PARALA MAHARAJA ENGINEERING COLLEGE

A Govt. Engineering college Affiliated to BPUT

THE MIGHTY MATADORES

SMALL WHEELS BIG DREAMS.



DESIGN

Innovative Go-kart Design CAD Modelling

CONTROL

Engine Systems, Breaking, Searing & Turing

BUILD

Fabrication ,Assembly & vehicle Dynamic.

RACE

Track Testing Performance Analysis & Team Events .

PARALA MAHARAJA ENGINEERING COLLEGE

DEPARTMENT OF AUTOMOBILE ENGINEERING

GO – KARTING TEAM

BROCHURE

2025-2026

ABOUT OUR COLLEGE





PARALA MAHARAJA
(FOUNDER)

Parala Maharaja Engineering College (PMEC), Berhampur, was established on 26th April 2009 on nearly 80 acres. It has been an autonomous institution affiliated with BPUT, Odisha, since 2021 and is the only Govt. Engineering college in South Odisha. It has eight B. Tech programs and seven M. Tech programs. It is also a Nodal Centre of Research under BPUT for conducting the PhD program. The institution's main objective is to produce quality technocrats in various streams. The Government of Odisha has recognized this institution as a leading institution of repute and has a plan to develop it as a centre of excellence under plan funding.

At present, the campus consists of an institutional academic block, a central library, two workshop blocks, labs, halls of residence, playgrounds, a bank, a canteen, a utility block, etc. As the architectural plan suggests, three more academic blocks, halls of residence, staff quarters, world-class auditoria, parks, and playgrounds will be developed in subsequent phases of construction. The Silk City-Berhampur is located on the eastern coastline of Odisha. It is one of the state's oldest cities, famous for its silk work, temples, and culture. The city, a municipal corporation, is well connected by road and rail to all parts of India.

OUR VISION

Pursue academic excellence in professional education through quality teaching, learning process, industry-academic interaction and research to promote sustainable socio-economic progress.

OUR MISSION

1. Promote professional education with global aspirations.
2. Develop skill and knowledge through quality teaching
3. Provide cutting-edge academic ambience through holistic development.
4. Build linkages with corporates for nurturing professionalism.
5. Emerge as a leader in research and development to address socio-economic issues.

PRINCIPAL'S MESSAGE



Prof. (Dr.) Sarat Kumar Sahoo

Principal (In-charge)

Email: principal@pmec.ac.in

Contact: 707714001

It gives me great pleasure to welcome you to Parala Maharaja Engineering College (PMEC), Berhampur an institution committed to excellence in technical education and holistic development. Over the years, our college has earned recognition for its academic achievements, innovative practices, and consistent performance of students in university examinations and competitive platforms.

We have established Centres of Excellence to promote research, innovation, and industry-oriented learning, enabling students to gain practical exposure and stay aligned with emerging technologies. Our placement record reflects steady progress, with students securing opportunities in reputed organizations through continuous training, skill development, and industry interaction.

We encourage active student participation through various clubs and societies, including technical clubs, cultural and literary clubs, sports clubs and entrepreneurship cells. These platforms help students explore their talents, build leadership skills, and develop a well-rounded personality.

Our campus is more than a place of learning, it is a place to live and grow. Surrounded by greenery, it provides a peaceful and inspiring environment supported by well-maintained hostels and modern facilities. We are proud of our friendly and dedicated faculty and staff, who guide and mentor students with care and commitment.

At PMEC, we focus on shaping individuals who are not only technically competent but also responsible and ethical citizens. We strive to equip our students with the knowledge, skills, and values needed to succeed in their careers and in life.

HOD MESSAGE

At PMEC, we take pride in offering a comprehensive and dynamic curriculum in Automobile Engineering. Our aim is to nurture and equip aspiring engineers with the knowledge, skills, and mindset required to excel in the rapidly evolving automotive industry.

Our department is home to a dedicated and experienced faculty who are passionate about teaching and research. They bring a wealth of industry experience and academic expertise to the classroom, ensuring that our students receive a well-rounded education. They are committed to creating a conducive learning environment that encourages intellectual curiosity, critical thinking, and innovation. We understand the importance of staying abreast of the latest trends and technologies in the field of Automobile Engineering. Therefore, we continuously update our curriculum to incorporate emerging topics such as electric and autonomous vehicles, sustainable transportation, and advanced manufacturing techniques. Through a blend of theory, practical training, and industry exposure, we aim to produce graduates who are not only academically proficient but also industry ready. To complement our academic curriculum, We believe that practical learning is crucial in bridging the gap between theory and application, and our laboratories serve as platforms for students to apply their knowledge and develop technical skills.



