

January 22 2019

FINAL YEAR MECHANICAL ENGINEERING, PERI IT, STUDENTS PARTICIPATION IN GO KART DESIGN CHALLENGE- 2018



Indian Society Of New Era Engineers – Go Kart Design Challenge:

The aim of ISNEE GKDC is to test the functionality and ability of go karts fabricated by various teams from the different educational institutes spread across the country.

Our College Team:



25 members from PERI Institute of Technology, Department of Mechanical engineering formed a team named as MASFORCE

Student Name	Designation/Department
Ganesh Raj	Team Captain/Vehicle Dynamics
Alex Steve	Team Manager/Brakes
Gokulnath	Manufacturing Head/Vehicle Dynamics
Bolas Selvan	Head Of Brakes Department
Naveen kumar	Manufacturing/Driver 2
Dinesh Aravind	Head Of Steering Department
Brian Alister Lobow	Head Of Transmission Department
Naveen	Head Of Marketing Department

Balaji	Designing
Anil Kumar	Manufacturing
Gopinath	Transmission/Marketing
Dinesh Kumar	Designing
Bruce Winston	Brakes/Manufacturing
Ganesh Raj	Steering/Manufacturing
Alex Steve	Steering/Tool Management
Anil Kumar	Marketing/Driver 1
Hari Krishnan	Tool Management
Abiraj	Marketing
Girinath	Manufacturing/Marketing
Aldrin prakesh	Manufacturing
Purushotaman	Manufacturing
Bharani dharan	Manufacturing
Mohanraman	Manufacturing
Serbin	Manufacturing
Gopala chowdary	Manufacturing
Srinath	Service
Alwin Abraham	Painting

Thillai venthan	Painting
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Objective of MASFORCE:

MASFORCE aims at fabricating a go kart that is light and fast with enhanced ergonomics that ensures the safety of the driver and comfort without compromising the functionality or performance of the go kart.

Technical Specification

Overall Length: 1747 mm
Wheel Base: ; 1288. mm
Track Width : 1050. mm
Turning Radius: 2400 mm
Steering Effort: 4 N
Steering Ratio: 1:1
Steering mechanism: Four bar link mechanism
Steering Wheel Dia: 254mm
Braking System: Hydraulic Braking System
Master Cylinder: Clutch master cylinder
Calliper: Floating type calliper
Disc: 180.5 mm
Pedal Ratio: 4:1
Wheel Dia:(Front) 254 mm
Wheel Dia :(Rear) 279.4 mm
Gear Box: Four speed manual gear box
Engine: 150cc Suzuki GS150r
Engine torque: 14 Nm
C.G Height: 135.382 mm
Ground Clearance: 38.1 mm

Inspection and Approval:

A Skype inspection of the Go-kart was conducted on 22.01.2019. Road tests were also conducted and videos sent to the ISNEE. The team has been selected and they are now going to participate in the race to be conducted in Delhi.

A demo drive of the Go Kart was conducted in the presence of COO and Principal on 25.01.2019.

Rank secured:

Go Kart Design Challenge - 2018 (CV 150cc) Final Ranks

Kart	Team ID	Final Score	Ranks
98	20180515	677.53	1
8	20180147	677.05	2
70	20180443	621.19	3
10	20180149	606.82	4
60	20180407	575.77	5
53	20180393	551.89	6
25	20180231	504.23	7
68	20180439	490.25	8
34	20180247	468.44	9
13	20180171	426.84	10
85	20180481	421.14	11
56	20180399	400.39	12
76	20180459	395.92	13
4	20180137	391.66	14
61	20180413	381.52	15
29	20180233	378.32	16
91	20180507	375.51	17
16	20180181	368.07	18

Official Sanctioning Body

368.07



Associate Member



INDIAN SOCIETY OF NEW ERA ENGINEERS

Regd Add: H72 Dhobiyan, Ahrolla Road Baata - 246736, Uttar Pradesh West-India
www.isnee.in | info@isnee.in | 01345-286628

We secured 7th position all over India and 1st among colleges in Tamil Nadu. A shield of appreciation was given to our team and the event came to an end filled with glee.