VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAUM – 590 014

A PROJECT REPORT ON

"REMOTE MONITORING SYSTEM TO IMPROVE EDUCATIONAL ACTIVITIES OF VISUALLY IMPAIRED STUDENTS"

(Approved by Karnataka State Council of Science and Technology)

Submitted in the partial fulfillment of the requirements for the award of degree of

BACHELOR OF ENGINEERING

In

COMPUTER SCIENCE & ENGINEERING

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ABSTRACT

The didactic activities oriented to visual impaired people have always played an important role, from a social point of view as well as a scientific one, on account of their complexity, but also for the difficult relations between such people and the tutors.

A good relationship between the teacher and the student suffering from sensorial deficit can enable the student attaining results comparable to the ones attained by the other students. During the teaching activity on informatics, the visually impaired student should be provided with useful kinds of assistance.

A tool that could improve the quality of the assistance perceived by the visually impaired students has developed in this project. The work of qualified supporting teachers could be highly improved by the use of suitable software and hardware facilities allowing for remote monitoring of students' physical and working condition. This could highly reduce the need for a continuous presence of a tutor that might downgrade students' self-esteem.

Especially during the test in the classroom it is very important that the student doesn't feel the proximity of the tutor, sometimes embarrassing: indeed, he can be afraid of not understanding. For this reason, there is a need of remotely monitoring the working condition of the student in order to catch sight of possible difficulties happened to the user, with the purpose of arranging suitable assistance.

The interaction between the student and the personal computer should be evaluated on the basis of both the status of the PC station adopted and the values of some biophysical parameters of the student himself.

In our project, we have used RFID based system for the authorization of the student, Multi-sensorial network for monitoring the biophysical conditions of the user and a distributed system for the remote monitoring of the user and the PC status.