

**B.Tech Mechanical Major Project List (2019-20)**

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| **S.No** | **THERMAL** |
| 1. | Thermal Analysis Of A Disk Brake |
| 2. | Thermal Simulation Of Hybrid Drive System |
| 3. | Thermal Analysis Of Cylinder Head Gasket |
| 4. | Thermal Analysis Of Coolant Plumbing Pipe |
| 5. | Modeling And Simulation Of Temperature Variation Of Bearings In A Hydropower Generation Unit |
| 6. | Design And Thermal Analysis Of Heat Exchanger |
| 7. | Heat Transfer In The Cylinder Head Of A Two-Stroke Engine |
| 8. | Simulation And Thermal Stresses In A Disc Brake |
| 9. | Thermal Analysis Of A Drum Brake |
| 10. | Thermal Analysis Of A Gas Turbine Rotary Blade |
| 11. | Thermal Analysis Of A Connecting Rod |
| 12. | Thermal Analysis Of A Piston |
| 13. | Thermal Analysis Of An Oil Sump |
|  | **AUTOMOBILE** |
| 14. | Design And Structural Analysis Of A Automobile Chassis |
| 15. | Design And Modal Analysis Of A Automobile Chassis |
| 16. | Design And Dynamic Analysis Of A Automobile Bumper |
| 17. | Design And Analysis Of A Fuel Injector Nozzle |
| 18. | Design And Analysis Of A Engine Block |
| 19. | Design And Analysis Of A Exhaust Manifold |
| 20. | Design And Analysis Of A Intake Manifold |
| 21. | Design And Modal Analysis Of A Automobile Bumper |
| 22. | Design And Static Analysis Of A Automobile Bumper |
| 23. | Design Of A Single Plate Clutch |
| 24. | Design And Analysis Of A Drum Brake |
| 25. | Design Of A Centrifugal Plate Clutch |
| 26. | Design And Analysis Of A Disc Brake |
| 27. | Design And Analysis Of A Wagon Wheel And Track |
| 28. | Design Of A Carburetor |
| 29. | Design And Analysis Of A Alloy Wheels |
| 30. | Design And Analysis Of A Active Suspension System |
| 31. | Vehicle Dynamic Analysis Of Wheel Loaders |
| 32. | Design And Static Analysis Of A Leaf Spring |
| 33. | Design And Dynamic Analysis Of A Leaf Spring |
| 34. | Dynamic Analysis On Automobile Exhaust System |
| 35. | Finite Element Analysis Of The Classic Bicycle Wheel |
| 36. | Analysis And Design Modification Of Motor Cycle Wheel Spokes |
| 37. | Design Modification And Analysis Of Two Wheeler Cooling Pins |
| 38. | Fluid Flow And Temperature Distribution In Radiators Used In Automobiles |
| 39. | Design And Analysis Of Flange Coupling In Power Transmission |
| 40. | [Vibration Analysis Of A Flatbed Trailer](http://www.mtechprojects.com/mechanical/1705-vibration-analysis-of-a-flatbed.html) |
| 41. | [Structural Analysis Of A Flatbed Trailer](http://www.mtechprojects.com/mechanical/1704-structural-analysis-of-a-flatbed.html) |
| 42. | Design And Systematic Analysis Of Telescopic Shock Absorber |
| 43. | Optimum Design And Analysis Of Composite Drive Shaft For An Automobile |
| 44. | To Perform Structural Static Analysis On A Flange |
| 45. | Design And Dynamic Analysis Of A Chassis |
| 46. | Modeling And Analysis Of Master Cylinder In Hydraulic Braking System |
| 47. | Design And Analysis Of Multi Plate Clutch |
| 48. | Design Thermal Analysis Of Engine Cylinder Fins |
| 49. | Design And Analysis Of Friction Clutch Plate By Changing Circle Diameter |
|  | **ENGINES** |
| 50. | Design Of A Horizontal Beam Engine |
| 51. | Design Of A Sterling Engine |
| 52. | Design Of A Vertical Steam Engine |
| 53. | Design Of A Kimble Engine |
| 54. | Design And Analysis Of A Engine Block |
| 55. | Design And Analysis Of Rocker Arm |
| 56. | Structural Static Analysis Of Cylinder Head |
| 57. | Modal Analysis Of Suction Valve |
| 58. | To Perform Structural Static Analysis On A Crank Shaft |
| 59. | Design Of A Jet Engine |
|  | **GENERAL PROJECTS** |
| 60. | Design And Analysis Of A Vertical Axis Wind Turbine |
| 61. | Modeling And Simulation Of Marine Propeller |
| 62. | Cfd Analysis Of Double Pipe Parallel Flow Heat Exchanger |
| 63. | Design And Analysis On Drill Bit |
| 64. | Design And Analysis Of A Crane Hook |
| 65. | Design And Analysis Of A Water Jet Nozzle |
| 66. | Fatigue Resistance Analysis Of A Fuel Injection Component |
