

CERTIFICATE

This is to certify that this project report entitled “**Transmission Loss and Cost Analysis in Practical Indian Power System Network**” by

1602-21-734-033

A.Rohaunn Goud

1602-21-734-048

B.Surya Prakash

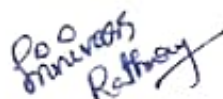
1602-21-734-056

Zoya

1602-21-734-310

D.Aishwarya

Submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering(A), Hyderabad, during the academic year 2024-25, is a Bonafide record of work carried out under my guidance and supervision.



Signature of the Guide

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Signature of Head of the Department

Dr. M. Chakravarthy

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CERTIFICATE

This is to certify that this project report entitled "Machine Learning-Based Classification of Power System Faults Using Transient Stability Assessment Parameters" by

1602-21-734-007

Uppala Akshitha

1602-21-734-014

Sandi Chathurya Raj

1602-21-734-032

Dakuri Rathish

1602-21-734-036

Sai Sumedh Garimella

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Signature of Head of Department, EEE



Dr. G. Sandhya Rani



Dr. M. Chakravarthy

Assistant Professor, Department of EEE

Professor, Department of EEE

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Vasavi College of Engineering(A), Hyderabad



VASAVI COLLEGE OF ENGINEERING(A)

Ibrahim Bagh, Hyderabad -500031

CERTIFICATE

This is to certify that the project report entitled "SVM BASED SPEED CONTROL FOR THREE PHASE INDUCTION MOTOR USING F28069 DIGITAL SIGNAL CONTROLLER" by Mohammed Mujeeb (1602-21-734-025), Arutla Santhosh Reddy (1602-21-734-041), Peddanarigalla Suman (1602-21-734-046), Mohammed Abuzar (1602-21-734-301) Submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in electrical and electronics in Vasavi college of engineering (Autonomous), Hyderabad, during the academic year 2024-2025 is a Bonafide record work carried out under my guidance and supervision.

Project Guide

DR. M SREENIVASULU

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Head of the Department

DR. M CHAKRAVARTHY

Professor, Dept of EEE,

Vasavi College of Engineering

CERTIFICATE

This is to certify that this project report entitled "**Design and Analysis of a Non-Isolated DC-DC Converter With a High-Voltage Conversion Ratio**" by

1602-21-734-050

B Uday kumar reddy

1602-21-734-304

Yamjala Suresh

1602-21-734-307

Mohammed Abdullah

1602-21-734-312

Vemula Vinay

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Hyderabad

**DEPATRTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING
VASAVI COLLEGE OF ENGINEERING
(Autonomous)**



CERTIFICATE

This is to certify that this project report entitled “ELECTRIC VEHICLE TO VEHICLE POWER TRASFER” by

1602-21-734-011

1602-21-734-016

1602-21-734-026

1602-21-734-027

K BHARGAV RAM

G VINESH

P RAKESH ROSHAN

N PAVAN KUMAR

Submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering, Hyderabad, during the academic year 2014–2015. This is a Bonafide record of the work carried out under my guidance and supervision.

Signature of the guide

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Signature of HOD

Dr. M. CHAKRAVARTH

Professor and HOD, Department of EEE
Vasavi College of Engineering(A),Hyderabad

CERTIFICATE

This is to certify that this project report entitled "**Two Input Buck Derived Soft-Switched Full Bridge LED Driver with Reduced Voltage Stress**" by **A. Anand (1602-21-734-008), M. Bhargav (1602-21-734-010), A. Shiva Kumar (1602-21-734-043), I. Sumith Chandan (1602-21-734-047)**, submitted in partial fulfilment of the requirements for the award of the degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering (Autonomous) Hyderabad, during the academic year 2024-25, is a Bonafide record work carried out under my guidance and supervision.

 25-04-2025

Signature of Project Guide
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Assistant Professor, Dept. of EEE
Vasavi College of Engineering, Hyd.



Signature of Head of the Department
Dr. M. Chakravarthy
Professor & HoD, Dept. of EEE
Vasavi College of Engineering, Hyd.

CERTIFICATE

This is to certify that this project report entitled "**ANALYSIS OF DYNAMIC PERFORMANCE OF POWER SYSTEMS INTEGRATED WITH INVERTER BASED RESOURCES**" by **T. Bharadwaj (1602-21-734-009), Priyanshu Singh (1602-21-734-030), P. Pranadeep (1602-21-734-309), A. Nalin Kumar (1602-21-734-311)**, submitted in partial fulfilment of the requirements for the award of the degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering (Autonomous) Hyderabad, during the academic year 2024-25, is a Bonafide record work carried out under my guidance and supervision.



Project Guide

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Head of the Department

Dr. M. Chakravarthy

Professor & HoD, Dept. of EEE
Vasavi College of Engineering, Hyd.

CERTIFICATE

This is to certify that this project report entitled "Process Automation in a Factory" by

1602-21-734-038

Sai Vikram Bukkaraju

1602-21734-039

Sanjana Kammari

1602-21-734-040

Madastha Santhosh Yadav

Submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2024-25, is a bonafide record of work carried out under my guidance and supervision.



