



## MECHANICAL M.TECH PROJECT LIST

S/NO	TITLE OF THE PROJECT	DESIGN	ANALYSIS
1	CFD Analysis Of A Parallel Flow Heat Exchanger	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
2	Thermal Analysis Of A In Line IC Engine	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
3	Design And Analysis Of A Gas Turbine Rotar Blade	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
4	Design And Analysis Of A Drum Brake	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
5	Design And Analysis Of A Marine Propeller	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
6	Design And Analysis Of A Two Wheeler Suspension System	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
7	Design And Analysis Of A Disc Brake	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
8	Design And Simulation Of A Composite Centrifugal Blower	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
9	Design And Simulation Of A	SOLID	SOLID

**Head Office:** G3, Ratna Complex, Image Hospital Lane, Beside DHFL, Ameerpet  
Hyderabad - 500073, Contact: 7036987111/222/333/444

**Branch Office:** 2nd Floor, Datta Lord House, Behind PVP Cinemas, M.G.Road, Labbipet  
Vijayawada - 520002, Contact: 7036987666



	Centrifugal Pump	WORKS/CATIA/PTC CREO/UNX	WORKS/ANSYS/CATIA
10	Design And Simulation Of A DTH Drill Bit	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
11	Design And Analysis Of An Rc Engine	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
12	Design And Analysis Of A Leaf Spring	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
13	Modeling And Analysis Of A Differential Gear Mechanism	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
14	Design And Analysis Of An Alloy Wheel	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
15	Product Development By Reverse Engineering By Using Rpdt	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
16	Design And Weight Optimization Of A Oil Pan	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
17	Design And Analysis Of A Connecting Rod With Different Materials	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA

**Head Office:** G3, Ratna Complex, Image Hospital Lane, Beside DHFL, Ameerpet  
Hyderabad - 500073, Contact: 7036987111/222/333/444

**Branch Office:** 2nd Floor, Datta Lord House, Behind PVP Cinemas, M.G.Road, Labbipet  
Vijayawada - 520002, Contact: 7036987666



18	Design And CFD Analysis Of Pulse Jet Engine	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
19	Design And CFD Analysis Of A Convergent And Divergent Nozzle	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
20	Design And Analysis Of Washing Machine Drum	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
21	Design And Analysis Of Crank Shaft	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
22	Design And Analysis Of The Piston Using Composite Materials Like Al-Mg	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
23	Design And Dynamic Analysis Of A Suspension	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
24	Design And Dynamic Analysis Of A Leaf Spring	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
25	Design And Analysis Of A Coil Spring	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
26	Design And Analysis Of A Ventilated And Slotted Disc Brake	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA

**Head Office:** G3, Ratna Complex, Image Hospital Lane, Beside DHFL, Ameerpet  
Hyderabad - 500073, Contact: 7036987111/222/333/444

**Branch Office:** 2nd Floor, Datta Lord House, Behind PVP Cinemas, M.G.Road, Labbipet  
Vijayawada - 520002, Contact: 7036987666



27	Design And Analysis Of A Composite Helical Gear	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
28	Design And Analysis Of A Normal Fins	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
29	Design And Analysis Of A Flange Coupling In Power Transmission	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
30	Design And Analysis Of A Automobile Frame	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
31	Thermal Analysis Of An Oil Sump	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
32	Thermal Analysis Of A Piston	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
33	Structural analysis of a flat bed trailer	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
34	Vibration analysis of a rotary compressor	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
35	Modal analysis of car chassis using ansys	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA

**Head Office:** G3, Ratna Complex, Image Hospital Lane, Beside DHFL, Ameerpet  
Hyderabad - 500073, Contact: 7036987111/222/333/444

**Branch Office:** 2nd Floor, Datta Lord House, Behind PVP Cinemas, M.G.Road, Labbipet  
Vijayawada - 520002, Contact: 7036987666



36	Optimum design and analysis of composite drive shaft	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
37	Static and dynamic analysis of a refrigerator compressor crank shaft	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
38	Static and thermal analysis of a cylinder head	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
39	Modal analysis of a thermal power plant cooling tower	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
40	Modal and static analysis of a muffler guard	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
41	Design and analysis of a swinging jaw plates of a single toggle jaw crusher	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
42	Harmonic analysis of a rotary compressor mounting plate using FEA	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
43	CFD analysis on jet nozzle	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
44	CFD analysis on elbow pipe joint	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA

**Head Office:** G3, Ratna Complex, Image Hospital Lane, Beside DHFL, Ameerpet  
Hyderabad - 500073, Contact: 7036987111/222/333/444

**Branch Office:** 2nd Floor, Datta Lord House, Behind PVP Cinemas, M.G.Road, Labbipet  
Vijayawada - 520002, Contact: 7036987666



45	Design And Analysis Of Shock Absorber	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
46	Modeling And Analysis Of An Automobile Radiator	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
47	Modeling And Analysis Of Camshaft Using Composite Materials	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
48	Modeling And Analysis Of Domestic Wind Mill Turbine Blade	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
49	Modeling And Analysis Of Fins Of Two Stage Reciprocating Compressor	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
50	Modeling And Analysis Of Jet Wind Turbine Blade	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
51	Modeling And Analysis Of Pelton Wheel Bucket	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
52	Modeling And Analysis Of Pressure Vessel By Using Frp Composite Material	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
53	Modeling And Analysis Of Scissor Jack	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA

**Head Office:** G3, Ratna Complex, Image Hospital Lane, Beside DHFL, Ameerpet  
Hyderabad - 500073, Contact: 7036987111/222/333/444

**Branch Office:** 2nd Floor, Datta Lord House, Behind PVP Cinemas, M.G.Road, Labbipet  
Vijayawada - 520002, Contact: 7036987666



54	Modeling And Cfd Analysis Of Conical Exhaust Diffuser	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
55	Modeling And Cfd Analysis Of Economiser	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
56	Modeling And Cfd Analysis On Boiler Feed Pump	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
57	Results of Thermal Analysis on Fiber Reinforced Plastic Matrix Composite Materials	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/ANSYS/CATIA
58	Design and analysis of bearings	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/CATIA/ANSYS
59	Car crash analysis	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/CATIA/ANSYS
60	CFD analysis on solar heater	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/CATIA/ANSYS
61	CFD analysis on radiator by nano fluid	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/CATIA/ANSYS
62	CFD analysis on centrifugal pump by non Newtonian fluid	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/CATIA/ANSYS
63	CFD analysis on car body	SOLID WORKS/CATIA/PTC CREO/UNX	SOLID WORKS/CATIA/ANSYS

**Head Office:** G3, Ratna Complex, Image Hospital Lane, Beside DHFL, Ameerpet  
Hyderabad - 500073, Contact: 7036987111/222/333/444

**Branch Office:** 2nd Floor, Datta Lord House, Behind PVP Cinemas, M.G.Road, Labbipet  
Vijayawada - 520002, Contact: 7036987666