# VISVESVARAYA TECHNOLOGICAL UNIVERSITY, JNANA SANGAMA BELAGAVI



## A PROJECT REPORT ON

## "A MOBILE HEALTH NETWORK DISASTER MANAGEMENT SYSTEM"

SUBMITTED IN PARTIAL FULFILLMENT FOR THE AWARD OF DEGREE OF

## BACHELOR OF ENGINEERING

IN

## INFORMATION SCIENCE AND ENGINEERING

BY

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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

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## 2016 – 2017

# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
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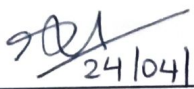
## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## CERTIFICATE

This is to certify that the Project entitled *"A MOBILE HEALTH NETWORK DISASTER MANAGEMENT SYSTEM"* has been successfully completed by
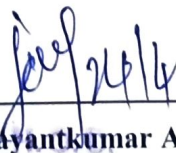
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The bonafide students of Department of Information Science & Engineering, Alva's Institute of Engineering and Technology in partial fulfilment for the award of BACHELOR OF ENGINEERING in **DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2016–2017.

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.

24/04/17

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# ABSTRACT

The project "A Mobile Health Network Disaster Management System" aims to enable communication during natural disasters, which causes the rapid destruction of the telecommunication infrastructure. While destruction is inevitable unfolds, which tends to halt the necessary communications between the humanitarian operators and the people in need. In such scenarios, the deployment of wireless networks would provide fast and temporary remedies, however these networks normally do not provide services to the end-users and ordinary people, instead they provide connectivity between groups of end-users administered by a local service provider. From a range of services provided to the end-users by the humanitarian operators, healthcare is by far the top priority.

Health care is considered through the utilization of smart phones in a Mobile Health (mHealth) perspective, which is an emerging concept for monitoring and tracking end user health conditions. A mHealth system used in a tsunami-stricken disaster scenario, including a discussion on the most recent advances of Device to Device (D2D) and LTE-Direct technologies. It accommodates disaster recovery process in an environment without functional telecommunication services. It helps the people from the disaster stricken area.