Mechanical Engineering Department, MNNIT, Allahabad

List of Ph.D. awarded (2006-2023)

S. No.	Enrolment No.	Name of the candidate	Topic	Supervisor (s)
2023				
1	2016RME01	Pradeep Kr. Yadav	Analysis of Friction Stir Welding of AZ31B Magnesium Alloy	Prof. M. K. Khurana
2	2016RME05	Srikant Tiwari	Effect of Ti-addition and Post Coating Heat Treatment on the Performance of Hydroxyapatite Coating	Dr. S. B. Mishra
3.	2015RME53	Ram Sajeevan	Experimental Investigation on Magnetic Fore-Assisted Powder-Mixed Electric Discharge Machining of Metal Matrix Composite.	Prof. A. K. Dubey
4.	2016RME13	Nandani Singh	Development and Performance Study of Electrochemical Discharge Peripheral Surface Grinding Process	Prof. Vinod Yadava
5.	2016RME03	Nilesh D. Hingawe	Numerical and experimental study on meso scale air journal bearing with texture effect.	Dr. S. P. Bhore
6.	2016RME15	Kritika Joshi	Towards the development of the T-Spline based analytical model of human lungs- A reverse engineering approach…	Prof. A. D. Bhatt
7.	2012RME02	Arun Kr. Singh	Fabrication Characterisation and Modelling of Paramid/UHMWPE Hybrid Composite	Dr. D. K. Shukla
8.	2017RME10	Umesh Kr. Singh	Develop of Experimental Set-up for friction Stir Welding and Study of Welding Performance of Dissimilar Magnesium Alloys.	Prof. A. K. Dubey
9.	2014RME10	Dhananjay Singh Yadav	Computational and Experimental Study of Performance of Domestic LPG and Biogas Cook Stoves	Dr. Bireswar Pal
10.	2016RME14	Prakash Agrawal	A Study on Digital Transformation of Supply Chain in Indian Organizations	Prof. Rakesh Narain
11.	2016RME02	Aurn Kr. Rouniyar	Development of Experimental Setup and Investigation on Magnetic Field Assisted Powder Mixed Electrical Discharge Machining of Aluminium	Dr. V. R. Komma
12.	2016RME08	Dhruv Kant Rahi	Study of Performance Characteristics in Electrochemical Surface Grinding of Hybrid Metal Matrix Composite.	Prof. A. K. Dubey
13.	2019RME53	Md. Faiyaz Ahmed	Development of Smart Quadcopter for Inspection of Overhead Power Transmission lines.	Dr. J. C. Mohanta
14.	2013RME08	Ms. Snigdha Lal	Performance Study of Different Types of Solar Dryers	Dr. Rahul Dev & Prof. Ravi Prakash

15.	2015RME05	Yogesh Tripathi	Implicit Function Based Desing and Additive Manufacturing of Triply Periodie Minimal Surface Scaffolds for Bone Tissue Engineering.	Prof. Mukul Shukla & Prof. A. D. Bhatt
16	2017RME05	Atul Chauhan	Scaffold Assisted Bone Tissue Engineering in Generative Design Framework.	Prof. A. D. Bhatt
17	2014RME02	Shyam Bihari Kaushal	Development and Performance Study of Electrochemical Diamond Face Grinding of Aerospace Super Alloy.	Dr. Audhesh Narayan

