

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
BELGAUM 590014**



**DHARWAD-580 002**

**A PROJECT REPORT ON**

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**NIYANTRAN**

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## ***ABSTRACT***

*'NIYANTRAN' is a head controlled mouse input device for disabled users. The project aims at design of a system which is capable of helping quadriplegic individual. The system uses accelerometers to detect the user's head tilt in order to direct mouse movement on the monitor. The clicking of the mouse is activated by the pointing the cursor on the required folder for pre-determined time. This may help in replacing the mouse for easy navigation by the individual. The system aims at giving the freedom and independence for the disabled person to operate and work on the computer on his own.*