

EV CHARGING STATION WITH PV AND BATTERY BASED ON A MULTI PORT CONVERTER

A PROJECT REPORT

***Submitted in partial fulfillment of the requirements for the
award of the degree of***

BACHELOR OF TECHNOLOGY

In

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

E. DILIP DURGA KUMAR

20555A0210

V. CHENNA KESAVA REDDY

19551A0238

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Under the Supervision of

Dr. B. KAVYA SANTHOSHI

M.E, M.B.A, Ph.D

Assistant Professor



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)

Chaitanya Knowledge City, NH-16, Rajamahendravaram, A.P.

Jawaharlal Nehru Technological University, Kakinada, A.P., India

APRIL 2023

GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous)

CHAITANYA KNOWLEDGE CITY, NH-16, RAJAMAHENDRAVARAM, 533296, AP

BONAFIDE CERTIFICATE

Certified that this project report "EV Charging Station with PV and Battery based on a Multiport Converter" is the bonafide work of "E. Dilip Durga Kumar (20555A0210), V.Chenna Kesava Reddy (19551A0238), Amlesh Kumar (19551A0219)", who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfillment of the requirements of the Degree of Bachelor of Technology in Electrical and Electronics Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology(A), Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.

Signature of the Head of the Department

Dr. D. RAVI KISHORE

HEAD OF THE DEPARTMENT

Department of Electrical & Electronics Engg
Head of the Department
GIET(A), RAJAMAHENDRAVARAM
Date: 04/04/2023

Signature of the Supervisor

DR. B. KAVYA SANTHOSHI

SUPERVISOR

Department of EEE

External Viva voce conducted on 04/04/2023

Internal Examiner

External Examiner

**A NOVEL DEMAND RESPONSE ALGORITHM FOR GRID-
CONNECTED MICROGRIDS THAT MAXIMISES RENEWABLE
ENERGY UTILISATION**

A PROJECT REPORT

*Submitted in partial fulfillment of the requirements for
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In

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Submitted by

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P.SASIKUMAR
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BONAFIDE CERTIFICATE

Certified that this project report "A NOVEL DEMAND RESPONSE ALGORITHM FOR GRID- CONNECTED MICROGRIDS THAT MAXIMISES RENEWABLE ENERGY UTILISATION" is the bonafide work of "N. SAIKUMAR (20555A0234) , P.SASIKUMAR (20555A0268), P.V.V.AKSHITSAI(20555A0206)", who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfillment of the requirements of the Degree of Bachelor of Technology in Electrical and Electronics Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology(A), Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.


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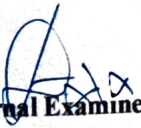
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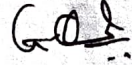

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Mr. A. SUDHEER KUMAR
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**ANN BASED BRIDGELESS LANDSMAN
CONVERTER DESIGN FOR ELECTRIC VEHICLE
POWER FACTOR CORRECTION**

A PROJECT REPORT

***Submitted in partial fulfillment of the requirements for
the award of the degree of***

BACHELOR OF TECHNOLOGY

In

ELECTRICAL AND ELECTRONICS ENGINEERING

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RANGALA MANIKANTA SWAMY 20555A0254

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Certified that this project report “ANN BASED BRIDGELESS LANDSMAN CONVERTER DESIGN FOR ELECTRIC VEHICLE POWER FACTOR CORRECTION” is the bonafide work of “Rangala Manikanta Swamy (20555A0254), T. Sai Saran Jyothi (19551A0234) and Bochu Varun (20555A0251)”, who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfillment of the requirements of the Degree of Bachelor of Technology in Electrical and Electronics Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology (A), Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.

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Developing an RBFNN Maximum Power Point Tracking Algorithm for a Three-Phase Landsman PV-Grid Connection

A PROJECT REPORT

***Submitted in partial fulfillment of the requirements for
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BACHELOR OF TECHNOLOGY

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ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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Certified that this project report “DEVELOPING AN RBFNN MAXIMUM POWER POINT TRACKING ALGORITHM FOR A THREE PHASE LANDSMAN PV-GRID CONNECTION” is the bonafide work of “S.S. RANGA PRASAD (20555A0233), M.L.C. SEKHAR (20555A0263) and M. RAHUL (20555A0237)”, who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfillment of the requirements of the Degree of Bachelor of Technology in Electrical and Electronics Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology(A), Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.



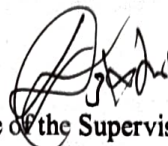
Signature of the Head of the Department

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Date: 04/04/2023



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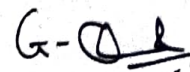
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Internal Examiner



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ANN-Based Filters To Improve The Power Quality of Grid Connected Solar Photovoltaic System

A PROJECT REPORT

***Submitted in partial fulfilment of the requirements for the
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BACHELOR OF TECHNOLOGY

In

ELECTRICAL AND ELECTRONICS ENGINEERING

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APRIL 2023

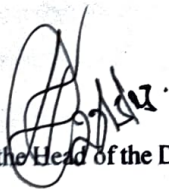
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Certified that this project report **ANN-Based Filters To Improve The Power Quality of Grid Connected Solar Photovoltaic System** is the bonafide work of "**J.Sai Karthik (19551A0214), D.S.P.D.N.V.Murali Krishna(20555A0211) and M.Veera Venkatesh (20555A0219)**", who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfilment of the requirements of the Degree of Bachelor of Technology in Electrical and Electronics Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology, Rajamahendravaram(A), A.P, India for the award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.



Signature of the Head of the Department

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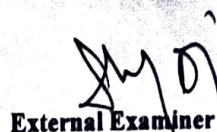
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External Examiner