



**Fr. C. Rodrigues Institute of Technology,  
Vashi, Navi-Mumbai**

**Department of Mechanical Engineering**

**Mini Project Details -Academic Year- 2023-2024**

**Sem VI-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
1	2021145	Aashish Madhavi	Design and Development of Pulsating Air Flow Mechanism	Internal	Dr. Nilaj Deshmukh
	2021148	Rohan Chavan			
	2021156	Sartak Jagtap			
	2021164	Nikhil Gupta			
2	2021108	Harsh Bandagar	Design and Analysis of a Bunker/Shelter for Cold and Extreme Climatic Conditions.	Internal	Mr. Mathewlal Thomas
	2021116	Shardul Dalvi			
	2021119	Anil Fulwariya			
	2021138	Rugved Kavale			
3	2021113	Prajwal Shrichand Chauhan	Design and fabrication of a pneumatic rod bending machine	Internal	Mr. Deepak Devasagayam
	2021127	Sumit Yogesh Gupta			
	2021131	Sahil Nandkishor Jadhav			
	2021140	Dhananjay Milind Khairnar			
4	2021109	Baviskar Rohan Kantilal	Design and Development of a prototype of Rocker Boogie Mechanism	Internal	Dr. Aqleem Siddiqui
	2021125	Satvik Gharat			
	2021126	Yash Ghare			
5	2021160	Chakresh Laxman Kanekar	3D Printer filament extruder	Internal	Mr. Prasad Bari
	2021168	Rohit Anant Mhatre			
	2021149	Ujwal Prashant Dalal			
6	2021163	Deepak Kumawat	IOT based condition monitoring or fault diagnosis of a rotary machine	Internal	Mr. Praseed Kumar
	2021105	Prathamesh Awasare			
	2021167	Sanchit Meshram			
	2021161	Srushti Katkar			
7	2021151	Sumedh Dinkar	Design and development of Earth air tunnel heat exchanger	Internal	Prof. Nilesh Varkute
	2021153	Atharv Gharat			
	2021147	Shubam Bankar			
8	2021135	Rohit Pradeep Kadam	Aquatic debris cleaning machine	Internal	Prof. Afzal Ansari
	2021134	Anuj Kabra			
	2021139	Junaid Kazi			
	2021121	Sarvesh Gajare			



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9	2021122	Atharv Mukesh Gandhe	Mechanical Linkage Movement using Gears	Internal	Dr. Sanjay Rukhande
	2021133	Rishikesh Kabadi			
	2021102	Ankith Pradeep			
	2021165	Riya Jitendra Mahale			
10	2021128	Veeresh Hanji	Fabrication of automatic brake failure indicator	Internal	Dr. Aqleem Siddiqui
	2021137	Harsh Karkera			
	2021136	Jayesh Kamble			
	2021169	Micheal Vasanth Nadar			
11	2021144	Rakshit Bohra	Landmine detector drone	Internal	Prof. Afzal Ansari
	2021103	Sajid Ahmed Ansari			
	2021107	Bagul Atharva			
	2021170	Mirza Baig Hanna Yusuf Zafar			
12	2021154	Prathamesh Vijay Gondhali	Thermoelectric Generator	Internal	Prof. Neha Pandit
	2021106	Ayush Pankaj			
	2021114	Om Rajesh Chipkar			
13	2021150	Mrudul Date	Switchable Drive for BAJA Vehicle	Internal	Dr. Dhananjay Panchagade
	2021155	Shivanand Jagave			
	2021157	Purva Jambhale			
	2021152	Amey Gage			
14	2021129	Aditya Jadhav	Design and Fabrication of Solar Powered Seed Sprayer Machine	Internal	Prof. Nilesh Varkute.
	2021124	Advait			
	2020134	Shantanu Soshte			
	2021141	Khan Muneeb Sohail			
15	2021162	Anish Kulkarni	Design and Development of an Advanced Air Pollution Monitoring System for Industries.	Internal	Prof. Praseed K.
	2021166	Mithil Mahimkar			
	2021159	Aftab Mulani			
16	2021104	Athul Krishna T B	Energy Harnessing Using Vertical Axis Wind Turbine	Internal	Prof. Badal K.
	2021132	Jambhale Kaustubh Sunil			
	2021101	Aigalakar Mahika Milind			

