

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELGAUM**



A Project Report On
**“REMOTE MONITORING OF EDUCATIONAL ACTIVITIES OF
VISUALLY IMPAIRED STUDENTS”**
(SPONSORED BY KSCST, BANGALORE)

**A dissertation submitted to the Department of *Instrumentation Technology* of
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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. Qualified supporting teachers certainly can greatly improve the effectiveness of the didactic activities. 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; moreover, the environmental condition and his health conditions should be continuously and in real time monitored in order to evaluate the development and the difficulties.

Anyway the continuous presence of either an assistant (social worker?) or a tutor can depress the student. 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.

This project works on a server- client model, heart rate as biophysical parameter. A continuous plot of heart rate is displayed at the server side.