S. No.	Enrolment No.	Name of the candidate	Topic	Supervisor (s)
2022				
1	2010RME60	Abhishek Pandey	Self-Healing of Epoxy Using UF-DCPD Microcapsules	Prof. K. N. Pandey & Dr. D. K. Shukla
2	2010RME02	Reetesh Kr. Shukla	Non-Destructive life Prediction of Engineering materials under Fatigue and Fracture using Electro-Mechanical Impedance Technique.	Prof. K. N. Pandey
2021				
3	2017RME08	Shubham Tripathi	A Study on Implementation of Smart Supply Chain Management in Indian Scenario	Dr. Manish Gupta
4	2013RME10	Vevek Kumar	Development and Performance Study of Face Surface Electro-Chemical Discharge Grinding	Prof. Vinod Yadava
5	2014RME04	Garima Kushwaha	Effect of Gasoline Ethanol Blends and Lubricants on Spark Plug Deposit Characteristics and Adsorption/ Desorption Process of SI Engine.	Dr. Samir Saraswati
6	2010RME53	Arunesh Kr. Srivastava	Evaluation and Characterization of UHMVPE Ballistic Grade Composite at High Strain Rate	Prof. K. N. Pandey
7	2015RME12	Manish Dixit	Synthesis Characterization and Properties of Cu-Graphite Composite by Powder Metallurgy Route	Prof. Rajeev Srivastava
8	2016RME07	Vaibhav Srivatava	Experimental Evaluation of Self-Healing Characteristics in Aluminium Based Metal Matrix Composite Structures	Dr. Manish Gupta
9	2015RME06	Mohd. Nayab Zafar	An Optimization Approach Integrated with Artificial Potential Field Method for Mobile Robot Path Planning and Navigation Control	Dr. J. C. Mohanta
10	2014RME08	Alka Bharti	Design Fabrication and Performance Analysis of a Solar Parabolic Trough Collector.	Dr. Bireswar Paul
11	2017RME07	Sunil Singh Rana	Nanocellulose from HEMP Fibers and its Epoxy Based Bio Nanocomposites Synthesis Analysis and Characterization	Dr. Manoj Kr. Gupta
12	2018RME51	Raj Kumar Gond	Sugarcane Bagasse Nanofibers Reinforced PLA Composites for Packing	Dr. Manoj Kr. Gupta
13	2016RME09	Pankaj Kr. Gupta	Development of Aluminium Alloy Based Hybrid Metal Matrix Composites Properties, Characterization and Machining.	Dr. Manoj Kr. Gupta

S. No.	Enrolment No.	Name of the candidate	Topic	Supervisor (s)
2020				
14	2013RME56	Prashant Kr. Singh	Studies on Erosion Wear and Oxidation Behavior of Thermal Spray Coatings on Boiler Steels and Structural Steel	Dr. S. B. Mishra
15	2015RME09	Himanshu Bisaria	Study on Performance Characteristics of Ni-rich NiTi Shape Memory Alloy during Wire Electric Discharge Machining	Dr. Pragya Shandilya
16	2013RME07	Manish Sharma	Power Generation Using Solar Energy Based Organic Rankine Cycle	Dr. Rahul Dev
17	2013RME05	Sudhir Kumar Mishra	Synthesis and Characterization of Epoxy- Alumina Functionally Graded Nanocomposites.	Dr. D. K. Shukla & Dr. R.K. Patel
18	2013RME02	Arvind Katyayn	Modelling and Control of Conical Active Magnetic Bearing	Dr. P. K. Agarwal
19	2013RME04	Deepanshu Srivastava	Development of an Interface for Automatic Generation of STEP-NC (AP238) Code for Milled Features	Dr. V. R. Komma
20	2016RME06	Parul Sahu	Preparation and Characterization of Sisal/Epoxy Bio composites: Effect of Eco-Friendly Treatment and Coating	Dr. Manoj Kr. Gupta
21	2014RME01	Kirti Tewari	Design and Performance Study of Domestic Solar Water Heating System	Dr. Rahul Dev
22	2013RME55	Nitesh Kumar Dixit	Characterization of Geometrical, Mechanical & Surface Properties of Extrusion Based Low-Cost 3D Open-Source Printed Part	Prof. Rajeev Srivastava
23	2013RME58	Ramsevak Kushwaha	Challenges in Water Handling Devices: Mechanical Aspect, An Investigation for Possible Solutions	Prof. H. S. Goyal
24	2014RME05	Dilawar Husain	Energy and Environmental Assessment of Academic Buildings	Prof. Ravi Prakash
25	2016RME16	Ashok Kr. Pandey	Some Studies on Industrial Energy Conservation.	Prof. Ravi Prakash
26	2014RME03	Inayatullah	Study of Some Aspects of Mass Customization in Indian Manufacturing Organizations	Prof. Rakesh Narain
27	2015RME11	Praveen Kumar Rai	CAD Modelling and Optimization of Horn Used in Ultrasonic Machine	Prof. Vinod Yadava & Dr. R. K. Patel
28	2014RME54	Piyush Pal	Design and Performance Study of Modified Solar Stills	Dr. Rahul Dev
29	2013RME54	Anil Kumar Yadav	Synthesis, Characterization and Properties of Teak Wood Sawdust Polypropylene Based Composite	Prof. Rajeev Srivastava

