

FABRICATION OF ELECTROMAGNETIC BRAKING SYSTEM

A Project report submitted In the partial fulfillment of the requirements for award of

Degree of

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IN

MECHANICAL ENGINEERING

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CERTIFICATE

This is to certify that the project entitled “**Fabrication of Electromagnetic Braking System**” is the record of the work carried out by **Ch Manikanta Swami (16811A0314)**, **G Sai Kumar (16811A0328)**, **A Surya Naryana (16811A0303)**, **R Rambabu (16811A0374)** and **P Hemanth Kumar (16811A0365)** students of final year B. Tech in the department of Mechanical engineering. This work is done for the partial fulfillment for the award of BACHELOR OF TECHNOLOGY during the year 2019-2020.

Project Guide

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ABSTRACT

Electromagnetic brake slows down a moving object by means of electromagnetic induction, in which it will create a resistance. A pressure is created by the friction brakes on two separate objects to gradually reduce the speed of the vehicle in a controlled way. The current of the magnet turns in the form of heat of the plate which will reduce the kinetic energy. In this magnetic type of braking system whenever force is applied by the driver on the brake pedal the intensity of braking is sensed by a pressure transducer and delivers the output actuating signals to the microprocessor. This controller sends a signal to the capacitor and from the respective unit a pulsating D.C. current is sent to the power pack. As per the driver's requirement a proportionate torque is developed to decelerate the vehicle