

# Design and Analysis of Electric Go-kart Suspension

**Mr. Abhishek Virupaksh Khalipe<sup>1</sup>, Ms. Akanksha Subhash Shedage<sup>2</sup>, Mr. Mangesh Ankush Pawar<sup>3</sup>, Mr. Shubham Jayawant Patil<sup>4</sup>, Prof. Vaibhav V. Edake<sup>5</sup>**

Students, ISB&M College of Engineering, Nande Village, Pune<sup>1,2,3,4</sup>

HOD, ISB&M College of Engineering, Nande Village, Pune<sup>5</sup>

**Abstract:** *For the most part, the primary goal is to plan and create the electric go-kart with uniquely planned twofold wishbone suspension framework, the plan incorporates 40\*40mm square cross-segment empty cylinder for the development of case and 30\*30mm square cross-area empty cylinder for twofold wishbone arms, electric engine and battery of 48v are utilized to run the go-kart. The twofold wishbone suspension utilized in Go-kart which further develop solace and help the Go-kart to drive in city as well as unpleasant street. Likewise gathering another alternator which charge the battery while the Go-kart is running which assists with expanding the distance went by the Go-kart. Primary center is to plan the twofold wishbone suspension for the Go-kart.*

**Keywords:** Roll Centre, Stiffness, Spring, Strut, Go-kart, Double Wishbone, etc.

## REFERENCES

- [1] Nader Abedrabbo and Robert Mayer (2009) "Crash response of advanced high-strength steel tubes: Experiment and model" Science Direct paper pp.1044-1057
- [2] Xin Yang, Yong Xia, Qing Zhou, Pei-Chung Wang and Kathy Wang (2012) "Modeling of high strength steel joints bonded with toughened adhesive for vehicle crash simulations" Science Direct paper pp.21-32
- [3] Lawrence L. Hershman "THE U. S. NEW CAR ASSESSMENT PROGRAM (NCAP): PAST, PRESENT AND FUTURE" National Highway Traffic Safety Administration
- [4] Javad Marzbanrad, Masoud Alijanpour, Mahdi Saeid Kiasat "Design and analysis of an automotive bumper beam in low-speed frontal crashes" Science Direct paper 2009
- [5] M. Anil Kumar Design and Analysis of Car Bumper by Varying Materials and Speeds International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE) ISSN: 2349-7947.