Si doped a-C and AlCr(Si)N thin film coatings for biomedical application	Dr. S.R. Maity

83	2023	Sunil Kumar	An investigation on surface modification of hot work and cold work tool steels using plasma nitriding and thin film deposition for tooling applications	Dr. S.R. Maity
84	2023	Rajdeep Paul	Effect of Different Parametric Constraint on Tribological Behaviour of Natural Micro Filler Resin forced Epoxy Composite	Dr. S. Bhowmik
85	2023	Brajesh Kumar Kanchan		Dr. P.R. Randive
86	2023	Kumari Ambe Verma	Numerical Investigation on Transverse Fuel Injection Based Scramjet Combustor for Improvement of Combustion Efficiency	Prof. K.K. Sharma & Prof. K.M. Pandey
87	2023	Subhankar Saha	Probabilistic assessment and performance optimization of Wire-EDM of Inconel 718 and A286 alloys	Dr. S.R. Maity & Dr. S. Dey

88	2023	Pallab Sarmah	Fabrication and Machinability Study of Aluminium-Based Metal Matrix Composites.	Prof. P.K. Patowari
89	2023	Ekta Tripathi	Design Analysis and Fabrication of Spiral Micromixer for Microfluidic Applications	Prof. P.K. Patowari & Dr. S. Pati
90	2023	Durgesh Kumar Mishra	Development and Assessment of organic Based Composite Phase Change Material for Thermal Energy Storage	Dr. S. Bhowmik & Prof. K.M. Pandey (May 2023)
91	2023	Kritesh Kumar Gupta	Mechanical Properties and ballistic impact behaviour of hybrid graphene nanostructures- A machine learning approach	Dr. S. Dey & Dr. L. Roy (May 2023)
92	2023	Subrata Kushari	Randomized first ply failure analysis of laminated composite plates	Dr. S. Dey (May 2023)

93	2023	Namrata Bordoloi	Numerical Modelling and Analysis of Combined Parallel and Transverse Injected-based Scramjet Combustor	Prof. K.M. Pandey & Prof. K.K. Sharma (June 2023)
94	2023	Prince Kumar	Investigation of Transport Characteristics for Forced Convection Through Wavy Channel and Porous Media	Prof. K.M. Pandey (June 2023)
95	2023	Amatya Bharadwaj	Surface Modification by Electric Discharge Coating to Enhance Pool Boiling Heat Transfer Performance	Prof. R.D. Misra (June 2023)
96	2023	Debayan Bhowmick		Dr. P.R. Randive
97	2023	Shatarupa Biswas	Development of wire electrical discharge machining (WEDM) parametric correlation model and process optimization for different alloys	Dr. Y. Singh Dr. M. Mukherjee

98	2023	Mohammad Faizan	Thermal Management and Electro-Chemical Analysis of Fast charging/discharging Lithium-Ion Batteries	Dr. S. Pati & Dr. P.R. Randive
99	2023	Saurabh Sharma	Modelling of atomization of bulk liquid sheet of Newtonian and viscoelastic liquids sandwiched between two gas streams	Dr. S. Nath (October 2023)
100	2023	Sujit Roy	Aerodynamic Performance Analysis of a HAWT With and Without Leading Edge Tubercles on Airfoil Blades	Dr. B. Das Dr. A. Biswas
101	2024	Pallab Bhattacharjee	Numerical Analysis of Latent Heat Thermal Storage for Thermo-Heightened Performance	Dr. S. Nath & Dr. D. Bhanja (January 2024)
102	2024	Guddakesh Kumar Chandan	Experimental investigation of nanosecond fiber laser process parameters for enhancement of machining quality of Ti-6Al-4V alloy	Dr. C.K. Sahoo

