

**Pillai HOC College of Engineering & Technology, Rasayani**

Department of Mechanical Engineering

**ME Project Details**

Sr No	Year of ME Completion	Name of the Student	Title of Project
1	2012 - 13	Kambale Tanaji	Reliability centered maintenance methodology to reduce downtime of system in water supply system
2		Dhoke Amar	Experiment investigation of processes and performance parameters of turning operation on EN- 31 steel using Design of experiment- A Taguchi Approach
3		Dhanokar Manisha	CFD and DOE to study the effect of solar chimney tower radius and height
4		Thavai Rahul	Kinematic dynamic modelling & simulation of biped robot
5		Borkar Devendra	Mathematical modelling of one wheel robot stabilized by reaction wheel principle using Kane's method
6		Jhadhav Sangram	Mathematical modelling humanoid robotic arm
7		Meshram Nitesh	Experimental analysis of single crack detection using fast Fourier Transform (FFT) analyzer
8		Sirsat Shrikant	Design and optimization of connecting rod
9		Patil Ravindra	Crack analysis of composite structures
10		Mane Uvaraj	Design and analysis of large opening end closures of pressure vessel for high pressure and quick opening application
11		Ranveer Abhijeet	Design and Analysis of Attachment of Sugarcane Harvester for a Tractor
12		Sandip Kumar	Crack analysis of thin walled pressure vessel by using finite element analysis
13		Chor Prafula	Spur gear contact stress analysis and stress reduction
14		Kor Ashwini	Parametric optimization of drilling machining process
15		Vairagi Priti	An Experimental Study Of Influence Of Turning Parameters On Surface Roughness And Mrr Using Multiple Regression
16		More Dayanand	Design and analysis of ACME and square threaded Screw Jack
17		Deshmukh Kiran	Numerical simulation of enhancement of heat transfer in tube with and without rod helical tape swirl generators
18	2013 - 14	Karjatwala Shabbir	Dynamically stabilized single wheel Robot with reaction wheel Principle
19		Tare Dinesh	Static and Dynamic Analysis of Impeller of Centrifugal Blower
20		Shashi Sankyan	Design, development and control of a ball balancing robot
21		Deshmukh Girish	Static and dynamic analysis of threaded pipe of pressure vessel
22		Mate Aniket	Thermal Analysis of Silencer
23		Bhagat Kaustubh	Study and Optimize influence of process parameters such as speed, feed, depth of cut to maximize output responses such as surface
24		Dongare Manoj	Design and analysis of seed drill ground opener.
25		Nargolkar Pratiksha	Analysis of Engine Crank Shaft
26		Kadam Ashwini	Structural Analysis of Deep Groove Ball Bearing to improve performance
27		Pasi Bhavesh	Structural analysis of inflatable material
28		Dumbre Aniket	Analytical development and modal analysis six cylinder diesel engine crank shaft
29		Raut Pratik	Dynamic Modelling Simulation and control Design of drive & reaction wheel bot
30		Mange Mahesh	Investigation and optimization of two cylinder crankshaft by FE analysis
31		Shinde Aditya	PSA Modelling of Multi Unit Nuclear Power Plant

32		Bankar Jyoti	Structural analysis of hyper elastic material
33		Chavan Neeta	Analysis of Gear Box casing
34		Pathan Imran	Experimental analysis of multicylinder horizontal opposed piston compressor used in process industries
35		Patil Maheshkumar	To investigate heat loss of a fluid flowing through a pipeline for turbulent flow
36	2014 - 15	Kadam Sagar Sanjay	Mathematical Modeling & Simulation with animation of ball balancing robot
37		Gholap Nitin Namdeo	Investigation and optimization of metal inert gas welding process parameters to improve quality of the similar metal joint by design
38		Bawane Shyam Diwakar	CFD Analysis and design of Venturi Wind Mill
39		Thakur Sanket Sadashiv	Non Linear Analysis of Connecting Rod
40		Kulkarni Amey Ujwal	Design of conical fixture to avoid damage for torque bush assembly
41		Shaikh Sameer Babajan	Design and Analysis of driver seat for unoccupied luggage retention using ERC R17 Regulation
42		Andhale Priyanka Rajesh	Investigation of Sol-Gel Method of coating Nano particles manufacturing process by using Design of Experiments
43		Nichat Priyanka Nitin	Design and Analysis of driver seat for rear impact using FMVSS 301 Regulation
44		Bhoir Swapnil Suresh	Mathematical model development & Optimization of clearance between Punch and Die in sheet metal blanking process
45		Bhosale Rahul Abasaheb	Mathematical Modelling & Simulation of Quad copter- UAV using PID Controller
46		Sakharekar Sharad D	Design and Analysis of Pendulum test rig for frontal impact test as per ECE R29.
47		Prabhudesai Apoorva R	Fatigue life prediction of Dental Implants
48		Patil Pradip Sitaram	Numerical simulation of lightning static mixture with perforated holes
49		Salunkhge Swapnil Vasant	Design and Analysis of Drill Jig for cooling tower fan hub
50	2015 - 16	Chikhale Madhavi Arun	Design and analysis of 4T overhead stack crane
51		Gaikwad bhaskar Krishna	Lunkenheimer grinding cap
52	2016 - 17	Mr. Pratik Kasbe	Design of rail guided vehicle utilized in the scrap charging process in the steel industry
53	2017 - 18	Ms. Prajakta Thale	Optimal design and investigation of pressure vessel shell for increasing strength to weight ratio
54		Ganesh Jagtap	Design and analysis of paper support roller and shaft assembly of paper slitter - rewinder
55	2018 - 19	Ms. Patil Ashwini	Characterization and development of Mechanical properties of biocompatible material
56	2019 - 20	Mr. Kulkarni Mahesh B.	Design of pressure relief valve with Buffer chamber
57	2020 - 21	Mr. Pushpesh Singh	Design and Analysis of High-Volume Low Speed (HVLS) Fan for Room size 16m x 12m x 16m
58	2021 - 22	Mr. Ankur Modi	Support analysis for the agitator mounted fixed cone roof storage tanks
59		Mr. Prakash Jha	Effect and analysis of different silicon content on Aluminium based alloy
60		Ms. Pooja Patil	Optimization of leaf spring for better performance
61	2022 - 23	Ms. Mhatre Shrisharada	Design and Analysis of Medium Utility Chassis of Heavy Motor Vehicle (HMV)
62		Ms. Makone Rupali Prakash	Design and development of heat treatment assembly for coating process
63		Ms. Pol Varsha	Study of air recirculation zone in shared spaces
64		Mr. Patil Kunal Bharat	The Development of Composite made from recyclable, and environment friendly materials (HDPE and EPDM)
65		Mr. Mahadeo Sabale	Design of venturi turbine to recover waste air energy in industrial applications
66		Ms. Patil Aishwarya	Design and analysis of tilt table for testing transmission and internal gear box
67		Mr. Patil Abhijit Ashok	Design and Analytical Reconstruction of Centrifugal Pump to Increase the Hydraulic Performance by Varying Number of Blades and Blade Outlet Angle