



# PRAGATI ENGINEERING COLLEGE

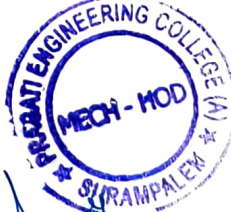
(Approved by AICTE, Permanently Affiliated to JNTUK Kakinada)  
1-378, ADB Road, Surampalem – 533 437, Near Peddapuram, E.G.Dist., A.P.  
Ph: (08852) – 252233, 252234, 252235 Fax: (08852) – 252232

DEPARTMENT OF MECHANICAL ENGINEERING

Surampalem  
Dt: 11-11-2024

## CIRCULAR

It is here by informed to all the students of B.Tech. II Year & III Year students that Go-Kart club in association with IE (I), Local Chapter of Mechanical Engineering Department is going to organize a Seminar on, “Go-Kart Chassis Design in Solid Works“ on 14-11-2024 in association with Mechanical Engineering. Interested students can enroll their names with your class teacher on or before 13-11-2024.



**HOD-ME**



**PRAGATI ENGINEERING COLLEGE**  
(Autonomous)



**Institution of Engineers (India)**

Local Chapter, Department of Mechanical Engineering  
(PEC/MC/533437)

in Association with

**Go-Kart club of Mechanical Engineering Department**

conducts

**Seminar**

**on**

**GO-KART CHASSIS DESIGN IN SOLID WORKS**

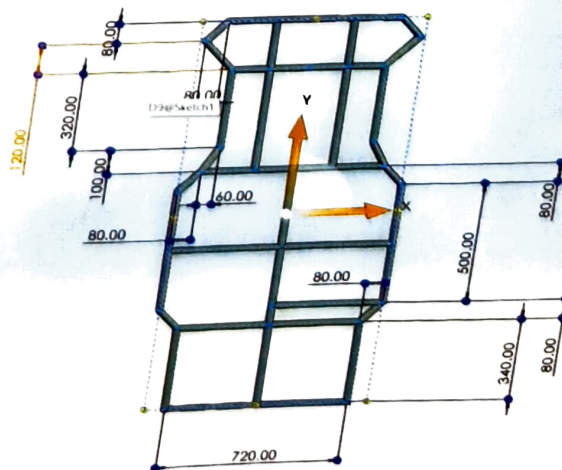
*14<sup>th</sup> November '2024 from 2:00 PM onwards (Cad Laboratory)*

**PRAGATI ENGINEERING COLLEGE: SURMAPALEM  
(AUTONOMOUS)**

**Report on “Go-Kart Chasis Design in Solid Works”**

Date: 14-11-2024

A seminar on chassis designing in solid works was conducted on 14<sup>th</sup> Nov 2024 about Introduction to various aspects involved in the design and development of **Go-Kart vehicle chassis** which was organized by **Go-Kart Club in association** with IE (I) Local chapter of **Mechanical Engineering Department, Pragati Engineering College**. In this seminar IV year student coordinators of Go-Kart club of our college, **Mr P.Sarath** and **Mr. M.Tarun Naidu** has taken the initiative and explained about the the Go-Kart vehicle chassis, In the Mechanical sector the first main aspect is the design in every manufacturing part it's the key role and when it comes to the go-kart vehicle the chassis and Body frames & side bumpers etc..The Chassis has been designed in accordance with the guidelines whilst considering factors like length, width, height. The chassis is designed in such a way that the weight of the chassis is optimum and the chassis is safe in case of an impact with other karts or the barrier present at the track. Various different iterations of the chassis were designed on Solid Works 2020 and analysed using ANSYS 2020 to finalize the optimum chassis design. For this session a total of 20 students of mechanical department has attended.

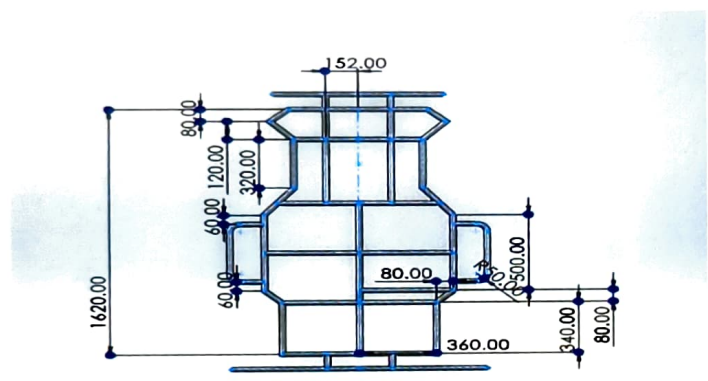




**Mr.D.J.Johnson** faculty Co-ordinator of Go-Kart club, Mechanical Engineering Department explained about various aspects of Go-Kart vehicle chassis designs & strength, build quality materials which are using for the chassis design. Since the Go-kart vehicle is small, quick, light, and simple to drive, it is designed for flat-track racing, it has a very poor ground clearance relative to most cars, The following factors were considered while selecting the chassis material:

1. Weight.
2. Strength.
3. Ease of weld.
4. Chemical properties.

AISI 4130 was selected as the material for the chassis because of its excellent physical and chemical properties. Go-karting is a form of open-wheel motorsport that involves lightweight, open-wheeled vehicles with four wheels. To feel the excitement, the chassis is independent of the suspension. So choosing an appropriate material for its fabrication and the applications of Go-Kart vehicle were discussed in this seminar.



Mr.D.J.Johnson, faculty Co-ordinator of Go-Kart club, Mechanical Engineering Department, appreciated the students for their efforts.

P. sarath  
M. Tharun  
Student Coordinator(s)

*D.J.J.*  
Faculty Coordinator

PROBATI ENGINEERING COLLEGE (A)  
MECH - HOD  
SIRAMPALAYAM  
*D.J.J.*  
HOD-ME



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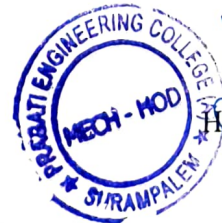
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## DEPARTMENT OF MECHANICAL ENGINEERING

**Name of the event** : GO-KART CHASIS DESIGN IN SOLID WORKS  
**Venue** : Cad Laboratory  
**Date** : 14-11-2024

S.No	Roll No	Name	Signature
1	23A31A0302	D. AVANTHI	D. Avanthi
2	23A31A0305	M. REVATHI	M. Revathi
3	23A31A0303	N. SWAPNA	N. Swapna
4	23A31A0304	R. RENUKA	R. Renuka
5	23A31A0301	B. SRI RAMYA	B. Ramya
6	23A31A0306	S. YOHANNA	Yohanna
7	23A31A0348	T.A. NARASIMHAN	T.A. Narasimhan
8	23A31A0351	V. KOWSHIK	Kowshik
9	23A31A0352	V. TRINATH	Trinath
10	23A31A0341	P. ESWAR PRASANTH	Prasanth
11	23A31A0317	CH.V.V SATYANARAYANA	Satyana
12	23A31A0313	B. SAI TEJA	Sai Teja
13	23A31A0314	B. VARDHAN	Vardhan
14	23A31A0315	B. SIVA SAI	Siva Sai
15	23A31A0326	K. KAMESTH	Kamesth
16	24A35A0314	S. Sriram.	S. Sriram
17	24A35A0302	D. Lakshmi Narayana	Lakshmi Narayana
18	24A35A0301	A. Deepak	Deepak
19	24A35A0303	D. Divakar	Divakar
20	24A35A0308	M. Durga Swathi	Durga Swathi

INCHARGE



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