

MUFFAKHAM JAH COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF ELECTRICAL ENGINEERING

PROJECT ALLOTMENT (2020 -2021)

S.NO	ROLL NO's under the batch	Gulde	Project title	sign
1	1604-17-734-018 1604-17-734-028 1604-17-734-034	Gulde:Dr. Md. Haseeb khan Co gulde: Mr. Arshad mohammed	smart energy monitoring of home appliances using IOT	Just
2	1604-17-734-305 1604-17-734-308 1604-17-734-310	Dr. J. Namratha Manohar	Automatic street light control by detecting vehicle movement	
3	1604-17-734-011 1604-17-734-013 1604-17-734-053	Mrs. Fabia Akbar	Direct torque control of BLDC motor using fuzzy logic in matlab/simulink	
4.	1604-17-734-001 1604-17-734-003 1604-17-734-005	Mrs. Ajaz fatima	Permanent magnet synchronous generator based wind energy conversion system	Dalie
5	1604-17-734-023 1604-17-734-032 1604-17-734-301	Mr. J.E Muralidhar	Anticollision mechanism in vehicles	1
6	1604-17-734-052 1604-17-734-054 1604-14-734-041	Mr.Md.Abdullah	Control of Reactive power flow with UPFC connected using different distance transmission line	M
7	1604-17-734-004 1604-17-734-044 1604-17-734-309	Mrs.Nausheen Bano	Control scheme for standalone wind energy conversion system	More
8	1604-17-734-008 1604-17-734-012 1604-17-734-037	Mrs.Mahmooda Mubeen	Energy Management and Control of Single-Stage Grid Connected Solar PV and BES System	Alul
9	1604-17-734-009 1604-17-734-306 1604-17-734-311	Mr, K, Md.Rafi	Design of PLC & SCADA based control panel for continuous monitoring of 3 phase Induction Motor	
10	1604-17-734-024 1604-17-734-035 1604-17-734-302	Mr. Ravi Kiran	Simulation of Bridgeless SEPIC converter with modified switching pulse	dow
11	1604-17-734-031 1604-17-734-027 1604-17-734-029	Mr. Md. Imran	Simulation and design of a single phase SPWM inverter using an Arduino board.	Smite

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Muffakham Jah College Of Engineering & Technology, Banjara Hills, Road No.3, HYDERABAD - 500 034, A.P.



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12	1604-17-734-007 1604-17-734-015 1604-17-734-021	Mr. Praveen Kumar Joshi	Temperature based fan controller	4
13	1604-17-734-033 1604-17-734-047 1604-17-734-051	Dr Md Sajid	Utilization of solar power for automated automotive and locomotive charging	1
14	1604-17-734-040 1604-17-734-043 1604-17-734-050	Mr. Jaffer Mohammed	Dual input super boost DC- DC converter for solar powered electric vehicle	THE
15	1604-17-734-022 1604-17-734-304 1604-17-734-312	Mrs. Bibi Manyam	IOT based smart grid system with feeder protection using plc and scada	
16	1504-16-734-061 1604-15-734-015	Mr. Arshad mohammed	Design and development of unmanned Aerial vehicle for Civil applications	ne
17	1604-16-734-038 1604-15-734-042 1604-16-734-303	Mr.Md.Abdullah	Mitigation of voltage sag, swell and THD using Dynamic Voltage Restorer with Photovoltaic System	AY

Project Coordinator Nausheen Bano

Project Members Dr.Md.Haseeb Khan Dr. Md. Sajid Mrs Nausheen Bano HOD, EED

PRINCIPAL

Muffakham Jah College Of Engineering & Technology, Banjara Hills, Road No.3, HYDERABAD - 500 034. A.P.

Utilization of Solar Power for Automated Automotive and Locomotive Charging

Project Report Submitted in partial fulfillment of the requirement for the award of degree of

BACHELOR OF ENGINEERING IN

ELECTRICAL AND ELECTRONICS ENGINEERING

By

MOHAMMED AQUEEBUDDIN-160417734033 MOHAMMED SAMIUDDIN-160417734051 MOHAMMED SAMEER-160417734047

> Under the Guidance of DR.MOHAMMED SAJID Assistant Professor (EED)

Electrical Engineering Department



Muffakham Jah College of Engineering & Technology (Affilated to Osmania University)

2020-2021

PRINCIPAL
Muffakham Jah College Of
Engineering & Technology,
Banjara Hills, Road No.3,

HYDERABAD - 500 034. A.P



(Est. by Sultan-Ul-Uloom Education Society in 1980) (Affiliated to Osmania University, Hyderabad) Approved by the AICTE & Accredited by NBA

CERTIFICATE

This is to certify that the dissertation titled "Utilization of Solar Power For Automated Automotive And Locomotive Charging" being submitted by Mohammed Aqueeb Uddin(1604-17-734-033), Mohammed Sameer(1604-17-734-047) and Mohammed Samiuddin(1604-17-734-051) to Muffakham Jah college of Engineering and Technology, in partial fulfilment for the award of the degree of Bachelor of Engineering in Electrical and Electronics Engineering is a bonafide record of work carried out by them under our guidance and supervision during the year 2020-2021. The results embodied in this report have not been submitted to any University or Institute for the award of any Degree or Diploma.

