



Fr. C. Rodrigues Institute of Technology, Vashi
(An Autonomous Institute & Permanently Affiliated to University of Mumbai)

Department of Mechanical Engineering

Major Project Details -Academic Year- 2025-2026

GRP NO.	ROLL NO.	NAME OF THE STUDENT	Project Title	Guide	Category (Internal/External)
1	2022216	Rane Darshana Dasharath	Development of a Prediction Model for Weld Joint Strength by varying Process Parameters	Dr. Nilaj Deshmukh	Internal
	2022212	Pingulkar Kshitij Navin Manali			
	2022221	Sanap Akash Maruti Chaya			
	2022208	Pandhare Ajay Babasaheb			
2	2022154	Chikane Siddhant Shankar	Modelling and diagnosis of dynamic faults in epicyclic gearbox using Hamilton's principle and finite element analysis	Dr. Vishal Salunkhe	Internal
	2022145	Bapat Anay Atul Anushka			
	2022159	Dodiya Mann Dharmesh Binita			
	2021171	Misquith Christon Stephen Avil Joyce			
3	2022101	Aditya S Sivaraman K Kirthika S	Study of payload effects on longitudinal stability of an unmanned aerial vehicle	Mr. Afzal Ansari	Internal
	2022168	Kamble Kavita Arun Mangalbai			
	2022123	Jadhav Akash Balkrishna			
	2021143	Pagare Karuna Vinayak Lata			
4	2022116	Deshpande Tanvi Nilesh Mayura	Experimental and Numerical Fault Analysis of Bevel Gear using Lumped Parameter Model	Dr. Amit Malgol	Internal
	2022139	Mane Atharva Suryakant			
	2022109	Bhole Arya Devidas Rujuta			
	2021112	Chaugule Aryan Vinod Vinaya			
5	2022206	Norita Sabu Reena	Analysis of effect of mechanical vibrations on welding properties of dissimilar metals	Mr. Deepak Devasagayam	Internal
	2022201	Nachan Mohammad Umar Sameer			
	2022235	Thakur Anurag Devikant Anshu			
	2022228	Sharma Anand Ravindra			


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6	2022253	Rane Omkar Nitin Archana	Design and development of six degree of freedom robotic arm	Dr. Amit Malgol	Internal
	2022152	Chaugule Rushank Sunil Kavita			
	2022251	Phanasgaonkar Varun Ajay			
	2022248	Patil Arya Pramod			
7	2022225	Sarode Anjali Satish Meera	Evaluation of centrifugal pump faults through empirical modelling experimental vibration analysis & CFD simulation	Mr. Afzal Ansari	Internal
	2022169	Kasbe Subodh Vijay Sushma			
	2022233	Singh Vishalkumar Suresh			
	2022231	Shirsat Nikhil Adinath			
8	2022259	Surwade Ayush Mahendra Jyoti	Precise fault identification in rotor bearing system with empirical model and finite element analysis	Dr. Vishal Salunkhe	Internal
	2022146	Bhoir Prathmesh Umesh			
	2022263	Watare Manish Balram			
	2022258	Surve Vedang Avinash			
9	2022210	Phadnis Adwait Amit Pradnya	IoT based Integration on Portable Offline filtration system for Predictive Maintenance using AI Algorithms	Dr. Dhananjay Panchagade	Internal
	2022204	Nair Ritesh Prakashan Rajani			
	2022246	Paremal Eshwar Suresh Swapna			
	2022218	Sakalle Hansin Deepak Medha			
10	2022167	Kalsekar Yusuf Mohammed Junaid S.	Design and Development of Battery Swapping and Recharging Station for Multi-rotor Drones	Mr. Afzal Ansari	Internal
	2022163	Hamdulay Zainulabidin Hamza			
	2022166	Kadam Manish Maruti Manisha			
	2021158	Jobin Jacob Shiny			
11	2022226	Sarode Vishal Mukund	Experimental investigation on SS316L weld overly dilution using CMT	Dr. Krishnan Sivaraman	Internal
	2022131	Karale Prathamesh Hemant			
	2022207	Pande Om Prashant Suchita			