S. No.	Enrolment No.	Name of the candidate	Topic	Supervisor (s)
30	2013RME53	Mohd Avesh	Performance Improvement of Light Vehicle Suspension System Under Variable Operating Conditions.	Prof. Rakesh Narain & Prof. Rajeev Srivastava
2019				
31	2014 RME 12	Pallvita Yadav	Experimental Modeling and Multi Objective Optimization of Traveling Wire Electrochemical Spark Machining of Polymer Nanocomposites	Prof. Vinod Yadava & Dr. Audhesh Narayan
32	2014 RME 53	Chetan Swaroop	Development of Polylactic Acid /Nano- Magnesium Oxide based Bio composite Films for Food Packaging Applications	Prof. Mukul Shukla
33	2014 RME 52	Tarun Bhardwaj	Laser Additive Manufacturing of Maraging Steel and Titanium Molybdenum Alloy	Prof. Mukul Shukla
34	2015 RME 07	Anas Ahmad Siddiqui	Experimental and Numerical Study of Laser surface Alloying of High Entropy Alloy	Prof. A.K. Dubey
35	2015 RME 03	Surendra Kumar Saini	Experimental and Numerical Study of Laser Trepan Drilling of Zirconia Toughened alumina Ceramic	Prof. A.K. Dubey
2018				
36	2014RME 06	Mayank Agarwal	Micro structural and Metallurgical Evaluation for Powder chip Reinforcement Processed Cast Aluminum Alloys in Semi solid Stage	Prof. Rajeev Srivastava
37	2010RME 04	Saurabh Kumar	Studies on Active Vibration Control of Mechanical Structure and Vibrational Energy Harvesting	Prof. Rajeev Srivastava & Prof. R.K. Srivastava
38	2013RME 06	Param Singh	Development and Performance Study of Ultrasonic Assisted Micro Electrical Discharge Machining Process for Aerospace superalloys	Prof. Vinod Yadava & Dr. Audhesh Narayan
39	2010 RME 08	Vijay Verma	Effect of Particle Morphology on Tensile Fracture and Fatigue Behavior of Epoxy Alumina Polymer Nano composite	Dr. D. K. Shukla
40	2012RME 53	Sunil Kumar Gupta	Effect of Nano alumina on Mechanical Properties of Epoxy Adhesive Experimental and Finite Element Analysis	Dr. D.K. Shukla
2017				
41	2009RME 60	Rajesh Prasad Verma	Optimization of GMA Welding Process Parameters to Fabricate Joints of Dissimilar AA5083-O/AA6061-T6 Aluminum Alloys and Fatigue Crack Growth Analysis	Prof. K.N. Pandey

