

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM**



**A Project Report on
“AUTOMATED VOICE BASED HOME NAVIGATION SYSTEM FOR
ELDERLY AND PHYSICALLY CHALLENGED”**

**(Funded by Karnataka State Council For Science and Technology(KSCST))
Submitted in Partial fulfillment for the award of Degree in Bachelor of Engineering
In Electronics & Communication Engineering
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ABSTRACT

This project is meant for the paralyzed patients who cannot walk or move their hands. To help such people move on their own, this wheel chair can move according to the voice instruction and head movements of the patient. This system will have record of the patient's critical information heart beat rate. This data is very important in emergency cases, when the doctor needs the recent medical history of patient, he can get it from this system. A heart beat rate sensor is placed on the wheel chair. This sensor records the values and if the value of the sensor goes out of normal range, then it sends message through BLUETOOTH to the care taker of that patient. Also by making use of IHNS, once the system is started, the voice capture module waits for the voice to be captured and recognized. The captured voices can be of two different types. Voices can be specific to each room like kitchen, hall, restroom etc. or voices for general directions like left, right, front, back etc.