

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**“Jnana Sangama” Belagavi – 590 018**



**PROJECT REPORT ON**  
**“SMART HOSPITAL MANAGEMENT SYSTEM FOR**  
**RURAL AND SEMI URBAN AREAS”**

**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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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
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**A+, ACCREDITATION NY NACC AND NBA, MIJAR ,**  
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# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

A+, ACCREDITATION NY NACC AND NBA, MIJAR ,

MOODBIDRI- 574 225.

(Affiliated to VTU, BELAGAVI)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

## CERTIFICATE

Certified that the project work entitled "SMART HOSPITAL MANAGEMENT SYSTEM FOR RURAL AND SEMI URBAN AREAS" 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 2023-2024. 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.

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## ABSTRACT

With the exponential growth in various technologies today, IoT is one of major domains which has found a broad spectrum of applications. The aim is to increase the quality of healthcare facilities with the help of IoT. The requirement of proper healthcare facilities in rural areas are yet to be covered. This abstract introduces a novel approach for providing the proper health care facilities to the people in the rural areas where there is unavailability of doctors. The system also helps in improving the quality of life of the people in rural areas. Various sensors like ECG sensor, temperature sensors, heartbeat sensors and others collect the vital data from the patient and store in the IOT cloud, and this data is used and made available to the remote doctors. The webpage using frontend and backend technologies is developed for patient easy interface. The patient will connect to a remote doctor through video call. The video call link, patient's collected real time vital data and prescription form will be sent to all registered doctors so that any doctor who is free can join the video conference and assist the patient. After discussion with patient the doctor will fill the prescription form will be filled and the prescription will be made available to patient. This reduces expenses of long distance travel to seek medications. This implementation not only promotes the growth of the healthcare facility in the country but also utilizes the best of the IoT applications for the welfare of the society.