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42	2011RME 02	Veerabhadrayya Hiremath	Synthesis and Characterization of Epoxy Alumina Nano composites Effect of Particle Morphology and post Curing Temperature	Dr. D.K. Shukla
43	2010RME 14	Patil Anil Govindrao	Functionally Graded Materials Synthesis Modeling and Analysis	Prof. A.D. Bhatt
44	2012RME 03	Hemant Kumar Singh	Some Studies on Energy Saving Through Building Insulation	Prof. Ravi Prakash
45	2013RME 03	Ashish Das	Bio ceramic Coatings on Metal Substrates by Pulsed Laser Deposition Magnetron Sputtering and Laser Rapid Manufacturing Synthesis and Characterization	Prof. Mukul Shukla
46	2010RME59	Pawan Kumar Singotia	A Comparative study of cycle-by-cycle variations in a spark ignition engine fueled with gasoline natural gas	Dr. Samir Saraswati
47	2013RME 51	Jitendra Narayan Gangwar	Performance Combustion and Emission Characteristics of a Diesel Engine Fueled with Ether Alcohol Diesel Blends	Dr. Samir Saraswati
48	2012RME 51	Bitla Venu	Development of STEP Based Feature Recognition Interface for Prismatic Parts having Elementary B- Spline and Swept Surfaces	Dr. V.R. Komma
49	2013RME 09	Ram Singar Yadav	Investigations on Hybrid Surface Electrical Discharge Diamond Grinding of Hybrid Metal Matrix Composites	Prof. Vinod Yadava
50	2013RME 01	Shamsul Haq	Experimental Investigations of wood Thermoplastic Composites for Sustainable Product Application	Prof. Rajeev Srivastava
2016				
51	2010RME06	Sandarbh Shukla	Some aspects of ERP Implementation	Prof. P.K. Mishra
52	2009RME02	Shwetank Avikal	Assembly and Disassembly Line Balancing Using Heuristic Approaches	Prof. P.K. Mishra
53	2010RME 09	Ajay Suryavanshi	Integrated FEM-ANN based Modeling and Optimization of Micro- Electric Discharge Machining	Dr. Audhesh Narayan & Prof. Vinod Yadava
54	2011RME 01	Saurabh Kumar Gupta	Modeling and Multi Objective Optimization of Friction Stir Welding Process Parameters for Joining of Dissimilar AA5083/AA6063 Aluminum Alloys	Prof. K. N. Pandey
55	2010RME 11	Anand Shivanappa Reddy	Optimization and Control of Active Magnetic Bearings	Dr. P.K. Agarwal & Dr. Satish Chand

S. No.	Enrolment No.	Name of the candidate	Topic	Supervisor (s)
56	2010RME 03	Dipak Kumar	Study of thermal fatigue and tribological behavior of Thermal Barrier Coatings n In800 and AA2024-T351 alloys with top coat by sol-gel Technique	Prof. K.N. Pandey
2015				
57	2009RME52	Rupesh Goyal	Experimental Modeling and Optimization of Hole Characteristics in Laser Trepan Drilling of Advanced Difficult-To-Cut Materials.	Dr. A. K. Dubey
58	2008RME16	Vijay Kumar Dwivedi	Analysis of Hybrid (Hydrostatic / Hydrodynamic) Journal Bearing.	Prof. K. N. Pandey
59	2010RME10	Syed Abbas Ali	Cylinder Pressure Estimation for Spark Ignition Engine using Crankshaft Speed Fluctuations	Dr. Samir Saraswati
60	2008RME02	Jyoti Vimal	Some Studies on Free Vibration Analysis of Functionally Graded Plates	Prof. R. K. Srivastava & Prof. A. D. Bhatt
61	2007RME06	Jitendra Kumar	A Systematic Approach for Modeling and Analysis of Supply Chain Network.	Prof. Nirjhar Roy
62	2010RME 57	Lokesh Singh	Material Based Meshing of Functionally Graded Material	Prof. A.D. Bhatt
63	2012RME 55	Manoj Kumar Gupta	Investigations on Hybrid Jute/Sisal Fiber Reinforced Epoxy Composite	Prof. R. K. Srivastava
2014				
64	2010RME05	Basanta Kumar Bhuyan	Traveling Wire Electro-Chemical Spark Machining Process: Development, Modeling and Optimization	Prof. Vinod Yadava
65	2007RME04	Rajesh Kumar Porwal	Modelling and Optimization of Micro Electrical Discharge Machining of Super Alloys.	Prof. Vinod Yadava
66	2009RME54	Ravinder Nath Vadav	Some Investigation on Slotted – Electrical Discharge Grinding of Hybrid Metal Matrix Composites	Prof. Vinod Yadava
67	2009RME55	Pankaj Kumar Shrivastava	A Study on Electrical Discharge Abrasive Grinding of Advanced Materials using Indigenous Experimental Setup.	Prof. A. K. Dubey
68	2008RME04	Kamal Sharma	Mechanical Properties of Carbon Fiber / Functionalized Multi-walled Carbon Nanotubes / Epoxy Multiphase Composites: Modeling, Simulation and Characterization.	Prof. Mukul Shukla
69	2008RME12	T. Ramesh	Some studies on life cycle energy analysis of residential buildings.	Prof. Ravi Prakash & Prof. K.K. Shukla
70	2008RME10	Parul Gupta	Studies on Various Aspects of Customer Satisfaction Evaluation of Indian Service Industries	Prof. R. K. Srivastava

