

### ***Personal Information***

Name	B.Sujatha
Years of Experience	Teaching : 20 Years Research : 4 Years Industry : NIL
Email Id	<a href="mailto:sujatha.b@bvrithyderabad.edu.in">sujatha.b@bvrithyderabad.edu.in</a>
CN ID	SR1213
Area of Specialization	Power Electronics



### ***Educational Qualifications***

Doctoral Degree	Ph.D Pursuing	JNTUA Ananthapuramu
PG Degree	M.Tech.	Power Electronics, JNTUA Anantapuramu
UG Degree	B.Tech.	Electrical & Electronics Engineering, JNTU Hyderabad

### ***Patent Published:***

1. Managing EVs in the Smart Grid Using AI and secured IoT Technology. Application No. 202141053795.
2. A METHOD AND SYSTEM OF IMPROVING CYBER SECURITY BY IMPROVED PREDICTION POTENTIAL OF MACHINE LEARNING MODELS. Application No. 202441020146.
3. IOT-BASED REAL TIME AQI MONITORING, Application No. 202441040003.
4. IOT BASED SOLAR POWERED AGRICULTURE ROBOT, Application No. 380905-001.
5. OPTIMIZING AC DRIVE OPERATIONS WITH SINUSOIDAL PWM: A COMPARATIVE STUDY, Application No. 202441053641.
6. ENHANCED FIRE DETECTION AND ALARMING SYSTEM WITH AI-BASED FALSE ALARM DETECTION, Application No. 202441058758.
7. An IoT-based Intelligent Landslide Detection and Monitoring System, Application No. 202441063168.
8. Smart Seismic Sensing: Designing an Arduino based Earthquake Detector, Application No. 202441073741.
9. ENHANCING HOME COMFORT AND SECURITY WITH IOT-DRIVEN AUTOMATION, Application No. 202441072988.
10. Innovative Smart Insole for Accurate Pressure Detection, Application No. 202441079547.
11. Advanced Patient Monitoring using IoT: A Modern Healthcare Solution, Application No. 202441081228.
12. Machine Learning Based DC-DC Converter for Photovoltaic (PV) Modules, Application No. 202441084080.
13. Smart Speedometer with LED display using Arduino, Application No. 202441096957.
14. Innovative Solution for Water Overflow: An Impulse Regulator System, Application No. 202441099770.
15. Arduino-Driven Comfort Assessment System for Indoor Environments, Application No. 202441100848.

