



## Fr. C. Rodrigues Institute of Technology, Vashi

(An Autonomous Institute & Permanently Affiliated to University of Mumbai)

### Department of Mechanical Engineering

#### Mini Project Details -Academic Year- 2024-2025

##### Sem V&VI -Div A

Group No.	Roll No.	Name of the student	Title of the Project	Category (Internal/External), If external, mention Name of the Organization	Name of the Guide
A1	2022143	Ashutosh R	Experimental and Simulation Study for Characterisation of Thermo-acoustic Instability and its Suppression based on Operating Parameters	Internal	Dr. Nilaj Deshmukh
	2022147	Bhoir Yash Avinash			
	2022161	Dusane Srujan			
	2022164	Howal Atharva			
A2	2022115	Desai Maithili Shreyas	Development of a Ceramic 3D printing machine	Internal	Mr. Sunny Sarraf
	2022135	Lamkhade Kaustubh			
	2022170	Kenrick Wilson			
	2022124	Jadhav Rui			
A3	2022167	Kalsekar Yusuf	Active Trajectory Control of Model Rocket	Internal	Mr. Varad Deshpande
	2022105	Ansari Amaan			
	2022166	Kadam Manish Maruti			
	2022163	Hamdulay Zainulabidin			
A4	2022150	Bobade Aniket Hanmant	Modelling and simulation of spur gear by using FEA for compound fault diagnosis	Internal	Dr Vishal Salunkhe
	2022149	Bisht Dhruv Singh			
	2022157	Dede Amit Dattatray			
	2022162	Ghare Amar Bajirav			
A5	2022154	Chikane Siddhant	Thermal Analysis of a Automobile radiator using CFD analysis	Internal	Dr. Bharat Kale
	2022131	Karale Prathamesh			
	2022152	Chaugule Rushank			
	2021146	Govind Avhad			



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A6	2022116	Deshpande Tanvi	Development of Aero-Elastic Tailoring Techniques for Aircraft Wing Flutter Reduction	Internal	Mr. Afzal Ansari
	2022139	Mane Atharva			
	2022158	Dev Laukik Prashant			
	2022121	Gahivade Manas			
	2022129	Kanade Mihir Vinayak			
A7	2022134	Koley Asutosh	Flutter Analysis and shape optimization of wrap-around fins on an armament rocket	Internal	Mr. Afzal Ansari
	2022137	Mali Prasad Rajendra			
	2022159	Dodiya Mann Dharmesh			
	2022123	Jadhav Akash			
A8	2022118	Divekar Sahil Suresh	Design and Fabrication of Automated Pneumatic Hacksaw Machine	Internal	Mr. Amar Murumkar
	2022102	Agarwal Harsh			
	2022104	Anjes K Justin			
	2022109	Bhole Arya Devidas			
	2022128	Kamal Sudheer			
A9	2022101	Aditya S	Design and analysis of miniature vapour compression refrigeration system	Internal	Mr. Afzal Ansari
	2022142	Ansari Maroof Husain			
	2022169	Kasbe Subodh Vijay			
	2022108	Bansode Pranav Gaspar			
A10	2022114	Darvesh Arsalan	Design and CFD analysis of shell and tube heat exchanger	Internal	Mr. Juned Kazi
	2022112	Chaugula Karuna V			
	2022117	Dhoble Vardhan			
	2022133	Khandge Avishkar			
A11	2022103	Anjarlekar Srushti	Analyzing Bearing clearance faults: A multi disciplinary Approach using vibration and FEA techniques	Internal	Dr. Vishal Salunkhe
	2022138	Malve Durvesh Satish			
	2022146	Bhoir Prathmesh			
	2022165	Jalke Prajwal Prashant			



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A12	2022141	Ambulkar Tanmay	Design and Development of 3- DOF Inventory Management Robot Using Arduino	Internal	Mr. Kishor Mane
	2022155	Choudhary Prem			
	2022156	Coelho Gladston Alwyn			
	2022151	Chalke Ishan Pradeep			
A13	2022148	Bhoite Hrushikesh	Design and Fabrication of Geneva mechanism operated conveyor with sorting system	Internal	Dr. Sanjay Rukhande
	2022120	Fernando Rohan			
	2022160	Dsouza Larson Vhiyani			
	2022144	Bane Utkarsh Umesh			
A14	2022136	Mali Manas Nishchal	Design, Analytical Evaluation and Optimization of 4WD Two Stage Gear Transmission	Internal	Dr. Sanjay Rukhande
	2022140	Mule Sujal Balu			
	2022132	Khandare Yash			
	2022122	Gonji Sahil Anant			
A15	2022153	Chaurasia Snehal	Design and Development of an IOT based automated watering system for Home/domestic application	Internal	Dr. Nilaj Deshmukh
	2022130	Kanetkar Aaryan Prasad			
	2022145	Bapat Anay Atul			
	2022168	Kamble Kavita Arun			
A16	2021110	Bera Shubhradeep Dilip	Design and Development of Solar Desalinator	Internal	Mr. Badal K.
	2021111	Bhosale Shwetank			
	2021112	Chaugule Aryan Vinod			
	2021118	Deshpande Arya Vijay			
	2021130	Jadhav Manomay Pravin			
A17	2021115	Chourasia Dipesh Kumar	Design and development of seed sowing machine	Internal	Mr. Kamlesh Sasane
	2021143	Pagare Karuna Vinayak			
	2021158	Jobin Jacob			
	2021171	Misquith Christon Stephen			



