

“EMBEDDED DESIGN FOR POWER OPTIMIZATION”

A Report Submitted to
MSRIT
Bangalore

For partial requirement of award of degree of

BACHELOR OF ENGINEERING
IN
INSTRUMENTATION TECHNOLOGY
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May 2012

ABSTRACT

In the recent times there is a serious power problem in India especially in rural areas. Energy generation and environmental conservation are the twin issues arising from exploitative interaction of man with natural resources. Renewable energy is rapidly gaining importance as an energy resource as fossil fuel prices fluctuate. One of the most popular renewable energy sources is solar energy.

In this project EMBEDDED DESIGN FOR POWER OPTIMIZATION, the main goal is:

- To make use of non-conventional source of energy in an efficient manner for control operation.
- To increase the solar panel efficiency by the use of solar tracker in the project.
- To minimise energy consumption by varying LED illumination as per the requirements.
- To save power by controlling the fan speed according to the room temperature.