## *Papers Published*

### *International Journal Publications*

1. Ms. Sujatha Banka and Dr. D. V. Ashok Kumar **“Effective Energy Management System in Microgrid Employing Model Predictive Controller”** in International Journal of Electrical and Electronics Research (IJEER), Vol.12, No. 4, October 2024, ISSN: 2347 - 470X, <https://doi.org/10.37391/IJEER.120403>.
2. Dr.Chava Sunil Kumar, **Ms.Sujatha Banka**, Ms. Shaik Chandini, Ms.Jakkoju Vaishnavi, Ms.Gorla Himabindu, Ms.Gudibandi Meghana ,” **Control of a stand-alone variable speed wind turbine generator system”** in International Journal of Applied Power Engineering (IJAPE),Vol.13, No. 3, September 2024, ISSN: 2252-8792, DOI: 10.11591/ijape.v13.i3.pp727-736.
3. **Ms.Sujatha Banka**, Ms.Supriya Kacharla, Ms.Thatipelli Purnima, Ms.Alampur Thanvi, Ms.Likitha Shatdarsanam **“Patient Health Monitoring System Using IoI Technology”** in International Journal of Creative Research Thoughts, , Volume 11, Issue 10, Page No: c276-c282 ,October 2023.
4. **Ms.Sujatha Banka**, Mr.M.A.Nabi, **“Solar-Wind Hybrid Power Generation System”** in International Journal of Creative Research Thoughts, , Volume 11, Issue 10, Page No: c262-c270, October 2023.
5. Dr.P.Srinivas,Ms.Sujatha Banka,Dr.Salkuti Surender Reddy, **“Optimal Energy Management Scheme of Battery Supercapacitor-Based Bidirectional Converter for DC Microgrid Applications”** in MDPI Journal, Special Issue Intelligent Manufacturing and Informatization (Indexed E-SCI), July 2022.
6. **Ms.B.Sujatha**, Ms.A.Shivani,B.Sai Niharika,D.Ananya Sameera,N.Manisha **„Implementation of an Energy Management System for Microgrid using Particle Swarm Optimization Technique”**, International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.9, Issue 7, July 2021,Page No: f64-f70.
7. **Ms.B.Sujatha**,Ms.N.Aamani, Ms.P.Harshini and Ms.M.Vaishnavi, **“Energy Monitoring Using IoT Technology”** , International Journal of Creative Research Thoughts (IJCRT), ISSN (PRINT): 2320-2882, Vol.8, Issue-4, April 2020, Page No: 2388-2391 , April 2020.
8. **Ms.B.Sujatha**, Ms.P.Subhashitha, **“ACTIVITY BASED TEACHING IN ENGINEERING EDUCATION”**, in the International Education & Research Journal(IERJ), E-ISSN:2454-9916, Vol .5, Issue : 8, June 2019 , Page No: 56-57, IF: 5.564(SJIF).
9. **Ms.B.Sujatha**,Ms.J.SravanaKalyani,Ms.K.Priyanka,**”Optimization and Performance Evaluation of Single Axis Arduino Solar Tracker”**, in International Journal of Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol.6, Issue 4, Page No: 16-20, April 2018, ISSN:2321-8169,SJIF:5.837.
10. **Ms.B.Sujatha**,Ms.J.SravanaKalyani,Ms.K.Priyanka**„,Optimization and Performance Evaluation of Single Axis Arduino Solar Tracker”** , International Journal of Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol.6, Issue 4, Page No: 16-20, April 2018, ISSN:2321-8169,SJIF:5.837.
11. **Ms.B.Sujatha**,Ms.B.Rani,Ms.Saini.Ramya, **„Optimization and Performance Analysis of Single Axis Solar Tracker Using MATLAB/Simulink Software”**, International Journal of Novel Research and Development (IJNRD) , Vol.3, Issue 4, Page No: 77- 81, April 2018, ISSN: 2456-4184 ,IF:5.57

12. **Ms.B.Sujatha**, Ms.Ch.Renuka Devi, Ms.K.Baby Lakshmi, “**SIMSCAPE Model of Solar PV Cell with Partial Shading Effect**”, International Journal for Modern Trends in Science and Technology (IJMTST), Vol.3, Issue 8, Page No : 92-96, August 2017, ISSN:2455-3778,IF:3.1.
13. **Ms.B.Sujatha**, Ms.K.Bhavya, “**Simulation and Performance of AC Drives using SVPWM Technique**”, International Journal of Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol.5, Issue 7, Page No: 11-18, July 2017, ISSN:2321-8169, SJIF:5.837.
14. **Ms.B.Sujatha**, Ms.D.Sree Meghana, “**Simulation and Performance of Induction Motor Drive using SVPWM Technique**”, International Journal for Modern Trends in Science and Technology (IJMTST), Vol.3, Issue 7, Page No: 223-228 , July 2017, ISSN:2455-3778,IF:3.1.

