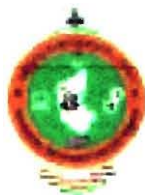


**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
BELGAUM**



**A Project Report on**

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# **"PC CONTROLLED LAND ROVER"**

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**(KSCST Approved)**

**Submitted in Partial fulfillment for the award of Degree in Bachelor of Engineering  
In  
Electronics & Communication Engineering  
For the academic Year 2009-2010**

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# **ABSTRACT**

The main objective of this project is to design a pc controlled land rover that has the ability to move around almost in any terrain place and can transmit the live images to pc. The rover can be moved in forward, reverse, left, right and it uses the drive method used in Military tanks (differential movement). The rover has a RF transceiver through which it communicates with the user. The rover has various sensors onboard like ultrasonic sensor, left and right obstacle sensor, temperature sensor etc which helps in safe navigation of the rover also these data is transmitted to the user to be monitored through the user interface software. The software can be used to control whole aspect of the rover like directions, light Camera etc.

The rover has an onboard color camera which transmits the live video to the user software also the user can snap the photos from live video the camera can also be moved horizontally by 180 degrees, servo motor is used to rotate the camera. The ultrasonic module on the rover helps in detecting the obstacles which is in front and if any obstacle is there it comes back one step and takes left or right turn. We are using the latest technology in the applications like military, monitoring traffic control, etc.