Dr.Mohammed Sajid ASSOCiate rofessor EED, MJCET, Hyderabad PROJECT GUIDE Dr. Mohd. Haseeb Khan,

Professor and

Head of Dept EED, MICET,

Hyderabad

Professor & Head

Electrical Engineering Department, M.J. College of Engg. & Tech., Rd. No. 3, Banjara Hills, Hyd.-155.

INTERNAL EXAMINER

EXTERNAL EXAMINER

8-2-249, Mount Pleasant, Road No.3, Banjara Hills, Hyderabad - 500 034

Phone: 040-23350523, 23352084, Fax: 040-2335 3428

Website: www.mjcollege.ac.in, e-mail: principal@mjcollege.ac.in

PRINCIPAL

Muffakham Jah College Of Engineering & Technology, Banjara Hills, Road No.3,

HYDERABAD - 500 034. A.P

SIMULATION AND DESIGN OF A SINGLE PHASE SPWM INVERTER USING AN ARDUINO BOARD.

A Dissertation submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF ENGINEERING

In

ELECTRICAL AND ELECTRONICS ENGINEERING

By SYED SAMEERUDDIN (1664-17-734-027) MOHAMMED ZAKI HUSSAIN (1664-17-734-029) MD MASEEH UULAH KHAN (1664-17-734-031)

> Under the Guidance of Mr. Md. Imran (Aut. Prof.)



Department of Electrical Engineering
Muffakham Jah College of Engineering & Technology
(Affiliated to Osmania University)
2020-2021

PRINCIPAL

Muffakham Jah College Of
Engineering & Technology,
Banjara Hills, Road No.3.

HYDERABAD - 500 034, A.P



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This is to certify that the dissertation titled 'Simulation and Design Of A Single Phase SPWM Inverter Using An Arduino Board' submitted by Syed Sameeruddin (1604-17-734-027), Mohammed Zaki Hussain (1604-17-734-029), Mohammed Maseeh Ullah Khan (1604-17-734-031) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Engineering, in Electrical and Electronics Engineering is a bonafide record of work carried out by them under our guidance and supervision during the year 2020-2021. The results embodied in this report have not been submitted to any University or Institute for the award of any Degree or Diploma.

Mr. Md. Imr

Mr. Md. Imran Assistant Professor EED, MJCET, Hyderabad Project Guide **Dr. Mohd. Haseeb Khan** Professor and Head EED, MJCET, Hyderabad

Professor & Head

Electrical Engineering Department, M.J. College of Engg. & Tech., Pd. No. 3, Banjara Hills, Hyd.-155.

INTERNAL EXAMINER

EXTERNAL EXAMINER

8-2-249, Mount Pleasant, Road No.3, Banjara Hills, Hyderabad – 500 034 Phone: 040-23350523,23352084, Fax: 040-2335 3428

Website: www.mjcollege.ac.in, e-mail: principal@mjcollege.ac.in PRINCIPAL

Muffakham Jah College Of

Muffakhem Jah College Of Engineering & Technology, Banjara Hills, Road No.3, HYDERABAD - 500 034, AP

AUTOMATIC STREET LIGHT CONTROL BY DETECTING VEHICLE MOVEMENT

A Dissertation submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

BY

SHAIK SHOAIB
TALHA ATHAR
MD SAMEER

1604-17-734-305

1604-17-734-308

1604-17-734-310

Under the guidance of

Dr. J. NAMRATHA MANOHAR

Professor EED Department, MJCET



Department of Electrical Engineering

Muffakham Jah College of Engineering and Technology

Banjara Hills, Hyderabad-500 034 (Affiliated to Osmania University)

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Muffakham Jah College Of Engineering & Technology, Banjara Hills, Road No.3, HYDERABAD - 500 034. A.P.

2021





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CERTIFICATE

This is to certify that the dissertation titled 'Automatic Street Light Control By Detecting Vehicle Movement' submitted by Shaik Shoaib (Roll No: 1604-17-734-305), Talha Athar (Roll No: 1604-17-734-308), MD Sameer (Roll No: 1604-17-734-310) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Engineering, in Electrical and Electronics Engineering is a bonafide record of work carried out by them under our guidance and supervision during the year 2020-2021. The results embodied in this report have not been submitted to any University or Institute for the award of any Degree.

Dr. J. Namratha Manohar Project Guide, Professor EED, MJCET, Hyderabad

Dr. Mohd. Haseeb Khan,
Professor and
Head of Dept. EED,
MJCET, Hyderabad
Professor & Head

Electrical Engineering Department,
M.J. College of Engg. & Tech.,
Rd. No. 3, Banjars Hills, Hyd.-155.