### *International Conference Publications*

1. **Ms.Sujatha Banka** , Dr.Chava Sunil Kumar, Ms.L. Supriya, Ms. V. Priya and Ms.R. Shivani, “**Saline Level Intelligent Monitoring System utilizing GSM Module**,” in 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST), Vijayawada, India, 2024, pp. 1-4, doi: 10.1109/ICIGST60741.2024.10717507.
2. Ms.Bhavya Kanchanapalli , **Ms.Sujatha Banka**, Ms.Geetha Vani. Bacchu, Ms.Dharani. Nimmala, Ms.Aashritha. Ganji and Ms.Rasagnya.Begari, “**ESP32-Based Fan Speed Regulation System**”, in 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICIGST60741.2024.10717499.
3. Ms.Sujatha. Banka, Ms.Rizana Begum Syed, Ms.Amulya. Tumalla, Ms.Rohini. Chouhan, Ms.Harini. Raparathi and Ms.Rajitha Ashok Kota, “**Decoding Market Signals: Unveiling the Dynamics of Stock Sentiment Through Headlines Analysis**” , in 2024 2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS), Coimbatore, India, 2024, pp. 626-632, doi: 10.1109/ICSCSS60660.2024.10625202.
4. **Ms.Sujatha Banka**, Ms.Bhavya Kanchanapalli ,Ms.Shaik Nafeesa,Ms.D.Khyathi, Ms.D. Poojitha and Ms.Nalla.Akshitha, “**Securing Fintech: A Machine Learning Approach for Credit Card Fraud Detection**,” in 2024 International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS), Coimbatore, India, 2024, pp. 814-821, doi: 10.1109/ICC-ROBINS60238.2024.10533901.
5. Dr.Chava Sunil Kumar, **Ms.Sujatha Banka** ,Ms.A. Navya, Ms.V. Sai Priya, Ms. C. Nethra ,Ms. G. Srikanya, “**Enhancing Borewell Rescue with Automation**,” in 2024 International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS), Coimbatore, India, 2024, pp. 738-742, doi: 10.1109/ICC-ROBINS60238.2024.10533991.
6. **Ms.Sujatha Banka**, Ms.Bhavya Kanchanapalli, Ms. Vidyadhari Gadde, Ms.Sai Meghana Sudhamalla, Ms.Vanitha Anantha, Ms.Pavanika Uppalapati “**Smart Kitchen Monitoring System using IoT Technology**,” in 2024 IEEE International Conference on Automation and Computation (AUTOCOM), Dehradun, India, March 2024, pp. 303-307.
7. Dr.Chava Sunil Kumar, **Ms.Sujatha Banka**, Ms.J. Vaishnavi, Ms.S. Chandini, Ms.G. Himabindu Ms.G. Meghana, “**RFID Time and Attendance System based on IoT Technology**,” 2023 2nd IEEE International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, Feb 2023, pp. 293-296.
8. **Ms. Sujatha Banka**, Ms.Kokkula Shivani , Ms.G .Sushma , Ms.Mohammad Shalima Tarannum , Ms.Ashwini Balagani , Ms.Kyatam Keerthana , “**Web Application for Air Quality Index Monitoring System using ThingSpeak**” in Springer 3rd International Conference Soft Computing for Security Applications - ICSCS 2023 , April 2023, vol 1449. Springer Nature, Singapore.

9. **Ms.Sujatha Banka**,Dr.Punna Srinivas ,Ms.Gurusai Charani Ankisetty, Ms.Sravani Alluri, Ms.Manogna Boora, Ms.Vallabhadasu Raghama, “**LED Driver with an Efficient Interleaved Buck Converter**”, in Intelligent Manufacturing and Energy Sustainability: Proceedings of ICIMES 2022 (pp. 635-648),June 2023, Springer Nature Singapore.
10. **Ms.SujathaBanka**,Ms.K.Bhavya,Ms.Annam Bhuvaneshwari,Ms.Akhila Akula,Ms.Sripriya Thirukkavalluru, Ms.Swapna Jarpula “**A Novel Method for Fire Detection and Alarming Notification using IoT Technology**” **2nd IEEE International Conference on Electronics and Renewable Systems, ICEARS 2023, pp. 560–565, March 2023.**
11. **Ms.Banka.Sujatha** ,Ms.Kavya, G., Mr.Sudheer Kumar, Ms.M., Ruchitha, Ms.V., Pujitha, B., Ms. Jaya Pooja Sri, “**Web Application for Solar Data Monitoring Using IoT Technology**” ,in Proceedings of Fourth International Conference on Computer and Communication Technologies ,pp. 593-600. Springer, Singapore, March 2023.
12. Ms.Bhavya,K.,**Ms.Banka Sujatha**,Subhashitha, P. ,”**Power Quality Enhancement in Distribution System using Ultracapacitor Integrated Power Conditioner.**” in Proceedings of Fourth International Conference on Computer and Communication Technologies,pp.601-612).Springer Nature, Singapore.
13. Dr.Punna Srinivas, **Ms.Banka.Sujatha**,Ms. Kavya Swamy, Ms.K. Keerthi Krishna, Ms.P. Sreeja Sree, Ms.D.Tharuni. "**HESS-Based Bi-Directional DC-DC Converter with Adaptive Control Strategy.**" IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation(SeFeT),pp.1-4.August ,2022
14. **Ms.B.Sujatha**, Ms.K.Srinija, Ms.B.Soumya, Ms.J.Pavithra ,Ms.K.Sudha Srinidhi,,**Monitoring and Controlling of Solar Watered Pumping System using Arduinio-LabVIEW**” ,Vol:5, Issue-5, May 2020 ,Vidhyayana -An International Multidisciplinary Referred E-Journal (ISSN: 2454 – 8596).