Signature of Guide

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Signature of Head of the Department

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CERTIFICATE

This is to certify that this project report entitled "Process Automation in a Factory" by

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Sai Vikram Bukkaraju

1602-21734-039

Sanjana Kammari

1602-21-734-040

Madastha Santhosh Yadav

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Signature of Head of the Department

Dr. M Chakravarthy

Professor, EEE Dept

Vasavi Colleg Engineering (A), Hyderabad

CERTIFICATE

This is to certify that this project report entitled "**Simulation and analysis of 3-Ph, two-level VSI using SVPWM, SPWM and THIPWM**" by

1602-21-734-006

K Akshitha Reddy

1602-21-734-024

Mohammed Aarhhan Shoeib

1602-21-734-031

Vasanth Raj Ventrapragada

submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2014-15, is a bonafide record of work carried out under my guidance and supervision.



Signature of the Guide

Mr. Neerati Uday Kumar

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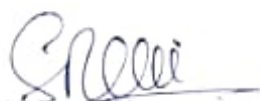
Dr. M. Chakravarthy

Professor, Department of EEE

Vasavi College of Engineering(A), Hyderabad

CERTIFICATE

This is to certify that this project report entitled "**POWER SUPPLY COMPATIBILITY TEST RIG FOR AIRBORNE APPLICATIONS**" by **Abhishek Addanki (1602-21-734-001)**, **S. Abhishek Reddy (1602-21-734-002)**, **N. V. N. Aditya (1602-21-734-003)**, submitted in partial fulfilment of the requirements for the award of the degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering (Autonomous) Hyderabad, during the academic year 2024-25, is a Bonafide record work carried out under my guidance and supervision.



Project Guide

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Dr. M. Chakravarthy

Professor & HoD, Dept. of EEE
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CERTIFICATE

This is to certify that this project report titled "DESIGN AND SIMULATION OF 1KW BATTERY TO GRID CONNECTED INVERTER" by *KOTHA HARSHA VARDHAN 1602-21-734-018*, *SIRIGIRI KAVYA 1602-21-734-021*, *PREETHI GAIKWAD 1602-21-734-029* submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2024-25, is a bonafide record of work carried out under my guidance and supervision.



Project Guide

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Hyderabad

CERTIFICATE

This is to certify that this project report entitled "**V2G (VEHICLE TO GRID) & G2V (GRID TO VEHICLE) CHARGERS USING BI-DIRECTIONAL CONVERTERS**" is submitted by

1602-21-734-004

Jammula Akash Vardhan

1602-21-734-019

Gurralla Harsha Vardhan Reddy

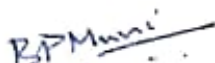
1602-21-734-034

A.S.S.R.Krishna Varma

1602-21-734-055

Ramagiri Yashaswini

Submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2024-25, is a bona fide record of work carried out under my guidance and supervision.



Signature of the Guide

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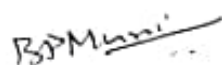
Dr. M. Chakravarthy

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Hyderabad

CERTIFICATE

This is to certify that this project report entitled "SINE-WAVE PWM CONTROL OF 3-PHASE INDUCTION MOTOR USING BASYS-3 FPGA BOARD" by C AKSHITH GUPTA (1602-21-734-005), M NALIN SATHWIK. (1602-21-734-042), K ADITHYA ARAVIND (1602-21-734-306), P PADMA (1602-20-734-029), submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering (Autonomous), Hyderabad, during the academic year 2024-25, is a bonafide record of work carried out under my guidance and supervision.



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Professor & Head
DEPT. OF E. E. E.

CERTIFICATE

This is to certify that this project report entitled “MULTIOUTPUT HALF - BRIDGE BASED SERIES RESONANT CONVERTER FOR LED LIGHTNING APPLICATIONS” by Chandana Boda (1602-21-734-013), Darla Gifty Hadasha (1602-21-734-017), Venu Goud Nizampet (1602-21-734-053), Hepsiba Perlín Allu (1602-21-734-305) submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2024-25, is a bonafide record of work carried out under my guidance and supervision.

 /25/04/2025

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CERTIFICATE

This is to certify that this project report entitled "**Transmission Line Faults Detection, Classification and Location using Artificial Neural Network**" *by*

1602-21-734-015	Geethika Palla
1602-21-734-020	Kalyan Chary Kammari
1602-21-734-022	Keerthana Ainapur
1602-21-734-057	Vaishnavi Zarkar

Submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2024-25, is a bonafide record of work carried out under my guidance and supervision.



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CERTIFICATE

This is to certify that this project report entitled "DESIGN OF PID CONTROLLER FOR SPEED CONTROL OF A BLDC HUB MOTOR" by R. SAI CHANDANA (1602-21-0734-035), K.TEJASWINI (1602-21-734-049) , CH.VANISREE (1602-21-734-052) , N.SRAVANI(1602-21-734-303) submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering , Hyderabad. during the academic year 2024-25, is a bonafide record of work carried out under my guidance and supervision



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Hyderabad

CERTIFICATE

This is to certify that this project report entitled "**SIMULATION OF WIRELESS POWER TRANSFER SYSTEM**" by **MANCHA MANASA (1602-21-734-023)**, **D NIKITHA (1602-21-734-037)**, **D SRAVYA (1602-21-734-045)** submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2024-25, is a bonafide record of work carried out under my guidance and supervision.



Project Guide

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Vasavi College of Engineering,

Hyderabad

CERTIFICATE

This is to certify that the project report entitled "MULTI OBJECTIVE DG DEPLOYMENT USING SOFT COMPUTING TECHNIQUES" by T. Vinusha (1602-21-734-054), S. Manasa (1602-21-734-302), N. Vamshi Krishna (1602-21-734-308), P. Sindhu (1602-21-734-313) submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering(Autonomous), Hyderabad, during the academic year 2024-25, is a bonafide record of work carried out under my guidance and supervision.



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