

MANJARA CHARITABLE TRUST
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI
 (Permanently Affiliated to University of Mumbai)
DEPARTMENT OF MECHANICAL ENGINEERING

PROJECT-I & II (2023-2024)

All faculties are requested to

1) Write appropriate Domain and Category of Project guided by you. Please refer domain and category given below

Project Category	Project Domain
Application	Manufacturing
Product	Design Design & Manufacturing
Research	Thermal and Fluids
Review	Mechatronics and Robotics

2) Complete PO and PSO Mapping for your respective project group

Sr. No.	Group No.	Name of Student	Topic/Title of the Project (To be entered by Guide)	Name of Project Guide	Project Category	Project Domain	PO Mapping	PSO Mapping
1	1	Sushant Ghurup Mohammed Fawaz Khan Chintan Mahale Rishab Maurya	Design and Fabrication of Library management robot	Dr. R.V. Kale	Application	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
2	2	Shubham Deepak Dixit Rituja Dhananjay Kotangale Aditya Namadeva Yash Sameer Madkaikar	Design and Fabrication of Tilt rotor vertical take-off and landing aircraft with customisation capabilities	Dr. R.V. Kale	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
3	3	Anuj Palande Siddhesh Patil Mohak Save Jay Vartak	Design of phase changing material based thermal energy storage	Dr. R.V. Kale	Product	Thermal and Fluids	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
4	4	Maahir shaikh Abhishek singh MUNISHKUMAR RADHA KRISHAN Hrishikesh bandgar	Lake water condition monitoring system	Dr. N.B. Shahapure	Product	Mechatronics and Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
5	5	VARUN VASANI OM LAD AMAL MERAI JIGAR TUKADIA	Nanofresh: Extending shelf life using nanofibres	Dr. N.B. Shahapure	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
6	6	Chinmay Holmukhe Nirgun Pawar Rahul Kakade Geetanjali Kolekar	Design and Fabrication of Amphibian vehicle	Dr. Y.P. Deshmukh	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2

7	7	Sahil Khatri Aakash Gonde Akbar Sayyad Prity Nath	Design, modelling, and development of vertical take-off and landing (VTOL) with weight optimisation and avionics selection	Dr. Y.P. Deshmukh	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
8	8	Shantanu Vinod Naik Amej Jeetendra Mestry Mrunmesh Naresh Rikame Tanmay Sadashiv Masurkar	Design and Implementation of a Robotic arm with stability monitoring	Prof. P. R. Paul	Research	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
9	9	Priten Parmar Harshvardhan Pandit Romil Parmar Vaibhav Shingote	Automated gear inspection using computer vision	Prof. P. R. Paul	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
10	10	Sahil Bhatt Nainesh Panchal Soham Bhujle Suyog Ahirekar	Design and Fabrication of motion sensing and firing turret	Dr. A. V. Gotmare	Application	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
11	11	Fiza Shaikh Zuhair Khan Saad Shaikh Aadil Parkar	Design and Fabrication of Oil skimmer	Dr. A. V. Gotmare	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
12	12	Yogeshwar Pathade Shubham Yelve Eshank Pawar Manish Sawant	Design and Fabrication of Condensor Unit	Prof. N. K. Deshmukh	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
13	13	Aman Shaikh Ammar Shaikh Rishabh Singh Zakaurrehman Shaikh	Design and analysis of adiabatic air coolers	Prof. N. K. Deshmukh	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
14	14	Ayush Etam Manas Darji Tejas Keni Arya Pawar	Electricity generation using domestic waste	Dr. A. G. Londhekar	Application	Mechatronics and Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
15	15	Rohan Shivaji Nalawade Prasad Dadasaheb Kadam Harsh Dnyaneshwar Vaidya Hanzala Maknoja	Design and Fabrication of Electric recumbent cycle	Dr. A. G. Londhekar	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
16	16	Mohit Sah Karan Mangela Chirag Chauhan Sarathak Sukhthankar	Multi-swing arm all terrain vehicle bike	Prof. R.M. Siddiqui	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
17	17	Shreya Avjekar Mohd Shams Yazdani Mallick Sayli Chowdhary Dishant Patil	Rose water production using solar energy	Prof. R.M. Siddiqui	Product	Thermal and Fluids	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
18	18	DHANAWADE ADESH RAJESH KARE GURUDEV RAMCHANDRA KATE PRATIK CHANDRAKANT JOGDAND OM VAJANATH	Plant disease detection robot using artificial intelligence	Prof. Nikhil V.S.	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
19	19	GALANDE CHAITANYA RAJENDRA GALVE HARESH DASHARATH KARANDE SIDDHESH KASHINATH CHAVHAN KRUTIK KOMAL	Design and Fabrication of Multipurpose agricultural machine	Prof. Nikhil V.S.	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2

