CAD/CAM / CAE - Structural Projects List

Sno	ProjCode	Project Title
1	CS001	Analysis of Composite material For Al -Magnesium Analysis
2	CS002	FEM analysis of dynamic flexural behavior of composite sandwich beams with foam core.
3	CS003	Design and Analysis of Connecting Rod Using Al-Sic.
4	CS004	Experiment In Laser Cutting Machining In Aluminums Silicon Composite Material.
5	CS005	Design Analysis of a Circular and Square Shaped Piston Head.
6	CS006	Analysis of connecting rod using composite material.
7	CS007	Design and analysis of cam shaft.
8	CS008	Static and vibration analysis of shock absorber.
9	CS009	Experimental Investigation and Analysis of Piston by Using Hybrid Metal Matrix.
10	CS010	Design and Analysis of Sports Utility Vehicle?s Chassis and Its Passenger Cabin Cavity.
11	CS011	Finite element analysis of optimized compound cylinder.
12	CS012	Finite Element Analysis of Knuckle Joint Pin.
13	CS013	Vibration analysis of engine mounting bracket.
14	CS014	Single Acting Piston Pump Using Oscillating Motion.
15	CS015	Modeling and Analysis of Water Tank Stand.
16	CS016	Finite Element Analysis of Nozzle for Vertical Pressure Vessel.
17	CS017	Design and Analysis of a Pushrod Suspension System for a Formula Racing Car.
18	CS018	Design and Optimization of Scissor Jack.
19	CS019	Design and Analysis of Side Plate of Hydraulic Press Brake Using Ansys.
20	CS020	Modeling and Stress Analysis of Composite Material for Spur Gear under Static Loading Condition.
21	CS021	Analysis of manual bending condenser tube.
22	CS022	Design and Analysis of connecting rod using different materials.
23	CS023	Static and dynamic analysis of spur gear using different non-metallic materials.
24	CS024	Analysis of piston using AL-SIC-TiB2 Metal matrix composite.
25	CS025	Analysis of Graphite Rein Forced Aluminum Piston.
26	CS026	Analysis of Spur Gear -Al-Si-Sic-Mg.
27	CS027	Experiment In Laser Cutting Machining In Aluminum Silicon Composite Material.
28	CS028	Analysis of Electro Mechanical Ladder.
29	CS029	Structural Analysis of Leaf Spring Using Composite Material.
30	CS030	Analysis of crane hook with different cross section.
31	CS031	Structural Analysis of Automotive Chassis Frame and Design Modification for Weight Reduction.
32	CS032	Structural Analysis of Steering Yoke ofan Automobile.
33	CS033	Structural Analysis of Car alloy wheel using Aluminum and magnesium Alloys.
34	CS034	Vibration and Crash Analysis of Car Body Using ANSYS.
35	CS035	Design and Structural Analysis of Heavy Duty Vehicle Front Axle.
36	CS036	Static and Dynamic Analysis of Composite Rotor Blade.
37	CS037	Thermal & Static Analysis onIc Engine Piston Using FEA.
38	CS038	Design and finite element analysis of scissor lift using ANSYS
39	CS039	Material optimization analysis of leaf spring using ANSYS.