### **Book Chapter :**

1. Ms.Bhavya Kanchanapalli, **Ms.Sujatha Banka** ,”**Power Quality Improvement in Distribution System**” by IntechOpen publishers ,Feb,2024.

### **FDP's /Workshops Attended**

1. Six day Online Faculty Development Program on “**Developing Intelligent IoT Systems: From Sensors to Servers**” ” organized by Department of Electrical and Electronics Engineering & Department of Information Technology,Vardhaman College of Engineering Hyderabad, Telangana from 22<sup>nd</sup> to 27<sup>th</sup> July 2024.
2. Six day Faculty Development Program on “**Assimilation of Indian Knowledge Systems with NEP-2020: Prospect and Retrospect**” organized by Department of Basic Sciences & Humanities and Internal Quality Assurance Cell (IQAC), BVRIT HYDERABAD College of Engineering for Women, Hyderabad, India from 30<sup>th</sup> July to 4<sup>th</sup> August 2024.
3. Six day AICTE Training And Learning (ATAL) Academy Faculty Development Program on "**Computational Fluid Dynamics Basics and Industrial Applications (CFDBAIA)**" organized by Department of Mechanical Engineering ,B V RAJU INSTITUTE OF TECHNOLOGY, Narsapur from 4<sup>th</sup> to 9<sup>th</sup> November 2024.
4. "**Smart Mobility: The Future of Autonomous Electric Vehicles**" organized by Department of Electrical & Electronics Engineering,BVRIT HYDERABAD College of Engineering for Women, Hyderabad **from 11<sup>th</sup> to 16<sup>th</sup> November 2024.**

