

Aditya College of Engineering & Technology

Aditya Nagar, ADB Road, Surampalem - 533437

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2020-21 Projects

Quality of completed projects/working prototypes

Batch No	TITLE	Model/Prototype
1	Design and Analysis of Valve Gear Mechanism using Finite Element Analysis	TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER
2	Modelling and Implementation of Dual Axis Solar Tracking System	POC POCK
3	Experimental investigation on CNG as a Fuel in Two-Wheeler	
4	Design and Fabrication of Serial Robotic Arm	
5	Fabrication of Chilled Water Dispenser System	
6	Performance Analysis of Raiserless Solar Water with Dented Absorber Plate	

7	High Speed Four way Hacksaw machine using Scotch Yoke Mechanism	
8	Design and FEA Analysis of Composite Leaf Spring	ANEXE
9	Design and 3D Prototyping of Vertical Turbine - IoT Based Testing	
10	Design and Fabrication of Abrasive Jet Machine	
11	Design and Flow Analysis of Intake Manifold For Light Commercial Vehicles by using Computational Fluid Dynamics	
12	Design and Simulation of All Terrain Vehicle	
13	Characterization of Glass Fiber Reinforced Polymer Composite Prepared by Hand Layup Method	
14	Design and Fabrication of Contactless Braking System	
15	Design and Analysis of Aqua Feed Sprayer for Easy Farming.	Feed Flow Channel Support To held Channel
16	Corrosion Behavior of Ni Coated Aluminium Reinforced with Coconut Shell Ash Composites	OF CORE CONTROL CONTRO
17	Thermal Analysis and Optimization of I.C Engine Piston using Finite Element Method	
18	Fabrication and Testing of Neem Shell Resin, Bamboo and Pineapple Fiber Reinforced Composites	

20	Design of Portable Electric Power Tiller Machine	
21	Smart conveyor system using Swarm robots	
22	Design and Prototyping of Smart Hoisted Delta Pick and Place Robot	
23	Crack Initiation & Propagation Analysis on Heavy Vehicle Propeller Shaft by using Wavelet Transform	411
24	Performance Analysis of VCR Engine for Various Piston Designs and Configurations	** See Manufaction of the Conference of the Conf
25	An Investigation of Friction Stir Welding Process Parameters for Joining Al-Alloys	
26	Performance and Emission Characteristics of S.I Engine by using Oxygenated Additives by Varying Load at Different Speeds	
27	Design and Analysis on Suspension System of a Hybrid Two-Wheeler Bike	
28	Thermal Analysis of the Gas Turbine Rotor Blade	
29	Design and Analysis of Convertible Wheel Chair to Sleeping Bed	ESSImina.
30	CFD Analysis of Solar Flat Plate Collector	
31	Fabrication of Electromagnetic Braking System	Date of the second date of the s

		Enaband process
32	Design and Structural Analysis of Hybrid Two-Wheeler Bike	ASS
33	Design and Analysis of Windmill Operated Water Pump with Two Different AirFoils	*
34	Design and Prototype of Smart Hoisted Delta Pick and Place Robot	
35	Design and Prototype of Smart Material Handling System	
36	Experimental Studies on the Effect of Oxygenated Additives on Spark Ignition Engine	00 1/0g - GTIAN - GTIAN - TTIAN - TTIA
37	Optimization of Design and Static Thermal Analysis of Disc Rotor using Finite Element Method	MS355
38	Design and Fabrication of Phase Change Material Air Cooler	
39	Improving Productivity of Double Slope Solar Still using NANO Coated Basin Materials	
40	Monitoring and Detection of Vehicle Emissions	MO-1155
41	Design and Simulation of Vortex tube with Different Conical Control Valves	

42	Fabrication of Frictionless Electromagnetic Braking System	
43	Design and Analysis of OMNI Ball Spherical Wheel	
44	Design and 3D Prototyping of Horizontal Turbine - IoT Based Testing	
45	Study on use of Radiant Energy Welding Processes in Defence and Space Applications	The state of the s
46	Design and Analysis of Electric Bike	ANSYS To the state of the stat