DESIGN AND FABRICATION OF CHASIS FOR THE GO - KART

A PROJECT REPORT

Submitted by

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in partial fulfillment for the award of the degree

of

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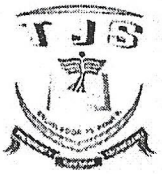
in

MECHANICAL ENGINEERING



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BONAFIDE CERTIFICATE

Certified that this project report **"DESIGN AND FABRICATION OF CHASIS FOR THEGO - KART"** is the bonafide work of **"K.BALAMURUGAN (112819114002), R.DIVAKAR (112819114006), M.KOWSHIK (112819114011), N.SNEGHAR (112819114023)"**, who carried out the project work under my supervision.

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ABSTRACT

A go kart is a small four wheeled vehicle basically used of traditional kart racing and amusement purpose. We designed and fabricated a go kart for participation at the national go kart championship. The design includes applications of extensive engineering analysis, teamwork, project management, and development of conceptual ideas. These ideas have been then converted into viable concepts ready for fabrication. The main objective of the design is to make a car that is durable as well as reliable and will last through the endurance using parts that are cost effective and easily available in India. The kart has been designed using sound design principles. The principle of triangulation has been extensively used to make sure that the chassis is extremely rigid and provides a safe cocoon for the driver in case of an accident. The vehicle has been designed in such a way that the reliability is not compromised in the pursuit of speed. The wheel and suspension geometry have been designed taking into account the track layout and prevailing conditions.

Keywords: Analysis, Teamwork, Durable, Reliable, Sound design principles, Triangulation

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