

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM- 590002**



Project Report
On
FABRICATION OF SMART BICYCLE



KSCST APPROVED

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BACHELOR OF ENGINEERING
IN
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ABSTRACT

A Personal Transportation device finds great applications due to the convenience of its utilization. It can be used in transportation for inter-departmental movements in institutions, universities, industries, hospitals, shopping centers, security purposes and so on. This vehicle is very compact, easy to operate, pollution free and conveniently run on the side walk, ramps and buildings.

In the present work, an attempt is made to fabricate “SMATR BICYCLE” (Battery operated vehicle) a 2 wheeler run by electrical energy can run up to **40 kmph**. Provisions for changing the speed and turning the vehicle have been provided by incorporating the accelerator, steering handle .This vehicle can hold up to approximately 70 kg Load and can handle small angle ramps and elevations.

This vehicle is fabricated for use in public roads and in bussy roads to meet transportation for people and also for aged people. This presents an opportunity to invest in Green Fleet, which is ideal for all employees’ right from senior level to mid-level to junior Executives. The efficient SMART BICYCLE helps people preserve precious time and the energy & enables them with fast and convenient mobility solutions. In the present work we have planned to fabricate a simplified version of “**e bike**” which is popularly used in western countries for similar application. We have made an attempt to simplify the constructional and production costs by replacing gyroscope and microcontrollers with purely mechanical parts.