

**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- 2024-2025**

GRP NO.	ROLL NO.	NAME OF THE STUDENT	Project Title	Guide	Category Internal/External
1	2021151	Dinkar Sumedh Sudhir	Design & Fabrication of Wind Turbine and Integration with Solar Powered Renewable Energy System.	Mr. Nilesh Varkute	External
	2021248	Panchal Saurav Haresh			
	2021162	Kulkarni Anish			
	2021160	Kanekar Chakresh			
2	2021164	Gupta Nikhil Vinod	Controlling Thermo Acoustic Instability using Pulsating Air Jets.	Dr.Nilaj Deshmukh	Internal
	2021145	Aashish Madhavi			
	2021148	Chavan Rohan Vitthal			
	2021156	Jagtap Sarthak M.			
3	2021108	Bandagar Harsh A.	Development of Pneumatically Operated Pick and Place Machine for Assembly of Electronic Components.	Dr. Dhanjay Panchagade	Internal
	2021138	Kavale Rugved V.			
	2021116	Dalvi Shardul C.			
	2021119	Fulwariya Anil			
4	2021101	Aigalikar Mahika	Heat and Air Flow Optimization of TIG Welding Machine.	Mr.Badal Kudachi	External
	2021104	Athul Krishna T. B.			
	2021132	Jambhale Kaustubh			
5	2021237	Singh Shashank	Development of an Infrared Device for Damage Detection and Location in Structures.	Mrs. Suvarna Rode	Internal
	2021262	Shubham Sahil			
	2021167	Meshram Sanchit			
	2021170	Mirza Baig Hanna			
6	2021163	Kumawat Deepak	Wire arc additive manufacturing of aluminium alloys.	Dr. Krishnan Sivaraman	Internal
	2021105	Awasare Prathamesh			
	2021257	Shaikh Kaif Dilawar			
	2021139	Kazi Junaid Javed			
7	2021235	Singh Aditya	Design and Fabrication of oil shield.	Mr. Praseed Kumar	Internal
	2021233	Shirole Siddhi Jayram			
	2021221	Poojari Ansh Krishna			
	2021236	Singh Anand S.			



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8	2021218	Parlikar Raj Atul	Design and Fabrication of a Marine Thruster using Magnetohydrodynamics.	Dr. Aqleem Siddiqui	Internal
	2021219	Patil Prathamesh			
	2021217	Panchal Viral Kamlesh			
	2021220	Pereira Neil Robert			
9	2021240	Vernekar Dhruv	Haptic Feedback and Rider Assistance System for Blind-spots in Two and Three Wheelers.	Dr. Aqleem Siddiqui	External
	2021229	Shedge Prathamesh			
	2021259	Shelar Siddhesh Atul			
	2021166	Mahimkar Mithil			
10	2021253	Salunkhe Atharav	Optimizing Weld Joint Efficiency of Coated Mild Steel to Aluminium Weld produced by Cold Metal Transfer.	Dr. Krishnan Sivaraman	Internal
	2021268	Varhadi Om Vijay			
	2021252	Mokashi Swapnil			
	2021269	Veturkar Ayush Prasad			
11	2021261	Shingare Siddhik	Design and development of Remote controlled tow vehicle for small aircrafts.	Mr. Afzal Ansari	Internal
	2021256	Sawant Aditya Satish			
	2021260	Shinde Pundlik			
	2021271	Wavhal Piyush V.			
12	2021230	Shetty Udit Rajesh	Closed Loop Active Control Method for Suppression of Thermo-Acoustic Instability with ML Application.	Dr. Nilaj Deshmukh	Internal
	2021213	Naik Atharva Prasad			
	2021153	Gharat Atharv Sameer			
	2021134	Kabra Anuj Abhay			
13	2021207	Magar Pranav N.	Investigation of APS & HVOF Sprayed Ni Based Coating for Cyclic Oxidation.	Dr. Sanjay Rukhande	Internal
	2021201	Khan Rayyan Rehan			
	2021211	Mhatre Vinit Prakash			
	2021209	Mhatre Krishnendu			
14	2021125	Gharat Satvik	Design and Development of a Cargo Container Transfer System.	Mrs. Suvarna Rode	Internal
	2021270	Wagle Saeem Samir			
	2021159	Mulani Aftab Munaf			
	2021245	Mungekar Prathmesh			
15	2021205	Lele Mohit Sameer	Design and Development of Neuro Prosthetic Arm.	Mr. Sunny Saraf	Internal
	2021215	Nikam Shravan			
	2021106	Ayush Pankaj			
	2021210	Mhatre Mihir Ashok			