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12	2022255	Sarnobat Tanmay Laxman	Oxidation and tribological performance of thermal spray coating on SS316L	Dr. Sanjay Rukhande	Internal
	2022267	Vare Om Kachar Hemlata			
	2022234	Sonkusare Vinay Ravindra			
	2022262	Wankhede Shreyas Milind			
13	2022134	Koley Asutosh Jaharlal Rita	Stabilization of fluid interfaces in lifting hele shaw cells using geometric anisotropies.	Dr. Bharatbhushan Kale	Internal
	2022137	Mali Prasad Rajendra Rohini			
	2022105	Ansari Amaan Sadre Alam			
	2022108	Bansode Pranav Gaspar			
14	2022103	Anjarlekar Srushti Shripad	Integrated analytical and finite element approach for fault detection in worm gears	Dr. Vishal Salunkhe	Internal
	2022165	Jalke Prajwal Prashant Prerna			
	2021110	Bera Shubhradeep Dilip Soma			
	2021130	Jadhav Manomay Pravin Pooja			
15	2022102	Agarwal Harsh Nitin Payal	Design, Fabrication & Comparative Analysis of Magnetic Coupling	Dr. Bharatbhushan Kale	Internal
	2022128	Kamal Sudheer Usha			
	2022158	Dev Laukik Prashant Chhaya			
	2022129	Kanade Mihir Vinayak Sarita			
16	2022161	Dusane Srujan Ajit Amita	Comparative study of capillary tube configuration using experimental and Numerical approaches	Mr. Badal Kudachi	Internal
	2022164	Howal Atharva Ganesh Priya			
	2021118	Deshpande Arya Vijay Rajshri			
	2021111	Bhosale Shwetank Nitin			
17	2022118	Divekar Sahil Suresh Samidha	Design and fabrication of an Automated grass cutting machine	Mr. Amar Murumkar	Internal
	2022138	Malve Durvesh Satish Neelam			
	2021228	Sawant Sahil Uttamkumar			
	2022121	Gahivade Manas Nandkishor			

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18	2022242	Mohite Pratham Dilip Varsha	Design and Fabrication of Automated Medical Waste Segregator	Dr. Amit Malgol	Internal
	2022170	Kenrick Wilson			
	2022104	Anjes K Justin Thomas Ancy			
	2021146	Avhad Govind Tukaram			
19	2022239	Kokare Mayur Mohan Aasha	Design & Development of AUV for cargo transportation with directional control	Mr. Deepak Devasagayam	Internal
	2022238	Khan Areeb Salim Parveen			
	2022250	Phalasamkar Prathamesh Rajaram			
	2022229	Shetkar Ojasvi Milind Madhura			
20	2022142	Ansari Maroof Husain	Self-Adjusting Center of Gravity (CG) System for Unmanned Aerial Vehicle to Maintain Longitudinal Stability.	Mr. Afzal Ansari	Internal
	2022135	Kaustubh Sanjay Lamkhade			
	2022124	Rui Jagannath Jadhav			
	2021115	Chourasia Dipesh Dinesh			
21	2022266	Pandey Siddesh Chhotelal	Experimental and Numerical investigation of a double disc unbalanced rotor	Dr. Aqleem Siddiqui	Internal
	2022256	Shaikh Mohammed Kaif Abdul			
	2022261	Vishwakarma Sandeep			
22	2022130	Kanetkar Aaryan Prasad	Characterization of WAAM 3D printed Aluminium Alloy 6061	Dr. Krishnan Sivaraman	Internal
	2022213	Pujari Ashmit Kiran Swati			
	2022244	Narkar Ratnesh Santosh Sneha			
	2022247	Patil Aditya Sanjay Rani			
23	2022241	Nachan Zaid Shums Seemin	Modifying manual to automated manual transmission	Dr. Aqleem Siddiqui	Internal
	2022265	Thorat Aditya Prakash Sujata			
	2022257	Shinde Siddhesh Ganesh			
	2021241	Wagh Nihar Chandrashekhar			



