VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Belagavi – 590 010

PROJECT REPORT
ON

"SMART PAROXYSM PREDICTION AND LIFE SAVER SYSTEM"

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

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

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CERTIFICATE

Certified that the project work entitled "**SMART PAROXYSM PREDICTION AND LIFE SAVER SYSTEM**" *is a bona fide work carried out by*

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In partial fulfillment for the award of BACHELOR OF ENGINEERING in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2015–2016. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Signature of the Guide **Ms. Shreedevi Subramanya**	**Signature of the H.O.D** **Prof. Raghavendra Rao A**	**Signature of the Principal** **Dr. Peter Fernandes**

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ABSTRACT

Epilepsy is a common chronic neurological disorder, which is marked by seizures. It is usually caused by excessive discharge of cortical cells from the brain. It is undetectable and may lead to paroxysms. The very common symptoms of epilepsy includes sudden fluctuations in heart beat rate and involuntary muscular movements (seizures). Sudden occurrence of seizures during driving may lead to accidents and its occurrence during sleeping hours can even lead to the patient's death, if no immediate, proper attention is provided by a bystander or a doctor. Since the occurrence of seizures is unpredictable, it will be a very risky task to leave the patient alone. The wireless electronic diagnosing system designed here is exclusively meant for epilepsy patients. The device is designed as wireless, personal equipment. The device can sense the aura of pre ictal stage in a few minutes advance and takes the necessary safety measures automatically. Therefore this device will be extremely useful for patients who wish to be active in their life. The electronic system presented here utilizes the signals from human body to detect the occurrence of epilepsy. As soon as the device detects the symptoms, it transmits a coded signal. The signal is decoded to produce control signals for switching an alarm device, mobile messaging device and an automatic vehicle control system appropriately.