



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

PROJECT REPORT ON  
**“ELECTRONIC TALKING STICK FOR  
VISUALLY CHALLENGED”**  
(SPONSORED BY KSCST)

Submitted in partial fulfillment of the requirement for the award of degree of

**BACHELOR OF ENGINEERING  
IN  
ELECTRONICS AND COMMUNICATION ENGINEERING**

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2010-2011**

## **ABSTRACT**

To design an equipment for the visually impaired people to make them walk more efficiently by providing the indication and voice message about the presence of any obstacles on their way. The stick also enables the blind man to become independent and also leads their life with less support from others; it may be just the first step in helping blind people more easily get around by themselves.

The Smart project uses ultrasonic sensor and GPS device to detect obstacles, appropriate place and alert the user on where and how to navigate while walking, Equipped with an ultrasonic sensor, the project works in tandem with a navigational system. Together, they detect obstacle in front of user while walking and also detect the where the person is using GPS engine.

The design and architecture of this project is fairly simple and can be easily implemented in large scale for more advanced and efficient applications. New business concepts can be designed and realized because each unit is compact and totally self contained.