

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI, KARNATAKA-590 018**



An Innovation/Societal/Entrepreneurship based Internship Report
*Submitted in partial fulfilment of the requirements for the award of
Degree of*

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

by

Mr. SANDESH MATHAI

USN: 4JK21EC044

Internship Carried out

at

DLITHE, Mangaluru

Mentor

Mrs. Thrapthi Shetty

Assistant Professor



**Department of Electronics and Communication Engineering
A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(A unit of Laxmi Memorial Education Trust®)

NH-66, Kottara Chowki, Mangaluru – 575006

2023-2024

A. J. INSTITUTE OF ENGINEERING AND TECHNOLOGY
(A UNIT OF LAXMI MEMORIAL EDUCATION TRUST®)
NH-66, KOTTARA CHOWKI, MANGALURU -575006.



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

CERTIFICATE

Certified that the **Innovation/Societal/Entrepreneurship based Internship** report submitted by **SANDESH MATHAI**, bearing USN: **4JK21EC044**, is a bonafide student of **A. J. Institute of Engineering and Technology** in partial fulfilment for the award of Bachelor of Engineering in Electronics and 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 and deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the said degree.

Thrapthi

Mentor

Mrs. Thrapthi Shetty

Diya A
Internship coordinator

Mrs. Diya A



Kiran VG
HOD

Dr. Kiran Kumar VG
H.O.D. - Electronics & Commn. Engineering
A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY
Mangaluru - 575 006, D.K., Karnataka

Principal
Principal

A.J. Institute of Engineering & Technology
Mangaluru - 575 006

Name of the Examiner

Signature with Date

- Thrapthi Shetty*
- Sahana K Adyanthaya*

Thrapthi 06/01/24
Relu 6/1/2024



Dlithe Consultancy Services Pvt. Ltd.
CIN: U72900KA2019PTC121035

Atal Incubation Center
AIC Nitte

27 November 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify **Sandesh Mathai**, bearing USN No: **4JK21EC044** from **AJ Institute of Engineering and Technology, Mangalore** has successfully completed one-month internship starting from **27-10-2023** to **27-11-2023** under the mentorship of Dlithe's development team. **Sandesh Mathai** has worked on various micro-controllers, SoC, sensors, actuators with real time web server development, integrating with IOT platforms using C, C++ programming. Exposure on various communication protocols TWI, SPI and UART was also provided with real-time project implementation of IOT application.

The domain & agile development process exposure was given along with usage of GitHub tool.

During the internship, **Sandesh Mathai** demonstrated good coding skills with good design thoughts.

We wish all the best for future endeavours!

Rohan

For Dlithe Consultancy Services Pvt Ltd
Director

Apnaal

For Atal Incubation Center, Nitte
Dr. A P Achar – CEO, AIC Nitte

Certificate ID: NOV2023IOT4513851