



PRAGATI ENGINEERING COLLEGE

(Autonomous)

DEPARTMENT OF MECHANICAL ENGINEERING

Dt: 20-08-2025
Surampalem

CIRCULAR

It is here by informed to Mechanical Engineering students of B.Tech. 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 **“Developing the knowledge in Designing and Fabrication of Go-Kart”** on 21-08-2025 in association with Mechanical Engineering.

Venue: Machine Tool laboratory

Time: 2:00 PM to 3:30PM



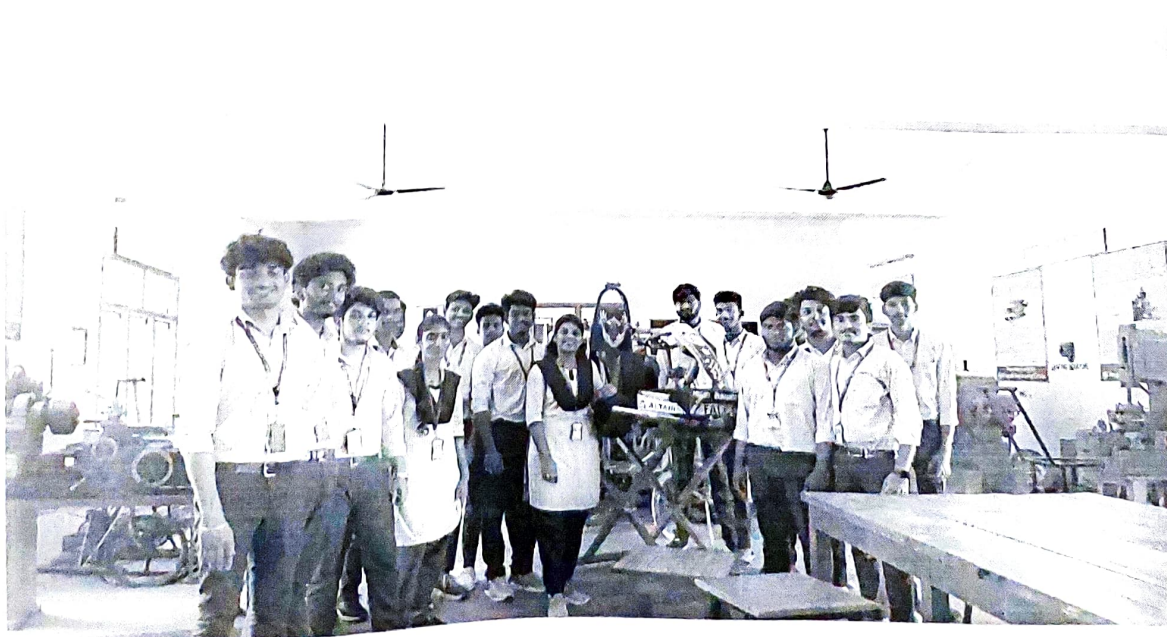
PRAGATI ENGINEERING COLLEGE: SURMAPALEM (AUTONOMOUS)

Report on “Developing the knowledge in Designing and Fabrication of Go-Kart”

Date: 22-08-2025

A One-day programme on 21st August 2025 about “Developing the knowledge in Designing and Fabrication of Go-Kart” which was organized by Go-Kart Club in association with II- (I) Local chapter of Mechanical Engineering Department, Pragati Engineering College.

In this seminar student coordinators of Go-Kart club of our college, Mr M. Shammukha Srinivas, Mr. O. Surya Rao, Mr.K. Kamesh Rao and Mr.K. Satwik, has taken the initiative explained about the design process of the vehicle which is based on various engineering aspects such as Safety and Market Availability, Financial Management such as Cost of the Components. For this session a total of 20 students from second year of mechanical department have attended.



Venue: Machine Tool laboratory
Time: 2:00 PM to 3:30PM

Students were taught how to apply for the upcoming events and challenges to be faced in events, as they are the one who will be leading the Go-Kart in the coming years. have given the deep introduction about the design and its aspects. How analysis of the frames should be done the process behind it using various modelling software like Creo and Ansys. features involved in go-kart designing software, hands on experience of assemble and disassemble of engine block has been shown.

1. Fundamentals of Vehicle Dynamics

- Understand weight distribution, center of gravity, and traction.
- Learn how steering geometry and braking systems affect performance.

2. Chassis Design

- Explore materials like mild steel, aluminum, and chromoly for strength vs. weight trade-offs.
- Study frame geometry and how it impacts rigidity and safety.
- Use CAD tools like Solid Works or CREO for modeling.

3. Power train Selection

- Choose between 2-stroke or 4-stroke engines depending on your goals (speed vs. efficiency).
- Learn about gear ratios, chain drives, and clutch systems.

4. Ergonomics & Safety

- Design for driver comfort and control.
- Include roll bars, seat belts, and fire safety measures.

5. Fabrication Techniques

- Welding, machining, and assembling components.
- Follow rulebooks like INDKC for competition compliance.

Mr. M. Sunil Raj, faculty Co-ordinator of Go-Kart club, Mechanical Engineering Department, appreciated the students for their efforts.

Student Coordinator(s)

Faculty Coordinator



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DEPARTMENT OF MECHANICAL ENGINEERING

Name of the event : Developing the knowledge in Designing and Fabrication of Go-Kart
Venue : MACHINE TOOLS LABORATORY
Date : 21/08/2025

S.No	Roll No	Name	Signature
1	23A31A0326	K. Kameswara Rao	K. K. Rao
2	24A35A0305	K. Satwik	K. Satwik
3	24A35A0306	K. Pavani Surya Kumar	K. Pavani Surya
4	23A31A0351	V. Venkata Koushik	V. Venkata Koushik
5	23A31A0348	T. A. Narasimhan	T. Narasimhan
6	23A31A0347	S. Velay	S. Velay
7	23A31A0352	V. V. B. Tevinath	V. V. B. Tevinath
8	23A31A0344	R. Sai Kothik	R. Sai Kothik
9	23A31A0336	P. D. Ashok	P. D. Ashok
10	23A31A0337	P. Vamsi	P. Vamsi
11	23A31A0309	A. Varanath Sudya	A. Varanath
12	23A31A0328	K. Satya Chakra Dhore	K. S. C. Dhore
13	23A31A0323	G. V. Ajay Kumar	G. V. Ajay Kumar
14	23A31A0342	R. Mani Deep	R. Mani Deep
15	23A31A0319	Ch. Mohan Krishna	Ch. Mohan Krishna
16	23A31A0321	K. Satya Sai Suresh	K. Satya Sai Suresh
17	23A31A0341	P. Eswar Prasanthi	P. Eswar Prasanthi
18	24A35A0311	P. V. Neelash Kumar	P. V. Neelash Kumar
19	24A35A0304	D. Mouli	D. Mouli
20	24A35A0315	S. Chandu	S. Chandu

INC. CHARGE 21/8/2025