| 67. | Design And Analysis Of Machine Tool Elements Using Ansys |
| 68. | Design And Analysis Of Miniature Positive Displacement Pump |
| 69. | Structural Analysis Of A Composite Bearing Assembly |
| 70. | Modal Analysis Of Intake Manifold Of A Carburetor |
| 71. | Structural Static Analysis On Crankshaft Bearing Assembly |
| 72. | Modeling And Analysis Of A Cnc Milling Machine Bed With Composite Material |
| 73. | Cfd Analysis Of A Solar Absorber Plate Using Ansys |
| 74. | Design And Analysis Of Helical Spring In Two Wheeler Suspension System |
| 75. | Cfd Analysis On Rocket Nozzle |
| 76. | Cfd Analysis Of A Engine Valve |
| 77. | Design Of An End Effectors For Drilling In Automated Processes |
| 78. | Buckling Behavior Of Plate And Tubular Structures |
| 79. | [Cfd Analyses Of The Gas Flow Inside The Vessel Of A Hot Iso Static Press](http://projectabstracts.com/5486/cfd-analyses-of-the-gas-flow-inside-the-vessel-of-a-hot-isostatic-press.html)  |
| 80. | Design And Analysis Of Turbine Cpc0040 |
| 81. | Stress Analysis Of Helical Straight Bevel Gear |
| 82. | Coupled Structural And Thermal Analysis Of A Simple Steel Link |
| 83. | Design And Analysis Of Machine Tool Elements Using Solid Works/Ansys |
| 84. | Vibration Analysis Of A Rotary Compressor |
| 85. | Design And Analysis Of Miniature Positive Displacement Pump |
| 86. | Random Vibration Analysis Of Compressor Housing |
| 87. | Structural Analysis Of A Refrigerator Compressor Crank Shaft |
| 88. | Modal Analysis Of Refrigerator Compressor Cylinder Head |
| 89. | Modal Analysis Of Compressor Valve Plates And Compares The Results Between The Two Valve Plates. |
| 90. | Simulation Of Centrifugal Pump Perforce Using Cfd Tool And Optimization Of The Pump For The Improved Performance |
| 91. | Modal Analysis Of Muffler Guard |
| 92. | Wind Flow Analysis On A Complex Terrain |
| 93. | Design Of A Planetary Cycle Drive Speed Reducer |
| 94. | Design And Analysis Of A Pivoting Tool Holder |
| 95. | Air Foil Design And Analysis |
| 96. | Design Analysis Of Train Brake |
| 97. | Static And Dynamic Analysis Of Helicopter Rotor Blade |
| 98. | Design And Analysis Of Fly Wheel |
| 99. | Design And Analysis Of Mini Evaporated Condenser Tubes |
| 100. | Natural Convective Heat Transfer From Narrow Plates |
| 101. | Design And Analysis Of Ceiling Fan Blade Performance Using Flow Simulation |
| 102. | Static Structural Analysis Of 3 Axis Cnc Machine Table Using Finite Element Analysis |
| 103. | Structural And Vibration Analysis Of Delaminated Composite Beams |
| 104. | Design And Analysis Of Rail Wheel |
| 105. | Design And Analysis Of Domestic Windmill Blades |
| 106. | Design And Impact Analysis On A Frameless Chassis Construction Of Volvo Bus For Different Speeds |
| 107. | Design And Analysis Of Rear Wheel Hub |
| 108. | Modeling And Analysis Of Single Point Cutting Tool Using Fem Method |
| 109. | Design And Analysis Of Shock Observers In Suspension System  |
| 110. | Design And Analysis Of Automotive Shackle |
| 111. | Design And Analysis Of Rocket Nozzle |
| 112. | Solar Panel Supporting Structure In Wind Effect |
| 113. | Orifice Plate And Flow Nozzle |
| 114. | Design And Analysis Of Pressure Disc Type Filter |
| 115. | The Finite Element Analysis & Improvement On A Single CylinderHead Of Spark Ignition Engine |
| 116. | Structural And Thermal Analysis Of Combustion Outer Case |
| 117. | Design And Analysis Of A Free Standing I Beam Jib Crane |
| 118. | Design And Analysis Of Honey Comb Structures With Different Cases |
| 119. | Thermal Analysis Of Various Duct Cross Sections Using Altair Hyper works Software |
| 120. | Coupled Field Analysis Of A Chimney Used In Cement Industry |
| 121. | Fatigue Analysis And Design Optimization Of Excavator Bucket |

HeadOffice: #202 2nd Floor, Pancom Business Center Opp, Chennai Shopping Mall, Ameerpet, Hyderabad 040-44433434 Mail-id: ramu.krest@gmail.com,www.kresttechnology.com

Branches: Warangal (9000739460), Vijayawada (9000404182)