

Mechanical Engineering Department Ph.D Completed in RIT Centre

Sr. No	Name of student Dr/Mr/Ms	Title of Thesis	Name of Faculty Prof./Dr.	Name of University	Name of Department	Date of Completion	Date of Ph. D. Award
1	Mr. Rajaram Madhukar Shinde	Development And Experimental Investigations Of Automotive Drive Shaft Using Epoxy Composite Material..	Dr. Suresh Maruti Sawant	Shivaji University, Kolhapur	Mechanical Engineering Department	2022	22-03-2022
2	Mr. Mahesh Vasantrav Pisal	Experimental Investigations Of Low Temperature Drying And Pulverizing System For Jaggery Powder.	Dr. Sanjaykumar Shankarrao Gawade	Shivaji University, Kolhapur	Mechanical Engineering Department	2022	23-03-2022
3	Mr. Vishal Ganpatrav Salunkhe	Mathematical And Experimental Studies Of Dynamic Characteristics Of Rolling Element Bearing Using Dimensional Analysis And Support Vector Machines	Dr. Ramchandra Ganpati Desavale	Shivaji University, Kolhapur	Mechanical Engineering Department	2022	26-07-2022
4	Mr. Ramesh Shamrao Gavade	Split Casing Pump With Customised Innovative Features For Operational Reliabilities	Dr. Suresh Maruti Sawant	Shivaji University, Kolhapur	Mechanical Engineering Department	2022	27-12-2022
5	Mr.Prasad Vishwasrao Shinde	Fault Diagnosis Of Rotor Bearing System Based On Model - Based- Matrix Method (MBMM) And Competitive Learning Method	Dr. Ramchandra Ganpati Desavale	Shivaji University, Kolhapur	Mechanical Engineering Department	2023	18-01-2023
6	Mr. Mahadev Bapu Kumbhar	Experimental Investigation And Dynamic Characterization Of A Ferro Fluid For A Magnetorheological Fluid Damper	Dr. Ramchandra Ganpati Desavale	Shivaji University, Kolhapur	Mechanical Engineering Department	2023	31-10-2023
7	Mr. Pratik Ashokrao Patil	Synthesis Of Environment Friendly Nano Cutting Fluid And Investigation Of Tool Life In Micro Drilling Process	Dr. Sachin Krishnath Patil	Shivaji University, Kolhapur	Mechanical Engineering Department	2024	13-06-2024
8	Mr. Rahul Uday Urunkar	Numerical Investigation In Heat And Mass Transfer Enhancement Of Metal Hydride Hydrogen Storage Reactor Using Nano Fluids	Dr. Sharad Dattatrya Patil	Shivaji University, Kolhapur	Mechanical Engineering Department	2024	13-08-2024
9	Mr. Sachin N.Sawant	“Experimental investigation of various micro tool electrodes in micro electric discharge drilling process for Ti-6Al-4V”	Dr. Sachin Krishnath Patil	Shivaji University, Kolhapur	Mechanical Engineering Department	2024	Submitted

10	Mr. Ganesh L. Suryawanshi	Study on Dynamic Analysis of Rotor Bearing System with Coupling and local Defect	Dr. Sachin Krishnath Patil	Shivaji University, Kolhapur	Mechanical Engineering Department	2024	Submitted
11	Mr. Pradipkumar Gavali	Performance Investigation of microchannel Evaporator in Automotive Air conditioning system	Dr. S. D. Yadav	Shivaji University, Kolhapur	Mechanical Engineering Department	2024	Submitted

Ongoing Ph.D. Work (Students)

Sr. No.	Department	Name of Ph.D. Guide	Name of Ph.D. candidate	Title of Research Project	Year of Reg.
1.	Mechanical	Dr. S.M. Sawant	Chendke Ghanashyam M.	Some Analytical, Computational and Experimental Studies on the Performance of Water Cooler Evaporator	2018-2019
2.	Mechanical	Dr. S.S. Gavade	Gawade Swapnil S.	An experimental investigation of influence of design parameters on composite propeller shaft used in automotive application	2018-2019
3.	Mechanical	Dr. S.S. Gavade	Gunjavate Prashant V.	Development and Testing of an Indoor Air Quality of Liquid Desiccant Air Conditioning (LDAC) system.	2018-2019
4.	Mechanical	Dr. S.S. Gavade	Lavate Shital A.	Design, Development and Testing of Electromagnetic Vibration Absorber	2018-2019
5.	Mechanical	Dr. S.D. Yadav	Gavali Pradipkumar M.	Performance Investigation of Microchannel Evaporator in Automotive Air Conditioning System Process by Using Membrane Technology	2018-2019
6.	Mechanical	Dr. S.D. Yadav	Awasure Anant D.	Performance Analysis of Low Cost CH ₄ Enrichment process by using Membrane Technology	2018-2019
7.	Mechanical	Dr. S.D. Yadav	Pawar Kiran P.	Parametric investigation of combustion, Performance and emission of hydrogen- CNG filled SI engine	2018-2019
8.	Mechanical	Dr. S.D. Yadav	Maner Vasim B.	An experimental investigation and analysis of the effect of DI diesel engine operating with oxygen enriched hydrogen gas	2018-2019