40	CS040	Increasing the operating life of two wheeler suspension using ANSYS.
41	CS041	Finite Element Analysis of connecting rod using material and structural parametric condition.
42	CS042	Structural and Thermal analysis of Disk Brake rotor disk.
43	CS043	Heat Insulation Analysis of an Aluminum Honeycomb Sandwich Structure.
44	CS044	Finite Element Analysis of spur gear by varying material.
45	CS045	Structural and Material optimization of household chairs using ANSYS.
46	CS046	Design modification and justification of Propeller shaft using ANSYS.
47	CS047	Design and material optimization of leaf spring using FEA.
48	CS048	Material and shape optimization of crane hook using FEA.
49	CS049	Force Analysis of Metal Sheet in Bending Operation on Sheet Bending Machine.
50	CS050	Analysis of Roll Bending Of Half Ring of Gas Turbine.
51	CS051	Weight Reduction and Analysis of Trolley Axle Using Ansys
52	CS052	Design & Analysis of Connecting Rod using Aluminum silicon carbide
53	CS053	Design, Animation & Analysis of Agricultural Chipper
54	CS054	Design, Animation & Analysis of Hybrid Air Engine
55	CS055	Design & Analysis of Support Platform for small form factor PC in ruggedness testing environment
56	CS056	Analysis of Noise Reduction in Rotor Blade by Using Composite Material
57	CS057	Modeling and Analysis of Screw Engine
58	CS058	Stress Analysis of Washing Machine Drum
59	CS059	3d thermal analysis of liquid propellant rocket with bell nozzle
60	CS060	Modeling & Structural Analysis of Piston by using Mg-Sic
61	CS061	Modeling, Analysis of Tri Axial Tipper (different angle)
62	CS062	Design & Analysis of Poppet valve using composite
63	CS063	Failure Analysis and optimization of Planner machine horizontal Mechanism
64	CS064	Design and Analysis of Industrial Pneumatic Trolley
65	CS065	Design and Analysis of Aluminum & Copper Connecting rod
66	CS066	Modeling & Analysis of Suspension Steering System
67	CS067	Design and Analysis of Piston by Composite Materials
68	CS068	Design, Animation & Analysis of Shredding, Chipping and Murching
69	CS069	Tribological analysis on Disc Brake Pad
70	CS070	Dynamic balancing of rotor
71	CS071	Design & Analysis of Piston by using Composite Materials Aluminum & magnesium
72	CS072	Modeling & Analysis of Motorized Screw Jack
73	CS073	Wear rate analysis of Nano coated cutting tools
74	CS074	Design & Analysis of Composite Leaf Spring
75	CS075	Design & Analysis of Vacuum Assisted Wall Climber
76	CS076	Design & Analysis of Splines Elimination of Starter Motor Shaft
77	CS077	Multipurpose Agricultural Machinery Dynamic Analysis for Shaft
78	CS078	Modeling & Analysis of Leaf spring under dynamic load condition for Tata sumo
79	CS079	Design & Analysis of Supercharging an Engine using Vehicle Suspension
80	CS080	Analysis of failure mechanism of 90? pipe elbow with in-plane and out-of plane loading
81	CS081	Analysis of Cam shaft using composite material
82	CS082	Design and Analysis of Composite Helical Gear
83	CS083	Productivity Improvement by automatic lifting

84	CS084	Modeling and structural analysis on flight wing by using ANSYS
85	CS085	Design and analysis of a hydraulic die ejector for a powder metallurgy component
86	CS086	Structural analysis of heavy vehicle chassis using honey comb structure
87	CS087	Study of wear behavior of aluminum based composite fabricated by stir casting technique
88	CS088	Design and stress analysis of four-post rollover protective structure of agricultural-wheeled tractor
89	CS089	Design and analysis of scissor jack
90	CS090	3D modeling and analysis of micro gas turbine compressor blade
91	CS091	Design, Animation & Analysis of Suspension Steering System
92	CS092	Design & Analysis of Piston by using Composite Materials Aluminum & magnesium
93	CS093	Design & Analysis of Stirling Engine
94	CS094	Design and Analysis of Electromagnetic Engine
95	CS095	Design and Analysis of the Windmill by the Composite Material
96	CS096	Design & Analysis of Hybrid Magnetic Bearing
97	CS097	Design & Analysis of Vacuum Assisted Wall Climber
98	CS098	Redesign of bead extruder head assembly (Analysis)
99	CS099	Design & Analysis of Screw Engine
100	CS100	Design & analysis of composite gear wheel
