

VISVESVARAYATECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum-590014



A Project Report on

**“THERMAL IMAGE SENSING USING WIRELESS
COMMUNICATION”**

Sponsored by Karnataka State Council for Science and Technology

Submitted in partial fulfilment of the requirement for the award of the degree

BACHELOR OF ENGINEERING

in

ELECTRONICS & COMMUNICATION ENGINEERING

by

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ABSTRACT

The purpose of this project is to build a wireless thermal sensing device. This system can be used in defense for security surveillance.

Our project has verified that it is possible to build a small-scale Thermal sensing device that could be used for both military and commercial use. Our team's Thermal sensing device is a very limited version of what could be created in a production facility using more advanced technology.

Currently the device can detect the presence of humans by temperature values and determine the distance at which they are present. And the range of distance between an object and device can be determined.

We have proven that it is possible to produce a small scale Thermal sensing that performs functions of interest to the military as well as commercial/industrial applications.