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				on performance and emissions.	
9.	Mechanical	Dr. R.G. Desavale	Koli Avadhut R.	Some Studies on Vibration Control of Structure using Shape Memory Alloy and Magneto-rheological Elastomer	2018-2019
10.	Mechanical	Dr. R.G. Desavale	Desai Meghshyam Mohan	Investigation of tribological performance of functionally graded aluminium alloy/alumina metal matrix composite	2020-2021
11.	Mechanical	Dr. S.K. Patil	Kolekar Kailas B.	Investigation on Effect of Friction Stir Process (FSP) on Properties of Aluminium Alloys/Composites	2018-2019
12.	Mechanical	Dr. S.K. Patil	Suryawanshi Ganesh L.	Study on dynamic analysis of rotor bearing system with coupling and local defects	2018-2019
13.	Mechanical	Dr. S.D. Patil	Patil Sujit H.	Experimental and numerical analysis of low global warming potential R1234YF /nanoparticles refrigerant in vapour compression system for cold chain management.	2018-2019
14.	Mechanical	Dr. S.D. Patil	Kharat Pradip T.	Numerical investigation of nano material doped complex metal hydride hydrogen storage reactors for fuel cell applications	2018-2019
15.	Mechanical	Dr. S.D. Patil	Powar Kanhaiya P.	Thermal Modeling and Experimental Investigation of Passive Cooling of Electric Vehicle Battery using Composite Material	2018-2019
16.	Mechanical	Dr. A. P. Shah	Ansar Mulla	Experimental Investigation of Combustion and Emission for various Biodiesel Blends extracted from non-edible oils.	2020-2021
17.	Mechanical	Dr. A. P. Shah	Kumbhar Yogesh Balaso	Numerical and Experimental investigation of Heat Transfer Enhancement in Finned Flat Tube and Finned Oval Tube Heat Exchanger Using Vortex.	2020-2021
18.	Mechanical	Dr. S.D. Patil	Jamdade Sunil Sharad	Experimental investigation on machinability improvement of difficult to cut material in CNC machining using various hybrid bio-coolants	2020-2021

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19.	Mechanical	Dr. S.K. Patil	Jadhav Suhas R	Investigation of surface roughness and MRR in micro turning process on Ti-6AL-7Nb with minimum quantity cooling lubrication	2020-2021
20.	Mechanical	Dr. S.K. Patil	Sane Nilesh M	Synopsis not submitted	2021-2022
21.	Mechanical	Dr. L.M. Jugulkar	Miss Jyoti V Raste	Design Development and Performance of semiactive Mono suspension with regular swing arm for two-wheelers	2021-2022
22.	Mechanical	Dr. A. P. Shah	Deepak Dinkar Ubale	Study and development of Fibre reinforced Epoxy Granite for Machine tool structural applications	2021-2022
23.	Mechanical	Dr S R Desai	Sandeep Jadhav	Synopsis not submitted	2021-2022
24.	Mechanical	Dr. R G Desavale	Ms. Asmita Mali	Synopsis not submitted	2022-2023
25.	Mechanical	Dr Satyajeet R. Patil	Mr. Parvej Fakir	Synopsis not submitted	2022-2023
26.	Mechanical	Dr. R G Desavale	More Indrajeet Dinkar	Theoretical and Experimental Studies of Dynamic Characteristics of Rotor Bearing System Considering Local Defect and Misalignment	2023-2024
27.	Mechanical	Dr. R G Desavale	Patil Sharadchandra Shrikant	Some studies on dynamic characteristics of dual rotor of cylindrical roller bearing with localized defects and misalignment	2023-2024
28.	Mechanical	Dr. R G Desavale	Gosavi Pravin Sambhaji	Some studies on vibration characteristics of rotor-bearing system using digital twin techniques	2023-2024
29.	Mechanical	Dr. A. P. Shah	Anuradha Jathar	Experimental and Numerical investigation of heat transfer in fin arrays with perforations and extensions	2023-2024
30.	Mechanical	Dr. A. P. Shah	Anand G. Koparde	Numerical and experimental investigation for fatigue behaviour of Ti-6Al-4V alloy manufactured by additive manufacturing	2023-2024
31.	Mechanical	Dr S R Kumbhar	Bhosale Bharat Yashavant	Investigating the Impact of Wire Coiled Inserts on Heat Transfer Characteristics in Heat Exchangers: Experimental and Computational Analysis	2023-2024

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32.	Mechanical	Dr S R Kumbhar	Siddha Uttam Yashvant	Advanced Modal Analysis of Automotive Seats: A Computational Approach with FEM Software and Experimental Methods	2023-2024
33.	Mechanical	Dr S R Kumbhar	Sapakal Surekha Vishnu	Experimental Investigation of MS (T-20) using Activated Flux for Metal Inert Gas (MIG) Welding by Sensitivity Analysis	2023-2024
34.	Mechanical	Dr S R Kumbhar	Patil Rohit Bhagawan	Investigation of Incipient Cavitation in Centrifugal Pumps by Non-Intrusive Detection	2023-2024
35.	Mechanical	Dr S S Shirguppikar	Wakode Pranali V	Synopsis submitted	2023-2024
36.	Mechanical	Dr S S Shirguppikar	Lomdhe Anuya G	Synopsis submitted	2023-2024
37.	Mechanical	Dr S S Shirguppikar	Janugade Smita V	Synopsis submitted	2023-2024
38.	Mechanical	Dr S S Shirguppikar	Kulkarni Akshay M	Synopsis submitted	2023-2024