

**H.K.E. Society's
POOJYA DODDAPPA APPA COLLEGE OF ENGINEERING
Gulbarga -585 102**

***(An Autonomous Institution, Affiliated to
VTU Belgaum, and Approved by AICTE)***



**A
Project Report
On**

**“EYEBALL MOVEMENT SENSOR BASED AUTOMATIC
WHEELCHAIR MOVEMENT FOR PARALYZED PATIENTS”
(SPONSORED BY KSCST, BANGALORE)**

**Submitted to the
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(An Autonomous Institution, Affiliated to VTU Belgaum, and Approved by AICTE)
In partial fulfillment of the requirement for the award of the Degree of**

**BACHELOR OF ENGINEERING
IN
INSTRUMENTATION TECHNOLOGY**

SUBMITTED BY:

DEEPAK KUMAR.M.	3PD07IT009
HARISH A HUDDAR	3PD07IT010
JYOTHI HIEMATH	3PD07IT011
K. JAGANNATH	3PD07IT012

**Under the Guidance of
*Prof. SUDHEER PATIL***

**DEPARTMENT OF INSTRUMENTATION TECHNOLOGY
P.D.A. COLLEGE OF ENGINEERING (AUTONOMOUS INSTITUTION)
GULBARGA – 585 102
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ABSTRACT

The proposed project enables physically challenged persons like paralytic patients or physically disabled patients or patients having acute diseases like Parkinson's disease. The particular project is useful for the patients where they can move their wheelchair in their own directions, without any third party's help or support.

In this project, there will be a wheel chair model known as 'IntelliChair', which will contain an in-built PIC Microcontroller which will direct the functions like right, left, forward and reverse operations to stepper motor. The wheel chair is designed in such a way that it can move freely without external support or dependency. Through with this feature the patient can enable movements of their wheelchair as per their desire. Moreover the wheelchair also contains three sensors namely Intruder Sensor, Flame Sensor and a Thermistor assisted by an alarm to sense the obstacles in front of it and change the direction automatically.