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71	2010RME55	Vivek Srivastava	Dynamic Mechanical Characteristics of Expanded Polypropylene Under Multiple Loading.	Prof. Rajeev Srivastava
72	2008RME07	Nagendra Kumar Mishra	Studies On Oxidation, Hot Corrosion and Slurry Erosion Wear of LVOF And Detonation Gun Sprayed Coatings.	Dr. S. B. Mishra
2013				
73	2009RME01	Sanjay Mishra	Finite Element Based Simulation and Optimization of Pulsed Nd: YAG Laser Beam Percussion Drilling of Thin Sheet Metals.	Prof. Vinod Yadava
74	2007RME07	Rajeev Jain	Supplier Selection in SCM Using Integrated Data Mining- MCDM Approach in Context of Indian Manufacturing Industry	Prof. P. K. Mishra
75	2006RME06	Sanjeev Kumar Singh Yadav	Modeling and Multi- Objective Optimization of Electrical Discharge Diamond Cut-Off Grinding Process.	Prof. Vinod Yadava
76	2008RME17	Shyam Sunder	Surface-Electrical Discharge Diamond Grinding of Metal Matrix Composites: Development, Modeling and Optimization.	Prof. Vinod Yadava
77	2010RME13	Judal Kesarabhai Bhikhabhai	Some Investigations into Cylindrical Electrochemical Magnetic Abrasive Machining Process.	Prof. Vinod Yadava
78	2009RME51	Arun Kumar Pandey	A Study on Pulsed Nd: YAG Laser Cutting of Difficult-To-Laser-Cut Sheetmetal.	Prof. A. K. Dubey
79	2006RME07	Lonkar Avinash Anantrao	Structural Damage Detection Coupled with Modal Parameters.	Prof. R. K. Srivastava
80	2008RME13	Sunil Bala Wesley	Investigations on Some Ferritic Stainless Steels for Use in Cane Sugar Industry.	Prof. H. S. Goyal, and Prof. R. Kumar
81	2006RME03	Vandana Agrawal	Surface Modeling from Unorganized 3-D Point Cloud Data	Dr. Samir Saraswati & Prof. Satish Chand
82	2010RME58	Bhupendra Prakash Sharma	Study of Knowledge Sharing Barriers in the Indian Engineering Industries.	Prof. M. D. Singh

