

VISVESWARAIAH TECHNOLOGICAL UNIVERSITY



**A PROJECT REPORT ON
WIRELESS TILT JOYSTICK**

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**BACHELOR OF ENGINEERING
IN
ELECTRICAL AND ELECTRONICS**

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ABSTRACT

Wireless communication is the transfer of data using electromagnetic waves in place of conventional wires. Wireless technology has come a long way since its first use mainly for military purposes during the world wars. This project attempts to apply the concepts of embedded systems along with wireless technology to control a robot.

The aim of this project is to design a wireless tilt joystick which controls the movements of a robot. The tilt joystick doesn't require buttons like a normal joystick. Here the object movement is controlled merely by tilting the joystick.

The project uses an accelerometer which detects the magnitude and direction of the acceleration as a vector quantity. Thus the tilt of the joystick is recorded by the accelerometer and the robots movements are governed based on these values.