Mr. Jayanarayana Mahakud

Assistant professor

Department of Mechanical Engineering

FACULTY CO-ORDINATORS

----------SAE-TMM CLUB | PMEC BERHAMPUR----------



DR. KANCHAN KUMARI

ASSISTANT PROFESSOR,

DEPARTMENT OF MECHANICAL ENGINEERING

(FACULTY INCHARGE, SAE-TMM CLUB)

ABOUT THE CLUB

The growing automotive industry demands skilled engineers with practical knowledge of vehicle design, manufacturing and performance. With this in mind, our Go-Kart Club focuses on providing students with hands-on experience in the field of automobile engineering through the design, development and fabrication of go-kart vehicles. With the dedicated efforts of faculty members and students, the club encourages technical learning, teamwork and innovation through various projects and competitions.

The club provides students with opportunities to enhance their knowledge and practical skills in chassis design, vehicle dynamics, powertrain systems, braking systems, suspension, steering and automotive technology. Students actively participate in designing, manufacturing, assembling and testing go-karts to develop their engineering capabilities. The club also encourages participation in national-level competitions such as Indian Karting Racing (IKR), providing exposure to real-world engineering challenges. Through these activities, the club aims to develop technically skilled, innovative and industry-ready engineers.



LOGO OF “THE MIGHTY MATADORES”

FACULTY INCHARGE, SAE-TMM CLUB

DR. KANCHAN KUMARI

ASSISTANT PROFESSOR,

DEPARTMENT OF MECHANICAL ENGINEERING

HISTORY OF TMM

The automotive club was established in 2014 and operating under the guidance of the automobile engineering society, The team actively participates in events such as Indian Karting Championship (IKC) and SKDC Season-2, showcasing their engineering capabilities and competitive spirit. Through rigorous research, hands-on manufacturing, and continuous improvements, the team strives to push the boundaries of innovation while upholding the legacy of PMEC's automotive engineering process.



PRITISH RANJAN BADAPANDRA

(1st Driver 2015-2019)



RAGHABENDRA DALAI

(1st Captain 2014-2018)



VIVEK CHAKRABORTY

(1st Vice-Captain 2015-2019)