**Sem VI-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
1	2021201	Rayyan Khan	Design and Development of 5-axis Robotic Arm with Pick & Place Function	Internal	Mr. Kamlesh Sasane
	2021206	Maaz Masood			
	2021207	Pranav Magar			
	2021210	Mihir Mhatre			



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2	2021247	Aryan Nandgaonkar	Prosthetics Design of Feet for the Age Group 5-16	Internal	Mr. Sunny Sarraf
	2021255	Ankita Sartape			
	2021258	Khushi Sharma			
	2021266	Arin Thale			
3	2021231	Mayuresh Shinde	Escape window in cars	Internal	Prof. Syed Arif
	2021233	Siddhi Shirole			
	2021234	Siddhivinayak Mahadani			
	2021235	Aditya Singh			
4	2021202	Raziq Khan	Design and Development of Lower Limb Exo Skeleton with 2 Degree of Freedom (Knee and Ankle)	Internal	Mr. Kamlesh Sasane
	2021212	Emmanuel nadar			
	2021217	Panchal viral			
	2021262	Shubham Sahil			
5	2021261	Siddhik Shingare	Fault Diagnosis in Rotating Machine using Vibration Analysis	Internal	Ms. Shamim Pathan
	2021270	Saeem Wagle			
	2021257	Kaif Dilawar Shaikh			
	2021269	Ayush Veturkar			
6	2021205	Mohit Lele	Internal Fire Suppression System for Electric Vehicles	Internal	Mr. Syed Arif
	2021239	Gaurish Vaze			
	2021221	Ansh Poojari			
	2021232	Shivam shinde			
7	2021237	Shashank Singh	Data driven machine learning approach for identification of defects in rotary machines	Internal	Prof. Pallavi Khaire
	2021226	Ananya Sastry			
	2021242	Amey Yewale			
8	2021204	Pradeep Kumawat	Automatic Hydroponic System	Internal	Prof. Nilesh Varkute
	2021219	Prathamesh Patil			
	2021223	Rejoy Roy George			
	2021227	Rohan Sawant			
9	2021260	Pundlik shinde	IR Sensor based 3D Scanner	Internal	Ms. Suvarna Rode
	2021273	Hemant zope			
	2021254	Tanvi samant			
	2021271	Piyush wavhal			
10	2021156	Aditya Sawant	Solar Water desalinator	Internal	Dr. Bharat Kale
	2021265	Prayag Sutar			
	2021251	Anish Rao			
	2021267	Ayush Thali			
11	2021218	Raj Parlikar	Smart Classroom Management	Internal	Dr. Aqleem Siddiqui
	2021240	Dhruv Vernekar			
	2021213	Atharva Naik			
	2021220	Neil Pereira			
12	2021264	Singh Akhil Sanjay	Fabrication of zero energy consumption water pump	Internal	Prof. Nilesh Varkute
	2021246	Maitrey Naik			
	2021243	Yash Sunil More			



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13	2021253	Atharav Salunkhe	Design and Fabrication of Automatic Aqua Hydroponic System	Internal	Prof. Nilesh Varkute
	2021259	Siddhesh Shelar			
	2021208	Aaryan Marri			
	2021252	Swapnil Mokashi			
14	2021248	Saurav Panchal	Design and Analysis of BTMS for EV Battery	Internal	Ms. Neha Pandit
	2021229	Prathamesh Shedge			
	2021238	Ujjwal sonawane			
15	2021263	Abhishek Singh	Design and Development of linear motor based solenoidal valve	External TriQual Cryogenics Pvt. Ltd. Mumbai	Dr. Vishal Salunkhe
	2021211	Vinit Mhatre			
	2021272	Om Girish Zambare			
	2021245	Prathamesh Mungekar			
16	2021250	Shardul powale	Design and Development of Wireless DAQ system	Internal	Ms. Pallavi Khaire
	2021268	Om varhadi			
17	2021215	Shravan Nikam	Aerodynamics comparative analysis of airfoils for low speed aircraft	Internal	Prof. Afzal Ansari
	2021230	Udita Shetty			
	2021236	Anand Singh			
	2021209	Krishnendu Mhatre			

**Ms. Suvarna Rode  
Project Coordinator**

**Dr. Aqleem Siddiqui  
Head of the Department**