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### Sem V&VI -Div B

Group No.	Roll No.	Name of the student	Title of the Project	Category (Internal/External), If external, mention Name of the Organization	Name of the Guide
B1	2022255	Sarnobat Tanmay	Design and Development of Automated Aquaponic System	Internal	Mr Nilesh Varkute
	2022259	Surwade Ayush Mahendra			
	2022261	Vishwakarma Sandeep			
	2022268	Mane Parth Sajeesh			
B2	2022239	Kokare Mayur Mohan	Exergy analysis of VCR system using MATLAB Simulink	Internal	Dr. Bharat Kale
	2022252	Phondke Vidnyesh			
	2022256	Shaikh Mohammed Kaif			
	2022265	Thorat Aditya			
B3	2022251	Phanasgaonkar Varun	"Portable Pediatric Ventilator – Structurally Optimized for Reliable and Adaptive Respiratory Control"	Internal	Mr. Sunny Sarraf
	2022258	Surve Vedang Avinash			
	2022262	Wankhede Shreyas Milind			
	2022264	Zagade Shubham Datta			
B4	2022206	Norita Sabu	Optimising Disc Brake System of an ATV to Maximize it's Turning Capability	Internal	Mr. Syed Arif
	2022201	Nachan M. Umar			
	2022235	Thakur Anurag			
	2022228	Sharma Anand			
B5	2022219	Sakpal Prasad Dattaram	Prioritization of sequencing rules in job scheduling using PROMETHEE -GAIA	Internal	Dr. Prasad Bari
	2022237	Yadav Aniket			
	2022234	Sonkusare Vinay			
	2022211	Phatak Omkar Pralhad			
B6	2022216	Rane Darshana	Design and Fabrication of a Dehumidifier	Internal	Mr. Afzal Ansari
	2022221	Sanap Akash Maruti			



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	2022207	Pande Om Prashant			
	2022208	Pandhare Ajay			
<b>B7</b>	2022226	Sarode Vishal Mukund	Design and development of thermal energy storage system using nanofluid	Internal	Mr. Nilesh Varkute
	2022204	Nair Ritesh Prakashan			
	2022232	Shirsat Sarthak Uday			
	2022218	Sakalle Hansin Deepak			
<b>B8</b>	2022266	Pandey Siddesh	IOT Based Railway Line Fault Detection System.	Internal	Mr. Amit Malgol
	2022245	Parab Atharva Pramod			
	2022267	Vare Om Kachar			
	2022247	Patil Aditya Sanjay			
<b>B9</b>	2022212	Pingulkar Kshitij Navin	Design, Development and Fabrication of an Egg Incubator System	Internal	Mr. Bipin M.
	2022203	Nair Ayush Naresh			
	2022202	Naik Dadu Arvind			
	2022229	Shetkar Ojasvi Milind			
<b>B10</b>	2022210	Phadnis Adwait Amit	Design and Development of an Automated Component Sorting System based on their Shape by Digital Image Processing.	Internal	Mr. Varad Deshpande
	2022213	Pujari Ashmit Kiran			
	2022246	Paremal Eshwar Suresh			
<b>B11</b>	2022241	Mohammad Zaid Nachan	Develop a smart safe Helmet	Internal	Dr. Bharat Kale
	2022243	More Amisha Ankush			
	2022257	Shinde Siddhesh			
<b>B12</b>	2022225	Sarode Anjali S	Experimental Investigation Of Evaporative Air Cooler Using Different Pad Materials.	Internal	Mr. Juned Kazi
	2022240	Mendon Krish Satish			
	2022227	Shah Meet Deven			
	2022233	Singh Vishalkumar			



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<b>B13</b>	2022253	Rane Omkar Nitin	Design and Development of Novel Contactless Magnetic Transmission	Internal	Mr. Amit Malgol
	2022242	Mohite Pratham Dilip			
	2022244	Narkar Ratnesh Santosh			
	2022248	Patil Arya Pramod			
<b>B14</b>	2022254	Sarang Atharva Mahesh	Fault analysis in machineries using simulation study	Internal	Ms. Shamim pathan
	2022260	Tarlekar Akshat Sanjay			
	2022263	Watere Manish Balaram			
	2022250	Phalasangkar Prathamesh			
<b>B15</b>	2022238	Khan Areeb Salim	Design and analysis of Vertical Axis Wind Turbine using CFD	Internal	Mr. Juned Kazi
	2022249	Patil Prathamesh			
	2022231	Shirsat Nikhil Adinath			
<b>B16</b>	2021216	Padwal Harsh Sanjay	Design and fabrication of air purifier and humidifier using water as a filter	Internal	Mr. Amit malgol
	2021224	S Hiruthik Suyambu			
	2021228	Sawant Sahil Uttamkumar			
	2021241	Wagh Nihar			

  
**Ms. Suvarna Rode**

**Name and Signature of  
Project Coordinator**

  
**Dr. Aqleem Siddiqui**

**Name and Signature of  
Head of the Department**