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16	2021129	Jadhav Aditya R.	Ranking of Job Sequencing Rules using Multi Criteria Decision Making.	Dr. Prasad Bari	Internal
	2021154	Gondhali Prathamesh			
	2021168	Mhatre Rohit Anant			
	2021149	Dalal Ujwal Prashant			
17	2021273	Zope Hemant Sanjay	Tribological Investigation of APS and HVOF Sprayed NiCrBSiFe Coatings on SS316L for Gate Valves in Nuclear Reactor.	Dr. Sanjay Rukhande	Internal
	2021250	Powale Shardul S.			
	2021147	Bankar Shubham Anant			
	2021254	Samant Tanvi Gajanan			
18	2021109	Baviskar Rohan K.	Fault detection in rotary machine using machine learning approach.	Ms. Shamim Pathan	Internal
	2021265	Sutar Prayag Santosh			
	2021208	Marri Aaryan			
	2021157	Jambhale Purva Raju			
19	2021264	Singh Akhil Sanjay	Design and Development of Hydrogen Production System.	Mr. Badal Kudachi	Internal
	2021263	Singh Abhishek			
	2021223	Rejoy Roy George			
	2021272	Zambare Om Girish			
20	2021226	Sastry Ananya S.	Experimental Investigation on Thermal Performance of Electric Vehicle Battery System Using the Phase Change Material.	Mr. Badal Kudachi	Internal
	2021251	Rao Anish Prakash			
	2021212	Nadar Emmanuel Arul			
	2021255	Sartape Ankita J.			
21	2021204	Kumawat Pradeep	Design and Development of Electromyography Integrated Exoskeleton for Rehabilitation.	Mr. Sunny Saraf	Internal
	2021231	Shinde Mayuresh			
	2021243	More Yash Sunil			
	2021242	Yewale Amey Prasad			
22	2021247	Nandgaonkar Aryan	Analysis and Optimization of heat sink for solar battery charger.	Mr. Afzal Ansari	Internal
	2021266	Thale Arin Ashish			
	2021267	Thali Ayush Dinesh			
	2021258	Sharma Khushi			
23	2021150	Date Mrudul Sanjay	Automotive Safety: Design, Prototyping & Study of Braking system by inducing eddy current.	Mr. Arif Syed	Internal
	2021155	Jagave Shivanand			
	2021246	Naik Maitrey Sachin			
	2021152	Gage Amey Uttam			



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24	2021131	Jadhav Sahil	Design and Development of Solar Powered Electric Vehicle.	Dr. Aqleem Siddiqui	Internal
	2021103	Ansari Sajid Ahmed			
	2021127	Gupta Sumit Yogesh			
	2021113	Chauhan Prajwal			
25	2021234	Siddhivinayak Mahadani	Vibrational Analysis of Helical Gear Assembly using Dimensional Analysis and Finite Element Analysis.	Dr. Vishal Salunkhe	Internal
	2021239	Vaze Gaurish Shailesh			
	2021232	Shinde Shivam Alankar			
	2021161	Katkar Srushti Rajesh			
26	2021122	Gandhe Atharv Mukesh	Design & Fabrication of Aquatic Debris Cleaning Machine.	Mr. Bipin Mashilkar	Internal
	2021133	Kabadi Rishikesh			
	2021114	Chipkar Om Rajesh			
	2021121	Gajare Sarvesh			
27	2021140	Khairnar Dhananjay	Design and Fabrication of Gesture Controlled Robotic Arm for Surgical Equipment Handling in Operation Theatre.	Dr. Bharat Kale	Internal
	2021144	Rakshit Bohra			
	2020134	Soshte Shantanu			
	2021136	Kamble Jayesh G.			
28	2021135	Kadam Rohit Pradeep	Time study analysis of assembly of welding machine.	Mr. Deepak Devasagayam	External
	2021137	Karkera Harsh Naresh			
	2021102	Ankith Pradeep			
	2021169	Micheal Vasanth			
29	2021126	Ghare Yash Samir	Solar Powered Beach Cleaner.	Dr. Dhanjay Panchagade	Internal
	2021124	Ghag Adwait Sanjay			
	2021227	Sawant Rohan Sanjay			
	2021165	Mahale Riya Jitendra			
30	2021128	Hanji Veeresh V.	Design and Fabrication of Two Wheel Drive Forklift.	Mr. Kamlesh Sasane	Internal
	2021202	Khan Raziq Ur Rahman			
	2021206	Maaz Masood			
	2021141	Khan Muneeb Suhail			
31	2021107	Bagul Atharva Trusar	Identification of Bearing Unbalance with Rayleigh Method and Artificial Neural Networks.	Dr. Vishal Salunkhe	Internal
	2021238	Sonawane Ujjwal			
	2020210	Benjamin Leon Sam			

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32	2020137	Tambe Sanskrut Mahesh	Design and Development of Hybrid Motorcycle.	Mr. Amar Murumkar	Internal
	2020141	Ukirde Pratham B			
	2020216	Fulzele Nimish Nagsen Pradnya			
	2020239	Masih Adit Alfred Jyoti			

Nilesh Varkute / Shankar Waghmode
Coordinator, Major Project

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