



SAVEETHA SCHOOL OF ENGINEERING
SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES
CHENNAI-602105



**A CAPSTONE PROJECT REPORT
On**

<<<<TITLE>>>

*Submitted in the partial fulfilment for the award of the degree
of*

BACHELOR OF ENGINEERING

IN

**ELECTRONICS AND COMMUNICATION
ENGINEERING**

Submitted by

Name (Reg. No)
Name (Reg. No)

**COURSE: EEA0117 – BASIC ELECTRICAL AND ELECTRONICS
ENGINEERING FOR HOME AUTOMATION**

Under the Supervision of

Dr. Valantina Stephen, Dr. R. Sivakumar

**SUBMITTED ON
29-01-2026**



SIMATS ENGINEERING
SAVEETHA INSTITUTE OF MEDICAL
AND TECHNICAL SCIENCES
CHENNAI-602105



DECLARATION

We **Student name(s), (Reg. No)** student of '**Bachelor of Engineering in Electronics and Communication Engineering**', SIMATS, Saveetha University, Chennai, hereby we declare that the work presented in this Capstone Project Work entitled **Project title** is the outcome of our Bonafide work and is correct to the best of our knowledge and this work has been undertaken taking care of Engineering Ethics.

Student name (Reg. No)

Student name (Reg. No)

Date:29-01-2026

Place: SSE



SIMATS ENGINEERING
SAVEETHA INSTITUTE OF MEDICAL
AND TECHNICAL SCIENCES
CHENNAI-602105



BONAFIDE CERTIFICATE

Certified that this capstone project report **<<< Title >>>** is the Bonafide work of **Name (Reg no)** who carried out the capstone project work under our supervision for the course EEA0117 – Basic Electrical and Electronics Engineering for Home Automation.

SIGNATURE

Dr. Valantina Stephen Dr. R. Sivakumar

(Course Faculty – 1) (Course Faculty – 2)

Submitted for the Project work Viva-Voce held on 31/01/2026.

INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

KEYWORDS

TABLE OF CONTENTS

S.NO	NAME	PAGE NO
1		
2		
3		
4		
5		
6		
7		
8		

LIST OF FIGURES & TABLES

S.NO	NAME	PAGE NO
1		
2		
3		

ACKNOWLEDGEMENTS

We grateful to the Chancellor of SIMATS Engineering, **Dr. N.M.Veeraiyan**, and Vice Chancellor **Dr. Ashwini Kumar** for motivating us to carry out research in the SIMATS Engineering and also for providing us with infrastructural facilities and many other resources needed for our research.

We sincerely thank the Director of Academics, **Dr. Deepak Nallasamy** for his visionary thoughts and support. We express our sincere thanks to **Dr. Ramya Mohan Deepak**, Director, and **Dr. B. Ramesh**, Principal, SIMATS Engineering for their kind words of support and encouragements.

With immense pleasure and a deep sense of gratitude, we wish to express our sincere thanks to our supervisors **Dr. Valantina Stephen**, Assistant Professor, Department of Electrical and Electronics Engineering and **Dr. R. Sivakumar**, Professor, Department of Electronics and Communication Engineering, SIMATS Engineering for their motivation and continuous encouragement, this work would not have been successfully completed.

We would like to thank our HOD, all staff members, members of research department who were always there at need of the hour and provided the facilities, which we required for the completion of the work.

We would like to express our deep appreciation to our parents, as well as our extended family, for their unwavering prayers and sacrifices throughout our journey. We would like to thank God for not letting us down at the time of crisis and guided us on right direction.