**B.TECH MECHANICAL MAJOR PROJECT TITLES(2019-20)**

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| TV0301 | Modification modeling and test analysis of environmental test chamber |
| TV0302 | Modeling and transient analysis of honeycomb structure |
| TV0303 | Structural design strategy of keystone butterfly valve using topology optimization techniques |
| TV0304 | Designing the aircraft wings and analysis of it working impact loads |
| TV0305 | Modeling and analysis of wankel engine rotor |
| TV0306 | Modeling and natural frequency analysis of industrial rotor |
| TV0307 | Modeling and analysis of sports car sudden accident proof of impact attenuator |
| TV0308 | Design/ modeling and simulation of train braking system |
| TV0309 | Modeling and thermal analysis of heat shielding system in vehicles with different materials |
| TV0310 | Modeling and structural thermal analysis of a low-pressure steam turbine |
| TV0311 | Coupled field analysis of a friction plate clutch |
| TV0312 | Design and analysis of multi-layer pressure vessel |
| TV0313 | Design and study state thermal analysis of super heater coils |
| TV0314 | Design and finite element analysis of traction gear using deferent materials |
| TV0315 | Design and structural analysis of suspension system for a formula car |
| TV0316 | Design and performance analysis of opposed piston engine using computational fluid dynamics |
| TV0317 | Design and structural and thermal analysis of gas turbine blade |
| TV0318 | Design and structural analysis of a v8 engine by using different materials. |
| TV0319 | Modeling and structural and thermal analysis of pressure chamber |
| TV0320 | Modeling and analysis of transverse leaf spring under the static load condition by using fea |
| TV0321 | Testing of a subscale hts coil for wind turbine generator |
| TV0322 | Design and analysis of shape optimization of connecting rod considering fatigue life |
| TV0323 | Design and analysis of a 4 stroke aero space engine piston |
| TV0324 | Dynamic analysis of friction material of a cone clutch plate and applications |
| TV0325 | Design and performance analysis of hobbing milling cutter |
| TV0326 | Designing the mini rice harvesting machine and performance analysis of an a harvesting machine cutting blades |
| TV0327 | Design and analysis of multi-layer pressure vessel |
| TV0328 | Modeling and analysis of spur gears |
| TV0329 | Coupled field analysis of a chimney used in cement industry |
| TV0330 | Heat transfer and fluid flow in a single phase micro channel  Heat sink using different materials |
| TV0331 | Composite poppet valves design and testing |
| TV0332 | Transient thermal analysis of a two wheeler cylinder head |
| TV0333 | Fatigue analysis of a mag wheel for impact loading |
| TV0334 | Modeling and analysis of wheel rim |
| TV0335 | Design and parametric optimization of car flywheel for variable speeds |
| TV0336 | Design & thermal analysis for evaporator to improve efficiency |
| TV0337 | Design and analysis of turbine blade |
| TV0338 | Design and analysis of a bevel gear used in rollers |
| TV0339 | Modelling and fatigue analysis of a milling cutter |
| TV0340 | Design/modelling of a radiator fan of car and its analysis |
| TV0341 | Design and thermal analysis of a supercritical cfb boiler |
| TV0342 | Design and structural analysis of a automobile vehicle chassis |
| TV0343 | Shape optimization of cylinder fins for rectangle, triangle and circular |
| TV0344 | Design modeling and finite element analysis of 3 hp 4\*3 mono block centrifugal pump impeller |
| TV0345 | Modeling of finite element and thermal expansion analysis in composites circular bars |
| TV0346 | Modeling and thermal analysis on heat exchanger tubes with varying various materials |
| TV0347 | Modeling and structural thermal analysis of solar panel system |
| TV0348 | Design and analysis of water pump integral shaft bearing with hertzian contact stress theory |
| TV0349 | Design of a cantilever - type rotating bending fatigue testing machine |
| TV0350 | Design optimization of cam & follower mechanism of an internal combustion engine for improving the engine efficiency |
| TV0351 | Structure parameters optimization analysis of hydraulic hammer system |
| TV0352 | Friction material temperature distribution and thermal and mechanical contact stress analysis |
| TV0353 | Analysis of stresses and deflection of sun gear by theoretical and ansys method |
| TV0354 | Thermal and modal analysis of propeller blade modelled in catia |
| TV0355 | Design of four cylinder head gasket and thermal analysis |
| TV0356 | Design/modelling of helicopter rotary blade and its analysis |
| TV0357 | Design/modelling of radial engine and its analysis |
| TV0358 | Design/modelling of an wind mill subjected to kinematic analasys |
| TV0359 | Weight reduction of steering knuckle by optimization method |
| TV0360 | Performance analysis of various disc brake profiles |

Note:

• Students with new taughts are welcome here.

• Still many projects are getting updated based on study and designing.

• Main theme of the project is to learn design software and how analysis will be done on product.

• The given title may be small but the eloboration and explanation of the project will be big

Highlights:

* Excellent faculty with exposure to industrial standards.
* Teaching with latest software’s.
* Teaching methodology which gives 100% productivity to others.
* Course covering core subject topics in engineering.
* Frequently asked questions-taught especially for all vital courses.