101	CS101	Analysis of Impeller using Aluminum Composite
102	CS102	Design & Analysis of Auto Tilting Mechanism in CAR
103	CS103	Design, modeling and analysis of a 3 stage Epicyclic planetary reduction gear unit of a flight vehicle
104	CS104	Finite element analysis of normal and vented disc brake rotor
105	CS105	Design and analysis of rocker arm using composite material
106	CS106	Design and analysis of composite over bridge coupling
107	CS107	Modeling and Analysis of drum brake
108	CS108	Analysis of adhesively bonded single lap riveted joint using ANSYS
109	CS109	Finite element analysis and natural frequency optimization of engine bracket
110	CS110	Analysis of helical coil compression spring for three wheeler automotive front suspension
111	CS111	Fatigue analysis of aluminum alloy wheel under radial load
112	CS112	Design and Analysis of Dumped Body
113	CS113	Design and analysis of connecting rod using Aluminum alloy 7068 t6, t6511
114	CS114	Finite element analysis and optimization of piston using CAE tools
115	CS115	Design and analysis of three axis hydraulic modern trailer
116	CS116	Design and analysis of helical spring with shock absorber
117	CS117	Modeling and analysis of automobile chassis brackets
118	CS118	Design and analysis of disappearing car door
119	CS119	Design and analysis of wind car
120	CS120	Modeling and analysis of bicycle frame
121	CS121	Studies on Friction Stir Welding AA2024 & AA6061
122	CS122	Stress analysis of mechanisms for trolley-cum-wheelchair
123	CS123	Stress analysis of seat backrest of car
124	CS124	Modeling and squeal analysis of brake disc rotor using ANSYS
125	CS125	Design and analysis of composite brake pedal: an ergonomic approach
126	CS126	Thermal Analysis on Composite Materials
127	CS127	Modeling & Analysis Solar Assisted Air Dryer

128	CS128	Analysis of Electricity production mechanical system
129	CS129	Structural Analysis of Rivet Joint
130	CS130	Design & Analysis of Special Purpose Lifting Equipment
131	CS131	Finite Element Analysis of Bus Body Structure
132	CS132	Static and Vibration Analyzing Shock Absorber Power Generation Using Piezo Electric
133	CS133	Design & analysis of mechanical locking system for fuel flap
134	CS134	Design & Analysis of Coil Spring with different materials
135	CS135	Analysis of FRP composite cylinders
136	CS136	Modeling and analysis of a motorcycle wheel rim
137	CS137	Design and Analysis of Jet Wind Turbine Blades
138	CS138	Comparative analysis of tractors trolley axle by using FEA(by considering change in materials existing shape and size)
139	CS139	Design and analysis of electromagnetic suspension system
140	CS140	Design and analysis of crane hook assembly
141	CS141	Vibration analysis of leaf spring
142	CS142	Design and analysis of composite helical gear
143	CS143	Analysis of windmill blade by using composite material
144	CS144	Analysis of triangular air compressor with common combustion chamber
145	CS145	Transient analysis of disk brake by using ANSYS software
146	CS146	Impact Analysis on Front Sub Frame System Using Composite Material
147	CS147	Design and analysis of automobile frame
148	CS148	Finite element analysis of the classic bicycle wheel
149	CS149	Design & Analysis of Quick Lifting Jack with Gear Arrangement
150	CS150	Study and analysis of aircraft fuselage body structure by using composite material
151	CS151	Design & Analysis of Reverse Differential Locking System
152	CS152	Modeling and simulation of single arm robot
153	CS153	Design & analysis of domestic windmill blades
154	CS154	Modeling & structural analysis of rear axle casing of tractor
155	CS155	Analysis of Eddy Current Braking
156	CS156	Performance of FEA Analysis and Comparison between Bonded, Riveted &Hybrid Joint
157	CS157	Vertical material handling system
158	CS158	Selection and analysis of the landing gear for unmanned aerial vehicle for SAE aero design series
159	CS159	Structural analysis of an exhaust manifold of a multi cylinder engine
160	CS160	Analysis of a thin and thick walled pressure vessel for different materials
161	CS161	Design and analysis of I.C engine piston and piston-ring using CATIA and ANSYS software