VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590018

Mini Project Report On

"The Design and Implementation of Optimized Transistor Level FIR Filter using CMOS 250nm Technology"

Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

In

ELECTRONICS AND COMMUNICATION ENGINEERING

by

Ms. ANANYA K	**4JK21EC004**
Ms. ASHITHA B Y	**4JK21EC006**
Mr. NISHANTH GOWDA C J	**4JK21EC035**
Ms. SUSHMITHA	**4JK21EC058**

Under the Guidance of

Mrs. PRATHEKSHA RAI N

Assistant Professor

Dept. of E&C Engineering

AJIET

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

NH-66, Kottara Chowki, Mangaluru-575006, Karnataka, INDIA

A Unit of Laxmi Memorial Education Trust ®

(Approved by AICTE, New Delhi, Affiliated to Visveswaraya Technological University, Belagavi)

Accredited by NBA (BE: CV, CSE, ECE, ISE, ME)

2023-2024

A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

NH-66, Kottara Chowki, Mangaluru-575006, Karnataka, INDIA

A Unit of Laxmi Memorial Education Trust ®

(Approved by AICTE, New Delhi, Affiliated to Visveswaraya Technological University, Belagavi)

Accredited by NBA (BE: CV, CSE, ECE, ISE, ME)

2023-2024

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AJIET

CERTIFICATE

Certified that the mini project work entitled "**The Design and Implementation of Optimized Transistor Level FIR Filter using CMOS 250nm Technology**" carried out by **Ms. ANANYA K (4JK21EC004), Ms. ASHITHA B Y(4JK21EC006), Mr. NISHANTH GOWDA C J (4JK21EC035), Ms. SUSHMITHA (4JK21EC058)**, the bonafide students of **A J Institute of Engineering and Technology** in partial fulfillment 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.

The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
Mrs. Pratheksha Rai N	**Dr. Kiran Kumar V G**	**Dr. Shantharama Rai C**
	H.O.D. - Electronics & Communication Engineering A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY Mangaluru - 575 006, D.K., Karnataka	Principal A.J. Institute of Engineering & Technology Mangaluru - 575 006

Viva :

Name of the Examiners	**Signature with Date**
1. Dr. Kiran Kumar VG	05/08/24
2. Thrapti Shetty	Thrapti 05/08/24