



## DEPARTMENT OF MECHANICAL ENGINEERING

### List of Final Year Projects Completed by Students

#### Academic Year: 2022-23

1. Research of Single Pedal Regenerative Drive
2. Design and development of a multi-purpose VTOL device
3. Radiant Cooling System & its scope and relevance in the Green Energy Sector
4. Modelling of a Biomimetic Arm with the aim to provide prosthesis
5. Design and Optimisation of Supermileage Vehicle
6. Research and Development of Shock absorber
7. Development and prediction of CVT parameters
8. Evaluating statistical tolerance in automobile components using Monte Carlo simulation technique
9. Design and Development of Fractal Vise
10. Testing of various fluids for liquid cooled thermal system of an FSAE car
11. Design and Analysis of Electronic Differential
12. Design and Analysis of ASD Closure Device
13. Design and Fabrication of Carbon Footprint Reducing Device
14. Optimization of End Milling Parameters on Hybrid Composites using Response Surface Methodology
15. Design and analysis of a ball-type valve
16. Design and fabrication of crop plucking machine
17. Design and fabrication of a multipurpose prototype for an all terrain vehicle
18. Design and Fabrication of a Mechanical Ventilator
19. Design and Analysis of Air Purifier
20. Design of a gearless transmission using a data driven approach
21. Design of Real-Time Product Defect Detection System
22. Using Machine Learning



23. Mechanical Battery using Flywheel
24. 360 Degree Fire Protection System
25. Design and Development of Electromagnetic Induction Braking System
26. Design & Development of a Quadcopter
27. Study of Material Science using Machine Learning
28. Flow characteristics analysis of ramjet engine air intake using CFD
29. Numerical analysis on optimization of heat sink
30. Thermo-hydraulic performance analysis of an artificially roughened solar air heater
31. Plastic Shredder Machine
32. Research of a computer vision and control system for manipulation
33. Design and Development of an Autonomous Robot for Cleaning Oceans
34. Design analysis and development of Chassis and Suspension system of Electric two wheeler
35. Design of planar motor system using magnetic levitation.
36. Supplier Selection Criteria in Supply Chain Management
37. Design and Fabrication of Fully Automated Solar Grass Cutter