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24	2022237	Yadav Aniket Rakeshkumar	Multi-Machine Job Sequencing for flow time minimization	Dr. Prasad Bari	Internal
	2022203	Nair Ayush Naresh Rashmi			
	2022232	Shirsat Sarthak Uday Nidhi			
	2022227	Shah Meet Deven Jalpa			
25	2022219	Sakpal Prasad	Design and Development of an Intelligent Conveyor System for Multi-Parameter Segregation of Fasteners From Scrap	Dr. Nilaj Deshmukh	Internal
	2022202	Naik Dadu Arvind Rakhi			
	2022211	Phatak Omkar			
	2021216	Padwal Harsh Sanjay			
26	2022150	Bobade Aniket Hanmant Sunita	Dynamic fault Identification in 3-stage Epicyclic Gearbox using Rayleigh beam model and machine learning	Dr. Vishal Salunkhe	Internal
	2022157	Dede Amit Dattatray Indu			
	2022162	Ghare Amar Bajirav Sangita			
	2022149	Singh Bisht Dhruv Bhupendar			
27	2022141	Ambulkar Tanmay Vishnu Vimal	Integrated mechatronics system for automated surface mount device (SMD) assembly	Dr. Dhananjay Panchagade	Internal
	2022151	Chalke Ishan Pradeep Uma			
	2022155	Choudhary Prem Vijaykant			
	2022156	Coelho Gladston Alwyn Anita			
28	2022144	Bane Utkarsh Umesh Vaibhavi	Mitigation of losses in lithium ion batteries	Mr. Syed Arif	Internal
	2022148	Bhoite Hrushikesh Nilesh			
	2022160	Dsouza Larson Vhiyani Josephine			
	2022120	Fernando Rohan Silvester			
29	2022112	Chaugula Karuna Veerbhadrappa	Numerical & Experimental study of vertical axis wind turbine profile for highway application	Mr. Badal Kudachi	Internal
	2022114	Darvesh Arsalan Nazakat			
	2022117	Dhoble Vardhan Mahendra Sai			
	2022133	Khandge Avishkar Mohan			



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30	2022122	Gonji Sahil Anant Ankita	Surface Microtopography Based Fault Detection And Analysis in Two-Stage Helical-Spiral Bevel Gear Transmission	Dr. Amit Malgol	Internal
	2022132	Khandare Yash Subhash Seema			
	2022136	Mali Manas Nishchal			
	2022140	Mule Sujal Balu			
31	2022240	Mendon Krish Satish Dipti	Experimental Investigation and Test-Rig Development for Seismic-Resilient Pre-Engineered Building (PEB) Frames	Dr. Aqleem Siddiqui	External
	2022243	More Amisha Ankush Manisha			
	2022245	Parab Atharva Pramod Rupa			
	2022249	Patil Prathamesh Santoshkumar			
32	2022153	Chaurasia Snehal Balram Rekha	Optimization of heat dissipation & airflow in TIG welding machine	Mr. Badal Kudachi	External
	2022115	Desai Maithili Shreyas Ketaki			
	2022252	Phondke Vidnyesh Mahadev			
	2022254	Sarang Atharva Mahesh			
33	2022147	Bhoir Yash Avinash Anjali	Smart manufacturing framework for hybrid additive-subtractive CNC operation	Mr. Sunny Sarraf	External
	2022268	Mane Parth Sajesh Dipali			
	2022260	Tarlekar Akshat Sanjay Sujata			
	2022264	Zagade Shubham Datta Dakashata			

Nilesh Varkute /Mr. Varad Deshpande
Coordinator, Major Project

Dr. Aqleem Siddiqui
Head, Mech. Engg. Dept.