



ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Permanently Affiliated to JNTUK, Kakinada, Approved by AICTE, New Delhi

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Aditya Nagar, ADB Road, Surampalem, 533437

Department of Mechanical Engineering

Project Title:	FABRICATION GO-KART	
Guide Name:	Mr. B Saroj Babu	
Students Name with Roll No.:	14P31A0314	D V S RAMA RAJU
	14P31A0351	B V V N SAI CHARAN
	14P31A0359	B V NAGARJUNA KUMAR
	14P31A0339	P SURYA PRAKASH
	14P31A0360	CH BOLONATH
	15P35A0305	J SYAM KUMAR

Abstract	PO's Mapping	PSO's Mapping
Go-Kart is the vehicle which is mainly targeted for amusement and early stages of on track racing. The Go-Kart is a low budget vehicle with the average speeds of 40 KMPH to 80 KMPH. This will have a very low ground clearance of about 20 to 70 MM, So this is mainly for the level tracks only. In this project we are working on the modelling and assembly of the Go Kart. We are going to study different materials for the frame or chassis The following report discusses about all the design parameters, procedures, considerations and the description about each and every subsystem of Go-Kart	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2, PSO3

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

Relevance to PO's and PSO's

PO1	Applied the subject knowledge in calculation for design and systems
PO2	Studied and analysed existing designs of karts
PO3	Structure of the frame is designed under simulation.
PO4	In the Calculation part of frame, different materials are taken into the consideration.
PO5	Solid works and Ansys workbench tools are used for design and simulation.
PO6	Designed chassis developed in fabrication work
PO8	Design specifications are followed with ethics
PO9	Fabrication of the vehicle is done by the team collaboration
PO10	Developed the communication with subsystems
PO11	Business plan contains the work flow and cost control
PO12	It's a part of long learning process for designing
PSO1	Design of complete vehicle is for sustainability in the running conditions by the impact tests
PSO2	Maintenance of the engine and the sub systems done.
PSO3	Entrepreneur skills attained