----------OUR FOUNDERS----------

THE MIGHTY MATADORES

ABOUT OUR TEAM

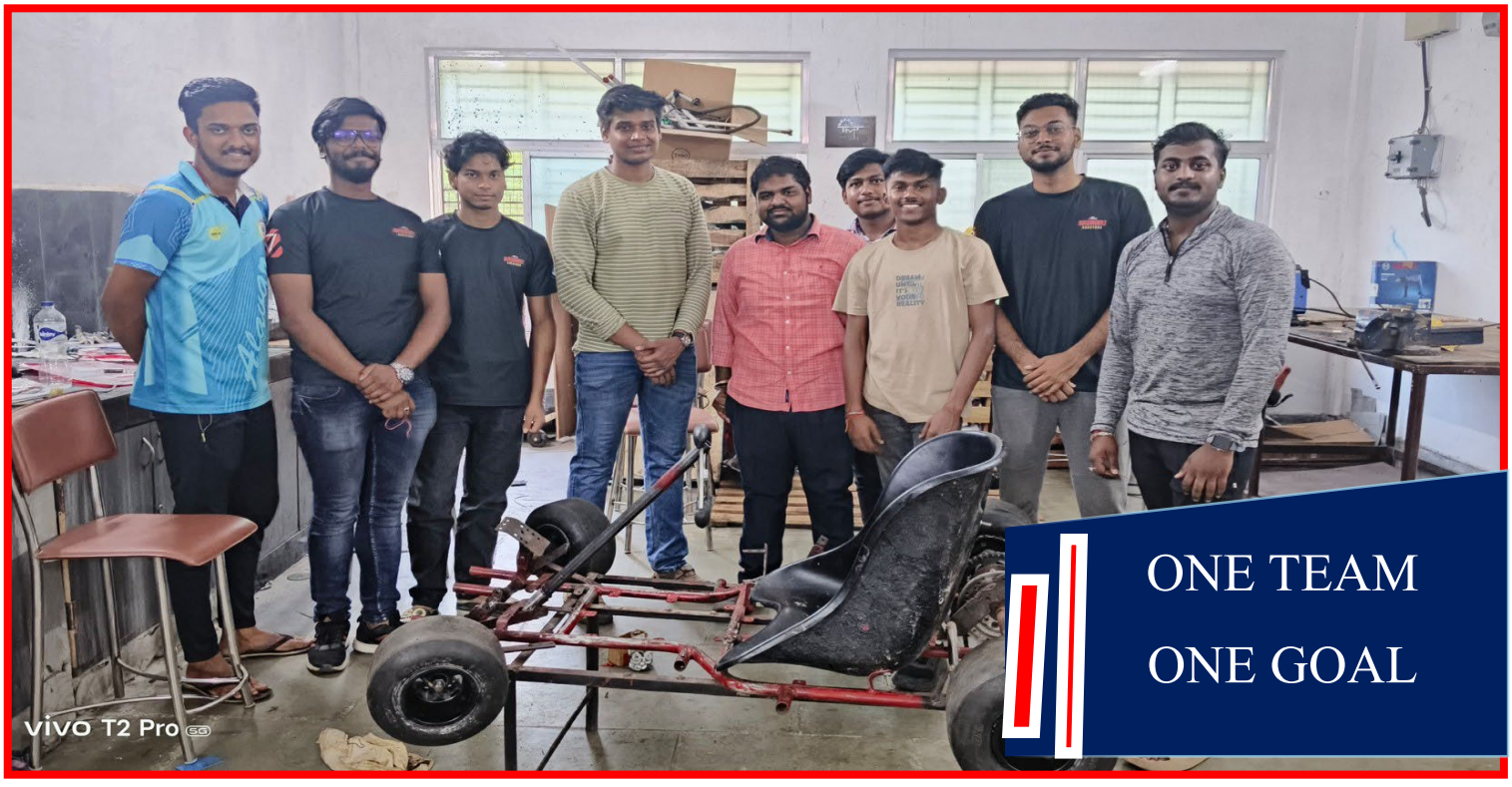
PMEC GO-KARTING ENGINEERING TEAM

The Go-Karting Engineering Team at Parala Maharaja Engineering College is a platform for innovation, teamwork, and real-world learning. We design, build and race go-karts, gaining practical exposure in mechanical, electrical and automotive systems while developing future-ready skills.

OUR PURPOSE

The aim is to provide a comprehensive overview of Go karting, exploring its history, types, tracks, safety measures, driving techniques, and future trends to inspire participation and appreciation for this exhilarating sport.

INNOVATION | **TEAMWORK** | **LEADERSHIP** | **EXCELLENCE**



OUR GO-KART

BUILDS FOR PERFORMANCE





KEY FEATURES

- ✓ Honda stunner engine
- ✓ 125 cc
- ✓ 11BHP

- ✓ Mechanical steering
- ✓ Fully smooth
- ✓ Turning radius 3 m

- ✓ Better comfort
- ✓ Better ergonomic control

- ✓ Total weight 80 kg
- ✓ Fully functional

- ✓ Disc brake arrangement
- ✓ Smooth operation
- ✓ Quick response

- ✓ SOS
- ✓ PPE Tool provide
- ✓ Fire extinguisher

ACHIEVEMENTS

AIRC SEASON –II

(PUNE, MAHARASHTRA -2017)

The Mighty Matadors (TMM) successfully participated in its first-ever Go-Karting event, marking the beginning of its motorsports journey.





SKDC SEASON – II

(HYDERABAD, TELANGANA, 2018)

TMM achieved a remarkable milestone by becoming the Champion in the Track Race, showcasing exceptional driving skills and technical excellence.







KDC SEASON – I

(PHAGWARA, PUNJAB, 2019)

The team once again demonstrated its engineering and racing capabilities by successfully competing in this national level Go karting event.

