



# **SNS COLLEGE OF TECHNOLOGY**

**(An Autonomous Institution)**

**COIMBATORE-35.**



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

## **DEPARTMENT OF AUTOMOBILE ENGINEERING**

### **COURSE NAME : 19AUE308 - SPECIAL VEHICLES**

**III YEAR / VI SEMESTER**

**Unit 5- Military and Motorsports Vehicles**

**Topic : Go-kart**



# CONTENT



- Introduction
- Components
- Construction & Working
- Advantages & Disadvantages
- Applications
- Manufacturing Companies



# INTRODUCTION



- A go-kart is a type of sports car, close wheeled car, open-wheel car
- Go-karts come in all shapes and forms, from non-motorised models to high-performance racing karts





# COMPONENTS



- Engine and Final Drive Unit
- Tubular Frame
- Pitman Arm Steering System
- Hydraulic Disc Brake
- Tyres
- Firewall
- Bucket Seat
- Bumpers
- Electrical Systems





# CONSTRUCTION



- Frame is bended and welded according to the design
- Knuckle holder, Engine bed and other attachments for assembling has been welded in the frame.
- Knuckle is bolted by means of locknut for both front wheels
- Wheel bearing is bolted to the frame assembly for both rear wheels.
- Final drive shaft along with brake disc and final sprocket has been connected to both the wheel bearing in the rear side.
- Rear wheels are connected to the drive unit
- Front wheels are connected to the knuckle assembly



# CONSTRUCTION



- Steering System is installed in the kart
- Engine is mounted on the kart in the engine bed and it is connected to the final drive
- The Fuel tank is installed in the kart
- Bucket seat and firewall is fixed in the kart through bolts and welding
- The Brake assembly comprising of master cylinder, caliper and tubes for flow is installed in the kart.
- The Clutch assembly is installed if the transmission is manual
- The Electrical assembly has been installed in the kart for Starting system, Lighting System, Ignition system





# APPLICATION

- Used to lift the man power to the required height for construction and maintenance work
- Used to lift the objects from ground floor to the required top floor
- Used in emergency situations like fire accidents.





# SCOPE FOR E-KART

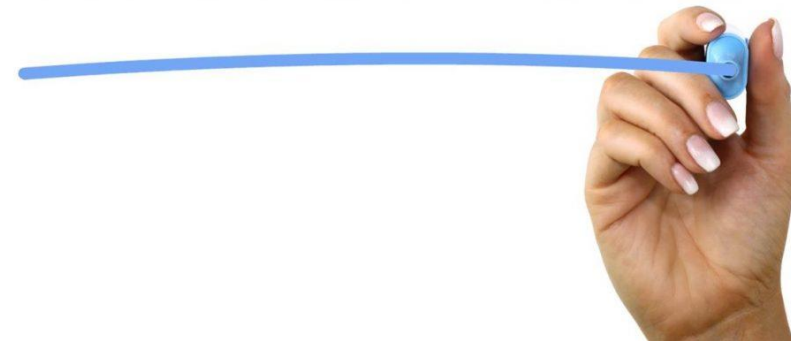






1. Mention the components of Gokart?
2. Is the Go-kart having suspension system?
3. What is the cost of Gokart?

ASSESSMENT





## REFERENCE



- ❖ <https://en.wikipedia.org/wiki/Go-kart>
- ❖ <https://www.youtube.com/watch?v=YW0zNWMya5Q>



**THANK YOU !!!**