

**DESIGN & IMPLEMENTATION OF INTELLIGENT POWER
SAVING AND CLASSROOM MONITORING SYSTEM FOR
EDUCATIONAL INSTITUTIONS**

(Sponsored by K.S.C.S.T., Bangalore.)

A Project Report
submitted in partial fulfillment of the requirements
for the award of the Degree of Bachelor of
Engineering in Electronics & Communication
of the Visvesvaraya Technological University, Belgaum

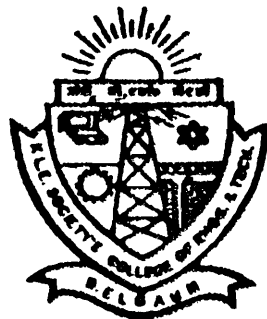
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ABSTRACT:

Curiosity, quest for knowledge, inevitably has put the mankind at the doorstep of cutting edge technology. Electronics, the domineer of advanced science gives genuine logic for implementing ideas in real time applications. Here is a project that can be used in real time.

In India, the demand for power is projected to double by 2020. The Indo-US nuclear deal is a step in this direction to bridge the demand and supply gap. Furthermore, we know that hydel and thermal resources are limited. Hence only increasing production capacity will not help much. So to ease the burden, the focus should be on saving power specially in large institutions, where unknowingly lot of power is wasted. It is observed that in most of the large institutions & professional colleges, many electrical appliances such as tube lights, fans, computers, etc are ON continuously without the need since the user has turned them ON & forgot to switch OFF. In such cases lot of electrical energy is wasted.

The second part of this project helps the authorities in monitoring the conduction of classes by faculty members. It displays the current status of classrooms, thus avoiding physical inspection of classes around the campus. The classroom monitoring system records the status of class conducted/not conducted as per the scheduled time table, which the authorities can refer later, to know the status of work schedule during their absence.