

# Electric Go Kart

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**Abstract:** *The report aims at discussing the design procedure of the Go-Kart vehicle. The report is an account of application of extensive engineering concepts, production engineering, project management and team work. The report is a submission proof that these ideas have been efficiently and viably converted into a high performance vehicle. With the vision to eliminate the harmful gases in the air caused due to smouldering of fuel and to form a pollution-free environment, we have designed an electric go-kart. This report is aimed at designing and developing a working and more cost effective model of an electric go-kart. The design and fabrication of the go-kart are made simple so that it could be operated even by non-professional drivers. The design is made keeping in mind the high strength of vehicle which can sustain more weight and provide the best facilities at a low cost.*

**Keywords:** Go kart, Electric Vehicle, High Performance Vehicle, Project Management

## REFERENCES

- [1]. International GO-KART Championship Season 8 Rules & guideline
- [2]. Practical Finite Element analysis – Nitin S. Gokhale
- [3]. Strength of Materials – R.K Rajput
- [4]. <https://www.machinedesign.com/news/article/21817009/howto-design-a-double-fourbar-steering-system>
- [5]. <https://www.scribd.com/doc/210560529>
- [6]. <https://www.bmikarts.com/Go-Kart-Spindles>
- [7]. Race Car Vehicle Dynamics by Milliken D., Karsprak E., MetzL. and Milliken W. (2003).
- [8]. Thomas D. Gillespie “Fundamentals of Vehicle Dynamics”
- [9]. "Breaking system of go-kart" by IARJSET vol.4, issue 5 may 2017
- [10]. "Design of breaking system of go-kart" IJETER Volume 5, Issue 11, November (2017)
- [11]. B.Babu, M.Prabhu, P.Dharmaraj, R.Sampath 2014 Stress Analysis of Steering Knuckle of Automobile Steering System International Journal of Research in Engineering and Technology.
- [12]. Advance vehicle Technology by Heins Heisle