

M-TECH PROJECTS LIST

1. Transient thermal analysis of two wheeler piston
2. Transient structural analysis of a valve and spring used in 2 wheeler vehicle
3. Design and analysis of multi-layer pressure vessel
4. Thermal and modal analysis of propeller blade modeled in Catia
5. Design and assembly of heat exchanger and thermal analysis on its tubes
6. Design of four cylinder head gasket and thermal analysis
7. Design and analysis on cold plate design
8. Design/modeling of fire tube boiler subjected to thermal analysis
9. Design/modeling of material optimization of two wheeler cylinder head for optimum temperatures.
10. Thermal analysis of a inline 4 cylinder engine
11. Thermal load effect on valve by using conventional and blended fuels
12. Design and thermal analysis of a supercritical cfb boiler
13. Design/modeling and analysis of single plate clutch
14. Design/modeling and analysis of inlet and exhaust valves of S.I engine / Ic engine.
15. Shape optimization of cylinder fins for rectangle, triangle and circular

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| 16. Design modification and analysis of two wheeler cooling fins |
| 17. Modeling and thermal analysis of oil sump in automobiles |
| 18. Modeling and thermal analysis of steam turbine |
| 19. Design and analysis of throttle body valve used in petrol engines |
| 20. Cfd performance on ejector valve |
| 21. Thermal analysis of disc brake for sports bikes |
| 22. Design and analysis of bi-metallic valve used in open and closed conditions |
| 23. Design and analysis of bi-metallic piston used in 2 wheelers |
| 24. Cfd Analysis For Transient Turbocharger Flows By Varying Flow Rate |
| 25. Experimental And Analysis To Determine Effect Of Aspect Ratio On Heat Transfer From Square Taper Fin Array In Natural Convection |
| 26. Heat transfer and fluid flow in a single phase micro channel heat sink using different materials |
| 27. Temperature rise and transformer efficiency |
| 28. Theoretical analysis of heat transfer rate in vapor compression Refrigeration system in cold storage by using r-442a |
| 29. Thermal analysis on high temp coatings for exhaust |

30. Thermal and Cfd analysis for finding heat transfer through an annular bend tube for various Nano fluids

31. Thermal and Cfd analysis of shell and tube heat exchanger with different fractions of Nano fluids

32. Design and analysis of a roll cage for heavy vehicles

33. Design and analysis of butterfly valve used in heavy industries

34. Design and thermal analysis of cylinder block

35. Design and analysis of a gas turbine blade

36. Design and structural analysis of cylinder block of 4 cylinders V-8 engine

37. Structural analysis of disc brake for 2 wheeler

38. Design and testing of a composite poppet valve

39. Modeling and analysis of a impeller blade of a steam exhaust system

40. Thermal load effect on valve by using conventional and blended fuels

41. Thermal finite element analysis of single pass girth welded low carbon steel pipe-flange joints

42. Design and thermal analysis of a supercritical cfb boiler

43. Effect of thermal loads on cylinder head

44. Coupled analysis of chimney used in cement industry

45. Design and analysis of spur gear used for strength improvement.

46. Analysis of loader arm of pneumatic high speed loader

47. Modal and static analysis and design of truck chassis by different materials

48. Contact stress analysis of modified helical gear

49. Design/modeling of helicopter rotary blade and its analysis.

50. Design/modeling of S.I engine connecting rod and crank shaft analysis with different materials subjected to static analysis

51. Design/modeling of spur gear with involute profile and analysis on gear tooth

52. Design/modeling of evaluation and optimization diesel engine nozzle

53. Design/modeling of gas turbine rotor blade subjected to modal analysis

54. Design/modeling and analysis of a bevel gear used in compressor

55. Design/modeling and optimization of flywheel

56. Design/modeling of rocker arm of S.I engine and its analysis

57. Design/modeling and reinforcement of a heavy vehicle leaf spring for the material glass carbon composite

58. Design/modeling and analysis of an multi cylinder engine block

59. Modeling and buckling analysis of diesel engine piston and connecting rod for different load conditions

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60. Design/modeling of car bumper for variable speed by using materials and its analysis.

61. Design/modeling of a front axle and its analysis