OUR OTHER GO-KART PROJECT

1st PROJECT

Making EV go- kart rear side traction



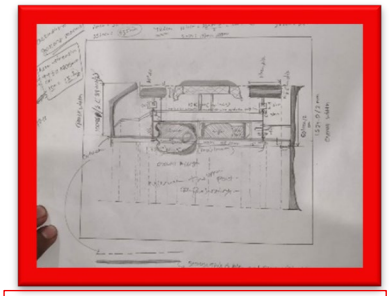
2nd PROJECT

Making go- kart side engine mounted in the year of 2025-2026

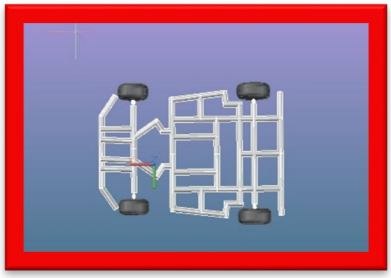


3rd PROJECT DESIGN

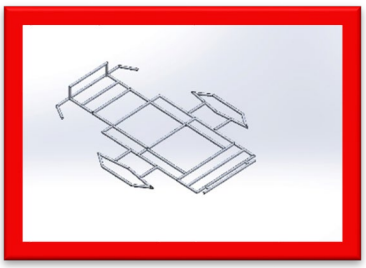
DESIGN AND PLANNING REAR SIDE ENGINE MOUNTING ON GO- KART

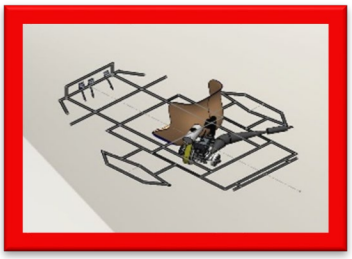


Handmade planning rear side engine mounting Go kart

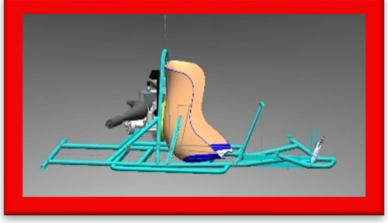


Software base (AutoCAD) planning rear side engine mounting Go kart multiple



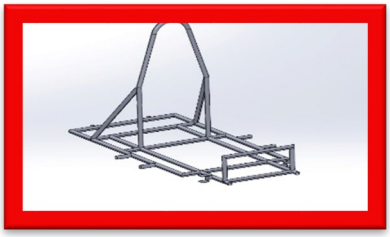


Software base (SolidWorks) for better and less error planning rear side engine mounting Go kart



Prototype planning rear side engine mounting Go kart

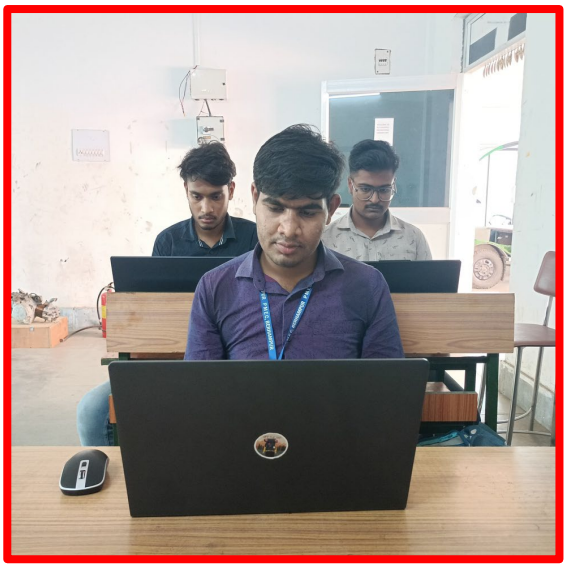




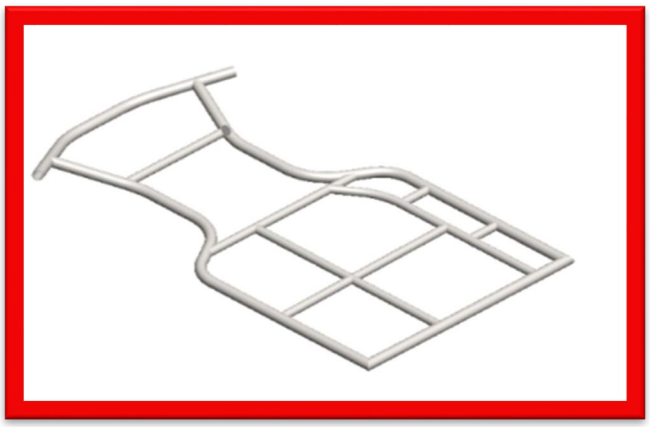
Finalized design rear side engine mounting. Go kart according to ISIE, IKR rule book

GO-KART 3D MODEL DESIGN & CFD ANALYSIS

- ✓A 3D model of a go-kart was analyzed using specialized software.
- ✓The session enhanced knowledge of computational fluid dynamics (CFD) applications in automotive



CHASSIS DESIGN







GO-KART

FABRICATION AND FREE HANDS-ON SKILL WORKSHOP











--------CONTACT US----------

HOW TO CONTACT

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