VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum-590014, Karnataka, INDIA

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Project Report

ON

"DESIGN AND DEVELOPMENT OF A LOW COST ENVIRONMENTAL FRIENDLY AND SELF BALANCING SCOOTER"

(Sponsored by KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY, IISc Bangalore)

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BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

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ABSTRACT

A self balancing scooter covers the modeling and design of a co-axial two wheel scooter to provide a method of human transport. The aim of this project is to achieve the design and build a device that behaves in a similar manner of that of an environmental friendly human transporter (Solar, Wind, and Battery) and to reduce the cost.

The Segway has a number of interesting features which promote it as a good choice for a robot platform for a number of operational domains. It also has some weaknesses. The machine is fairly inexpensive from a robotics point of view. The process used to maintain the scooter in the upright position is similar to that used by humans to balance. Nowadays in multinational companies and large institutions always there is a need to move from one place to another which is impossible to reach the destination in a particular time by walk to overcome these difficulties an environmental friendly scooter has been useful .

To achieve self balancing scooter we tried five concept but we could not get turning of the scooter. So finally we have put a guide wheel in bottom of the handle. A self balancing two wheeler can be implement in future for human transport.