

#### MANUFACTURING PROJECT LIST

- 1. Manufacturing of disc brake plate by using metal matrix composites.
- 2. Modeling and manufacturing of connecting rod die with EN 31 tool steel
- 3. Silicon carbide, graphite and aluminum metal matrix composites for automobile applications.
- 4. Mechanical characterization of aluminum boron carbide composites.
- 5. Modeling and fabrication of harvesting robot.
- 6. Fabrication of friction less electromagnetic braking system.
- 7. Fabrication of sensor based fire fighting robot.
- 8. Fabrication of pedal operated water purifier.
- 9. Fabrication mini belt grinding system.
- 10. Design and development of wind operated water pump.
- 11. Fabrication of box transport conveyor system for automobile industries.
- 12. Modeling and manufacturing of asymmetric spur gears.
- 13. Fabrication of mini scissor lift.
- 14. Design and Fabrication of Catalytic Convertor for Emission Reduction.
- 15. Fabrication of Automatic Pneumatic Paper Cutting Machine.
- 16. Fabrication of Automated Portable Hammering Machine.
- 17. Evaluation of mechanical properties of natural fiber composites.
- 18. Fabrication of Pick and Place Mechanism.
- 19. Experimental investigation to determine influence of process parameters on surface quality and MRR in Wire Cut EDM.
- 20. Experimental investigation to optimize process parameters in drilling operation for composite materials.
- 21. Optimization of process parameters to minimize surface roughness in turned parts by experimentation and analytical.
- 22. Optimization of MIG welding parameters for improving strength of welded joints.
- 23. Effect of welding speed and groove angle on strength of butt weld joint using TIG welding.







- 24. Optimization of machining parameters for face milling operation in a vertical CNC milling machine using genetic algorithm.
- 25. Effect of Varying Surface Grinding Parameters on the Surface Roughness of mild Steel.
- 26. Review of Analysis & Optimization of Cylindrical Grinding Process Parameters on Material Removal Rate of EN21AMSteel.
- 27. Experimental investigation on different materials with CNC machining process by using TAGUCHI method.









### DESIGN AND VALIDATION PROJECT LIST

- 1. Design and analysis of spindle in milling machine.
- 2. Design and analysis of radial arm used in drilling machine.
- 3. Design and analysis of multilayered pressure vessel.
- 4. Design and evaluation of a camshaft used in multi cylinder engine.
- 5. A Numerical and analytical investigations of Cylindrical Panels Subjected to different Loads.
- 6. Optimization of MIG welding parameters for improving strength of welded joints.
- 7. Experimental investigations and finite element analysis of Friction Stir Welding of various Aluminium Alloys.
- 8. Riveting Process Modeling and Simulating for Deformation Analysis of Aircraft's Thin-walled Sheet-metal Parts.
- 9. Numerical and fluid solid interaction (FSI) analysis of fluid film journal bearing at different eccentricity ratios.
- 10. Fracture, fatigue growth rate and vibration Analysis of Camshaft in railways.
- 11. Design of an Aircraft Wing Structure for Static Analysis and Fatigue Life Prediction.
- 12. Studying the Effect of Cooling Rate on the Linear&, Non Linear Deflection and Elastic Properties of Stainless Steel (grade 410) Beams.
- 13. Crash Analysis Of Bumper Assembly With Solver To Improvise The Design For Impact Tests.
- 14. Deflection and Stress Analysis of a Cantilever and its Validation Using ANSYS
- 15. Cantilever beams on vibration.
- 16. Design and analysis of cantilever beam at uniform disturbtion load conditions.
- 17. FE Analysis of knuckle joint pin used in tractor trailer.
- 18. Simulation of a parallel mechanical elbow with 3 DOF
- 19. Strain Investigation of Bolt Torque Effect in Mechanically Fastened Joints
- 20. Computation Method in Failure Analysis of Mechanically Fastened Joints at Layered Composites.
- 21. Design and analysis of orifice plate at different velocity ratios.
- 22. Design and analysis functionally graded disc under mechanical loads.







- 23. Design and Finite Element Analysis of Aircraft Wing Using Ribs and Spars.
- 24. Design, Load Analysis and Optimization of Compound Epicyclic Gear Trains.
- 25. Analysis of Composite Journal Bearing.
- 26. Modeling and Analysis of an Automotive Bumper Used for a Low Passenger Vehicle.
- 27. Performance Analysis of Winglets Using CFD Simulation.
- 28. Modeling and CFD analysis of an RC aircraft wing.
- 29. Design and Analysis on Scramjet Engine Inlet.
- 30. CFD Analysis of a Rocket Nozzle with Four Inlets at Mach numbers.
- 31. Comparative study of monocoque and semi-monocoque flight vehicle structures under structural and thermo-structural loads.
- 32. Analysis of Stiffeners in a Semi Monocoque System of an Air Craft.
- 33. Design and analysis of composite propeller blade for Aircraft.
- 34. Design and analysis of fin blades of cargo aero plane.
- 35. CFD Analysis of Aerodynamic Drag Reduction.
- 36. Design and analysis of a typical wing rib for passenger aircraft.
- 37. FE Analysis of Dynamic Response of Aircraft Windshield against Bird Impact.
- 38. Design and Analysis of Gas Turbine Combustion Chamber.
- 39. Design and Optimization of Aerodynamics Nozzle for maximum thrust using Multidisciplinary Design Optimization (MDO).
- 40. Modeling and Analysis of a Rocket Based Combined Cycle Rocket Nozzle.
- 41. Design and Analysis of Stator, Rotor and Blades of the Axial flow Compressor.
- 42. Design and Analysis of Air craft Engine Cooling Fan.
- 43. Design, development, simulation and realization of expansion joints in ecs engine bleed system for a typical light transport aircraft.
- 44. Design and Analysis on Scramjet Engine Inlet.















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- 1. Fabrication of multipurpose operation hacksaw cutting, drilling and grinding machining.
- 2. Fabrication of sand filter machine.
- 3. Fabrication of solar grass cutter.
- 4. Fabrication of rocker bogie suspension system.
- 5. Fabrication of hacksaw cutting machine using peddles principle.
- 6. Power generation by using railway track.
- 7. Fabrication of multipurpose agriculture equipment.
- 8. Fabrication of bicycle operated pump.
- 9. Fabrication of automatic rain operated wiper.
- 10. Fabrication of ELBOW power transmission.
- 11. Power generation for mobile charging by using flywheel.
- 12. Manufacturing process of spur gear.
- 13. Fabrication of mini vacuum cleaner.
- 14. Manufacturing of disc brake.
- 15. Power generation by using salt water.
- 16. Fabrication of Drill jig.
- 17. Fabrication of mini scissor lift.
- 18. Hydraulic power generation.
- 19. Automatic retrieve side stands system.
- 20. Power generation for mobile charging by using bleaching powder.
- 21. Fabrication of hydraulic arm.
- 22. Manufacturing of pet bottle die.
- 23. Manufacturing of two wheeler connecting rod die.
- 24. Natural Convective Heat Transfer from Interrupted Rectangular Fins.
- 25. Fabrication of mini air conditioning system.
- 26. Fabrication of shaft driven cycle.
- 27. Fabrication of automatic cutting and feed mechanism.
- 28. Design and Fabrication of pedal operated pump.







- 29. Fabrication of electricity generating foot path.
- 30. Fabrication of box transport conveyor system.