20	20	MANISH DUBEY	Extraction of mercury from CFL waste	Prof. Pravin Gupta	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		BHAGYESH SONDAGAR						
		ASHUTOSH SHUKLA						
		PRIYANSHU SHARMA						
21	21	Prithviraj S Deogude	Solar pasteurisation	Prof. Pravin Gupta	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		Saigan Bhagat						
		Shams Chaugle						
		Jagjit Singh Bhamra						
22	22	PALSHETKAR SOHAM SAMEEP	Design and Fabrication of Pneumatic sheet metal cutting	Dr. K. M. Chaudhari	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		BIRJE ADITYA DEEPAK						
		BARI SAHIL DILIP						
		PAILKAR ROHI SHEKHAR						
23	23	AMAN BADDELA	Predictive maintenance of rolling element using vibration analysis and machine learning techniques	Dr. K. M. Chaudhari	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		TEJAS BHAGAT						
		PRANAY KATKE						
		PRATHAM GURAV						
24	24	GHAG NAYAN RAVINDRANATH	Design and analysis of Electric vehicle power train	Prof. S.D. Gaikwad	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		Sayujya lohar						
		Divya madav						
		Yogesh Kailashpathi Kolkondi						
25	25	Yagnesh Patel	Design and Development of Ankle exoskeleton	Prof. S.D. Gaikwad	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		Yagnik Patel						
		Ritik Prajapati						
		Sahil Rane						
26	26	Chinmay Rane	Data acquisition and telemetry in automotive industry	Prof. M.R. Valse	Product	Mechatronics and Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		Aaditya Masane						
		Vedant Rawool						
		Suyash khot						
27	27	Rohit kishor Yeole	Electricity generation using vehicle suspension	Prof. M.R. Valse	Review	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		Darshan thakare						
		Sagar waghmode						
		Sumit anthal						
28	28	SURVE MAYUR RAVINDRA	Design and Fabrication of Dual side shaper machine	Prof. R.Y. Kurane	Review	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		BOLDHANE AKASH APPASAHEB						
		SANDIM AARYA PANDURANG						
		SOLANKI DEVENDRA						
29	29	ABHISHEK DORNAL	Multidirectional solar tracking IOT based system	Prof. R.Y. Kurane	Product	Mechatronics and Robotics	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PO12	PSO1, PSO2
		TARUN LAKHAVATRI						
		ROHIT BODHUNA						
		RAJRATNA KUWAR						
30	30	Tirth Dinesh Darji	Design and Development of Experimental shock absorber test-rig	Prof. N.N. Bhostekar	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		Rugved Bhushan Lohar						
		Varun Nitin Sakalkale						
		Keval Sanjay Ved						
31	31	SAURABH KELUSKAR	Design and Fabrication of Ornithopter	Prof. N.N. Bhostekar	Product	Design & Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		SONU LAD						
		ROHIT KATKE						
		BHARGAV KAWA						
32	32	SHAH BHAVYA MITESH	Remote controlled robotic arm using radio frequency	Dr. N.J. Panaskar	Product	Mechatronics and Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		RATNAPARKHI BHARGAVI						
		SONAR JAYESH VASANT						
		PALYE TUSHAR MANOHAR						
33	33	Om Hule	Improving automotive sector using lean six sigma	Dr. N.J. Panaskar	Product	Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2
		Aaditya Kurte						
		NALAWADE SHIVANI DILIP						
		Smital Nagap						