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83	2010RME54	Pankaj Kumar Srivastava	Investigation of Heat and Mass Transfer in Improved Designs of Basin Type Solar Still with Porous Absorbers.	Prof. S. K. Agarwal
84	2010RME56	Ajay Tripathi	Some Studies on Hydro-dynamics of Slug Flows inside Square Capillaries.	Prof. S. K. Agarwal
2012				
85	2008RME09	Shivedayal Pandey	Modeling and Exergy Loss Reduction in a Plate Heat Exchanger with Nanofluid as Coolant.	Dr. V. K. Nema
86	2007RME01	Amit Raj Singh	Risk Mitigation through Network Design in Supply Chain.	Prof. P. K. Mishra
87	2008RME05	Amit Sharma	Modelling and Optimization Studies of Nd-YAG Laser Beam Straight and Profile Cutting of Difficult to Cut Thin Sheet Materials	Prof. Vinod Yadava
88	2005RME01	Audhesh Narayan	Thermal Finite Element Analysis and Optimization of Abrasive Deep Surface Grinding (ADSG) Processes	Prof. Vinod Yadava
89	2004RME04	Manish Gupta	A Study on some aspects of E-Procurement in Indian Organizations	Prof. Rakesh Narain
90	2008RME08	Apurva Anand	Study of Select Issues in Knowledge Management Practices in Small and Medium Enterprises in India	Dr. M. D. Singh
2011				
91	2007RME02	Gyanendra Kumar Singh	Electro-Discharge Diamond Face Grinding: Development, Modeling and Optimization	Prof. Vinod Yadava & Prof. R. Kumar
92	2003RME03	Manoj Kumar Khurana	Some Study of Information Sharing in Supply Chain of Indian Industries	Prof. P. K. Mishra
93	2006RME09	Mohan Charan Panda	Thermal Finite Element Based Intelligent Modeling and Optimization of Electro-Chemical Spark Machining Process	Prof. Vinod Yadava
94	2006RME08	Pise Uday Vithalrao	Human Body Segment Analysis: A B-spline Based Heterogeneous Graded Element Approach	Prof. A. D. Bhatt & Prof. R. K. Srivastava
95	2004RME01	Praveen Kumar Agarwal	Modelling and Control of Active Magnetic Bearings	Prof. Satish Chand

S. No.	Enrolment No.	Name of the candidate	Topic	Supervisor (s)
2010				
96	2006RME11	Tauseef Uddin Siddiqui	Abrasive water jet cutting of continuous fiber reinforced polymer composites: Experimental studies, modeling and multi-objective optimization	Prof. Mukul Shukla
97	2006RME01	Nupur Kashyap	Job complexity and psychosocial stress factors as predictors of mental fatigue in an industrial environment	Prof. Mukul Shukla
2009				
98	2001RME01	Amar Singh	Study of some strategic issues of Supply chain management on Indian perspective	Prof. Rakesh Narain
99	2002RME03	Samir Saraswati	Air/ Fuel ratio and spark advance control of spark ignition engine	Prof. Satish Chand
100	2004RME03	Amit Rai Dixit	Heuristic based approach for comprehensive design of cellular manufacturing system	Prof. P. K. Mishra
101	2006RME02	Ravi Kant	Select Study of Impact of Knowledge in supply Chain Effectiveness doe Indian Industries.	Prof. M. D. Singh
2008				
102	2002RME02	Rajeev Srivastava	Optimization of Solid Lubricant Assisted Machining Parameters by Response Surface Methodology	Prof. R. K. Srivastava
103	2005RME06	Avanish Kumar Dubey	Experimental Modeling and Multi-Objective Optimization of Nd: YAG Laser Cutting of Thin Sheets	Prof. Vinod Yadava
104	2004RME08	Ravi Mahadevrao Warkhedkar	Human Body Modelling: A Heterogeneous B-Spline Based Approach	Prof. A. D. Bhatt
2007				
105	2002RME01	Om Pal	Design and Analysis of Supply Chain Management System for An Electronic Industry	Prof. Satish Chand
106	2002RME04	Uday C. Kapale	Pressure Drop and Heat Transfer Coefficient Modeling and Optimization of Shell and Tube Type Heat Exchangers.	Prof. Satish Chand
2006				
107		M. R. Stevens	Investigation of flow through U-turn and return channel of multistage centrifugal pumps	Prof. R. Yadava