103	2024	Mohd. Aslam	Finite element modeling and improvement of surface properties of mild steel specimen using AISI304 stainless steel-based cladding by Gas Metal Arc Welding (GMAW) process.	Dr. C.K. Sahoo
104	2024	Mukund Kumar	Development of Fuel injection strategies for Combustion of Hydrogen under Advanced RCCI Mode in CI Engine- An Experimental Approach	Dr. A. Paul
105	2024	Himanshu Prasad Raturi	Probabilistic Free Vibration of Porous FGM Plates- A Machine Learning Approach	Dr. S. Dey
106	2024	Sapam Ningthemba Singh	Laser shock peening of Ti6Al4V alloy fabricated by laser directed energy deposition additive manufacturing	Dr. A.B. Deoghare
107	2024	Akhileshwar Singh	Numerical Investigation of Viscous Fingering Instability in Immiscible Fluids Displacement	Dr. Y. Singh & Prof. K.M. Pandey

108	2024	Reshmi Basak	Analyzing and improvising KOH-treated jute fiber composites for medical equipment	Dr. S. Dey & Lt. Dr. Piyush P. Gohil
109	2024	Rutupurna Choudhury	Design, Development, and Control of Three Degrees of Freedom Micro Motion Positioning Stages Using Smart Actuation Technique	Dr. Y. Singh
110	2024	Vijay Kumar Mahakur	Development of Jute Filler Reinforced Composite and Evaluation of its Mechanical and Machinability Behaviour	Dr. S. Bhowmik & Prof. P.K. Patowari
111	2024	Supreme Das	Development and Analysis of a Novel Solar Air Heating System Utilizing a Nozzle-Array Jet Impingement Technique	Dr. A. Biswas & Dr. Biplab Das
112	2024	Santosh Kumar	Development of naturally derived biocomposites: Characterization and design analysis of biomaterials for prosthetic limb application	Dr. S. Bhowmik



113	2024	Binoy Kumar Baroi	Machining and Surface Modification of Titanium Alloys using Powder Mixed EDM	Prof. P.K. Patowari & Dr. Jagadish
114	2024	Mehdi Mehtab Mirad	Condition Monitoring for System Health Prediction and Tool Quality Assessment during Ultrasonic Machining of Inconel 718	Dr. Bipul Das
115	2024	Dhiraj Raj	Laser-aided direct metal deposition for in-situ repairing of turbine blades	Dr. S.R. Maity & Dr. Bipul Das
116	2024	Kanak Chandra Sarma (Oct 24)	Performance Improvement of Ultra-low head Two-stage Savonius Akin Hydrokinetic Turbine using Experimental Approaches	Dr. A. Biswas & Prof. R.D. Misra
117	2024	Alemu Workie Kebede (Oct 24)	Experimental Investigation of Micro-drilling Processes using Laser Beam Machining and Micro-EDM for AISI 304 Steel and Ti Grade 2 Alloy	Prof. P.K. Patowari & Dr. C.K. Sahoo

118	2024 (Nov)	Sanjeev Ranjan	Numerical and experimental investigation on the performance of an oscillating water column by introducing the parabolic bottom profile	Dr. P. Deb Roy
119	2024 (Nov)	Lakshi Nandan Borah	Developing delamination resistant CFRP using low cost functionalized graphite nanofiller	Dr. S. Halder Dr. P. Choudhury
120	2025 (Jan)	Vishal Mishra	Experimental investigations on recycled polymeric composites developed by extrusion-based 3D printing process	Dr. S. Negi Dr. S. Kar
121	2025 (Jan)	Parthasarathi Deb	A study on the Impact of Acetylene in CI Engines at Advanced RCCI Combustion Strategies	Dr. Abhishek Paul
122	2025 (Feb)	Jitendra Kumar	Experimental Investigation and Characterization of 3D Printed Thermoplastic Composites Produced by Fused Filament Fabrication	Dr. Sushant Negi

123	2025 (Mar)	Jnanaranjan Acharya	Advancement in Firefighter Safety: A Novel Numerical Model for Predicting Thermal Damage and Establishing Safety Criteria	Dr. D. Bhanja Prof. R.D. Misra
124	2025 (Apr)	Amarendra Deka	A Study on Development of Hydrocarbon Oils from Waste Plastic Feedstock for CI Engine Applications.	Prof. R.D. Misra
125	2025 (Apr)	Mohd Anis Ansari	Fabrication and study of magneto-rheological fluid damper for vibration attenuation in rotor dynamic systems	Dr. A. Bisoi Dr. A. Biswas