

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY Permanently Affiliated to JNTUK, Kakinada, Approved by AICTE, New Delhi Recognized by UGC Under Section (2f) and 12(B) of UGC Act 1956 Aditya Nagar, ADB Road, Surampalem,533437 **Department of Mechanical Engineering**

Project Title:	Design and development of Electrical two-wheeler	
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Abstract	PO's Mapping	PSO's Mapping
Conventional vehicle systems role is increasing ay by day		
in the present world. It is also important to control the		
conventional vehicle in the point of production of the fuels	PO1, PO2, PO3,	
using to run them, emissions. In this project we have	PO4, PO5, PO6,	PSO1, PSO2, PSO3
designed an unconventional bike using the battery. In place	PO10, PO11, PO12	
of the engine, to reduce the emission and noise from the		
vehicle, we implemented the motor with battery power.		

PO1: Engineering Knowledge	PO5: Modern Tool usage	PO9: Individual & Team
		Work
PO2: Problem Analysis	PO6: Engineer & Society	PO10: Communication Skills
PO3: Design & Development of	PO7: Environment &	PO11: Project Management
solutions	Sustainability	& Finance
PO4: Investigations on complex	PO8: Ethics	PO12: Life Long Learning
problems		
PSO1: Mechanical Engineers must be	PSO2: The ability to	PSO3: As part of a team or
able to analyze, design and evaluate	work in manufacturing	individually, plan and
mechanical components and systems	and other sectors'	manage activities in micro,
using cutting-edge software tools as	operations and	small, medium and large
required by the industries from time to	maintenance plants	enterprises
time.		

Relevance to PO's and PSO's

PO1	Applied the subject knowledge in calculation for d
PO2	Studied and analysed existing designs of e bike
PO3	Structure of the frame is designed under simulation
PO4	In the Calculation part of frame, different materials
PO5	AutoCAD and Ansys workbench tools are used for
PO6	Design and fabrication of e-bike
PO7	Non-conventional energy source is applied
PO8	Ethics in design and development of product is following
PO9	Simulation of the vehicle is done by the team colla
PO10	In designing the vehicle and participated in ETWD
PO11	Business plan contains the work flow and cost con
PO12	Unconventional energy system development is nec
PSO1	Design and development of complete vehicle is tes
DSO1	Maintenance of the vehicle achieved at basic level
r502	Wannenance of the venicle achieved at basic level
PSO3	Entreprenerd skills attained



lesign parameters

Is are taken into the consideration.

r design and simulation.

llowed

aboration

DC communication skills improved

ntrol

cessary

sted in Ansys workbench for impact