**AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER-422608**

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**A**

**PROJECT REPORT**

**ON**

**“DETACHABLE SIDE WHEEL SYSTEM FOR TWO WHEELER VEHICLE”**

Submitted by,

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Year: 2018-19

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**CERTIFICATE**

**This is to certify that the Project entitled**

**“DETACHABLE SIDE WHEEL SYSTEM FOR TWO WHEELER VEHICLE”**

has satisfactorily completed by,

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**As per requirement of Savitribai Phule Pune University in partial fulfillment of degree in Electronics &Telecommunication engineering for the second semester of academic year 2018 - 2019.**

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**“AUTOMATIC SOLAR PANEL PARAMETERS MEASUREMENT WITH DUST CLEANING AND DUAL TRACKING FACILITY”**

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**ACKNOWLEDGEMENT**

First, we would like to express our best regards to our Project Guide Prof. Mr. C. D. BHOS whose valuable guidance, encouragement, and provision of necessary facilities made this work possible. We are also thankful to our respected Head of the Department Dr. Ms. R. P. LABADE whose help and shared knowledge was the main support to do our project. We are also thankful to project coordinator Dr. S. R. Jondhale for his continuous support. Many thanks are owed to our classmates for their useful discussion and timely suggestions. Their technical support and encouragement helped us to finalize our project.

Our special thanks to who helped us a lot through the problems we came across. We are absolutely grateful to all non-teaching staff for their assistance which is key factor behind our project work. We would also like to express our gratitude towards the college for providing us with the best facilities and proper environment to work on our project. Last but not the least thanks to our respected Principal Dr. M. A. VENKATESH for continuous motivation.

Finally we offer our great thanks and regards to our family for their support which helped us through the difficulty and hardships of life to earn this achievement. Ultimately we would like to devote all praise and honors to supreme personality ‘God’ for grace and inspiration.

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**ABSTRACT**

In India, now a days many special persons need a motorcycle for transportation. Normally a motorcycle design is modified for the special person. The main problem with such vehicle is that due to the modified design the motorcycle becomes usable only for special person and not for a healthy person. In our project we have designed a detachable side wheel system for a motorcycle using electromagnet. We have used a copper coil winding for generating the electromagnetic flux. 12V,7Amp battery is used for energizing the coil. We are all familiar with the permanent Magnet but there are other magnets called as Electromagnet that can be turned on and off. When turned on they act just like the permanentmagnet but if we turn off them their magnetic properties disappear. We are using this magnet for convenience of the removing the side wheel of the motorcycle and attach any other accessories with ease. This system allows the motorcycle to carry any type of the side system.This reduces the cost of the modification of the two wheeler vehicle and also make the vehicle comfortable for both the special and the normal person. The same concept can also be used for other applications with few modifications as per the requirement.

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