INTERNAL EXAMINER

EXTERNAL EXAMINER

8-2-249, Mount Pleasant, Road No.3, Banjara Hills, Hyderabad - 500 034

Phone: 040-23350523, 23352084, Fax: 040-2335 3428

Website: www.mjcollege.ac.in, e-mail: principal@mjcollege.ac.in

Engineering & Technology,

Baniara Hills Flood No. 2

PRINCIPAL

Muffakham Jah College Of Engineering & Technology, Banjara Hills, Road No.3, HYDERABAD - 500 034, A.P.

DESIGN OF PLC AND SCADA BASED CONTROL PANEL FOR CONTINUOUS MONITORING OF 3 PHASE INDUCTION MOTOR

A Dissertation submitted in partial fulfilment of the

requirements for the award of the Degree of

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

BY

SHAIK MUNAWWAR AHMED 1604-17-734-009
SYED SAMIUDDIN AHMED 1604-17-734-306
MEER INTHIYAZ ALI 1604-17-734-311

Under the guidance of Mr. K. MAHAMMAD RAFI Assistant Professor, EED, MJCET



Department of Electrical Engineering

Muffakham Jah College of Engineering and Technology

Banjara Hills, Hyderabad-500 034
(Affiliated to Osmania
University)
2020-2021

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Muffakham Jah College Of
Engineering & Technology,
Banjara Hills, Road No.3,
HYDERABAD - 500 034. A.P



(Est. by Sultan-Ul-Uloom Education Society in 1980) (Affiliated to Osmania University, Hyderabad) Approved by the AICTE & Accredited by NBA

CERTIFICATE

This is to certify that the dissertation titled 'Design of PLC and SCADA based control panel for continuous monitoring of 3 phase Induction Motor' submitted by Shaik Munawwar Ahmed (Roll No: 1604-17-734-009), Syed SamiUddin Ahmed (Roll No: 1604-17-734-306), Meer Inthiyaz Ali (Roll No: 1604-17-734-311) in partial fulfilment of the requirements for the award of the Degree of Bachelor of Engineering, in Electrical and Electronics Engineering is a bonafide record of work carried out by them under our guidance and supervision during the year 2020-2021. The results embodied in this report have not been submitted to any University or Institute for the award of any Degree or Diploma.

Mr. K. Mahammad Rafi Assistant Professor EED, MJCET, Hyderabad Project Guide

Dr. Mohd. Haseeb Khan Professor and Head EED, MJCET, Hyderabad

Professor & Head Electrical Engineering Department, M.J. College of Engg. & Tech.,

Pd No. 3, Banjara Hills, Hyd.-155.

INTERNAL EXAMINER

EXTERNAL EXAMINER

8-2-249, Mount Pleasant, Road No.3, Banjara Hills,

Hyderabad - 500 034 Phone: 040-23350523,

23352084, Fax: 040-2335 3428

Wahrite www.micollege.ac.in, e-mail:

PRINCIPAL

Muffakham Jah College Of Engineering & Technology, Banjara Hills, Road No.3, HYDERABAD - 500 034. A.P.

MITIGATION OF VOLTAGE SAG, SWELL AND THE USING DYNAMIC VOLTAGE RESTORER WITH PHOTOVOLTAIC SYSTEM

A Dissertation submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

BY

HASEEB HUSSAIN

1604-16-734-038

MOHAMMED

MOHAMMED ABDUR

1604-15-734-042

RAHEEM

ADIL AHMED

1604-16-734-303

Under the guidance of

Mr. Md.ABDULLAH

Assistant Professor, EED, MJCET



Department of Electrical Engineering

Muffakham Jah College of Engineering and Technology

Banjara Hills, Hyderabad-500 034

(Affiliated to Osmania University)

PRINCIPAL

Muffakham Jah College Of Engineering & Technology, Banjara Hills, Road No.3,

HYDERABAD - 500 034. A.P



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Approved by the AUCH & Aucrestiad by NSA

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This is to certify that the dissertation titled "Mitigation of voltage sag, swell and THD using Dynamic Voltage Restorer with Photovoltaic System" submitted by HASEEB HUSSAIN MOHAMMED (Roll No: 1604-16-734-038), MOHAMMED ABDUR RAHEEM (Roll No: 1604-15-734-042), ADIL AHMED (Roll No: 1604-16-734-303) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Engineering, in Electrical and Electronics Engineering is a bonafide record of work carried out by them under our guidance and supervision during the year 2020-2021. The results embodied in this report have not been submitted to any University or Institute for the award of any Degree or Diploma.

Mr. Met Abdullah Assistant Professor EED MICET, Hyderabad

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MaCTT, Hyderabad

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INTERNAL EXAMINER

EXTERNAL EXAMINER

5-2-243, Mount Pleasant, Road No.1, Banjara Hills, Hyderabad - 500 034 Phone: 545-23350521, 23352084, Fac: 546-2335 3428

Website was particularly and

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Muffakham Jah College Of
Engineering & Technology,
Banjara Hills, Road No.3,
HYDERABAD - 500 034, A.P