5. Five day Online Faculty Development Program on **“Navigating the future with Green Energy Resources ,Smart Grid Technologies & Emission free Vehicle Infrastructure”** organized by Department of Electrical and Electronics Engineering, Vishnu Institute of Technology, Vishnupur, Bhimavaram, Andhra Pradesh from 22<sup>nd</sup> to 27<sup>th</sup> April 2024.
6. Five day workshop on **“CII - Training Program for BEE Energy Manager and Energy Auditor Exam”** organized by CII, Hyderabad from 19<sup>th</sup> to 23<sup>rd</sup> Feb 2024.
7. Twenty seven days Faculty Orientation Program (FOP) **“Ignite Entrepreneurship”** organized by the Directorate of Entrepreneurship Innovation and Start-Ups (DEIS), JNTUH in association with Wadhvani Foundation from 27<sup>th</sup> March 2024 to 23<sup>rd</sup> April 2024.
8. Five day Online Short term Training Program on **“Research Methodology”** organized by Jawaharlal Nehru Technological University, Hyderabad from 11<sup>th</sup> to 16<sup>th</sup> September 2023.
9. Ten Day Online Faculty Development Program on **“Hybrid Vehicles and Battery Management Systems”** organized by Department of Electrical and Electronics Engineering, Sri Vishnu Engineering College for Women, Bhimavaram and E & ICT, NIT Warangal from 7<sup>th</sup> to 16<sup>th</sup> March 2022.
10. Twelve Day Online Faculty Development Program on **“Design Aspects and IoT Applications in Electric Vehicles”** organized by Department of Electrical and Electronics Engineering, Vaagdevi College of Engineering, Warangal and E & ICT, NIT Warangal from 28<sup>th</sup> Feb to 9<sup>th</sup> March 2022.
11. Six Day Online Induction/Refresher Program on **“Integration of Green Energy Resources”** organized by Department of Electrical and Electronics Engineering, Vishnu Institute of Technology, Vishnupur, Bhimavaram, Andhra Pradesh from 1<sup>st</sup> to 7<sup>th</sup> Feb 2022.
12. Five Day Online Faculty Development Program on **“Publication and Research Ethics”** organized by AICTE-ATAL FDP at Department of Electrical Engineering Rajiv Gandhi Institute of Technology, Kottayam from 6<sup>th</sup> to 12<sup>th</sup> December 2021.
13. Five Day Online Faculty Development Program **“Developing Effective Research Skills”** Organized by AICTE ATAL at Library and Information Center, P.E.S. College of Engineering, Mandya from 9<sup>th</sup> to 13<sup>th</sup> August 2021.
14. Five day Online Short term Training Program on **“Modern Power System Optimization: Techniques, Tools, and Applications”** organized by Department of Electrical and Electronics Engineering, NIT, Trichy from 3<sup>rd</sup> May to 7<sup>th</sup> May 2021.
15. Five day Online Faculty Development Program on **“Energy Engineering”** organized by AICTE ATAL at Department of Electrical and Electronics Engineering, Global Academy of Technology, Bangalore from 7<sup>th</sup> to 11<sup>th</sup> December 2020.
16. Six Day online AICTE sponsored Short Term Training Program on **“Technical Writing & Research Methodology”**, organized by Department of EEE, Chaitanya Bharathi Institute of Technology, Proddatur from 30<sup>th</sup> November to 5<sup>th</sup> December 2020.
17. Six Day online AICTE sponsored Short Term Training Program on AICTE sponsored STTP (Series-A) on **“RECENT DEVELOPMENTS AND ENTREPRENEURSHIP IN SUSTAINABLE GREEN ENERGY TECHNOLOGIES AND SMART GRIDS”**, organized by Department of EEE, B.V.Raju Institute of Technology, Narsapur from 17<sup>th</sup> to 22<sup>nd</sup> August 2020.
18. Six day International Faculty Development Program on **“Industrial Relevance of Electrical Engineering”**, organized by Department of EEE, BVRIT HYDERABAD College of Engineering for Women, Hyderabad from 15<sup>th</sup> to 20<sup>th</sup> June 2020.
19. One week Faculty Development Program on **“Implementation and Simulation of Electrical Engineering Applications using PLECS Tool”** from 25<sup>th</sup> to 29<sup>th</sup> May 2020 organized by Vaagdevi College of Engineering, Warangal.

20. Five day Online Faculty Development Program on “**Artificial Intelligence**” organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad from 22<sup>nd</sup> to 26<sup>th</sup> May 2020.
21. Six day Online International Faculty Development Program on “**Research Challenges and Innovations in Renewable Energy Systems**” from 11<sup>th</sup> to 16<sup>th</sup> May 2020 organized by Aarupadai Veedu Institute of Technology, Paiyanoor, Chennai.
22. Six day Online Faculty Development Program on “**Research Challenges and Opportunities Post COVID-19 (RECOP – 2020)**” from 04<sup>th</sup> to 09<sup>th</sup> May 2020 organized by Sri Vasavi Engineering College (Autonomous), Tadepalligudem.
23. One week National Development Program and Online Training on “**LateX**” organized by Sanjay Ghodawat University, Kolhapur in association with Spoken Tutorial Project, IIT-Bombay from 27<sup>th</sup> April to 2<sup>nd</sup> May 2020.
24. Six day Online Faculty Development Program on “**Research Opportunities in Power Engineering(ROPE)**” from 22<sup>nd</sup> to 27<sup>th</sup> April 2020 from CMR College of Engineering and Technology, Hyderabad.
25. Three day Faculty Development Program on “**Machine Learning & Its applications**” from 28<sup>th</sup> to 30<sup>th</sup> September 2019, organized by Dept of EEE,ECE,CSE&IT,BVRIT HYDERABAD College of Engineering for Women, Hyderabad.
26. Three day workshop on “**Immersive Instructional Technology (IIT Program)**” in VEDIC, SVES from 23<sup>th</sup> to 25<sup>th</sup> July 2019.
27. Three day Faculty Development Program on “**Professional Etiquette & Emotional Intelligence**” conducted by Dept of Basic Sciences & Humanities from 8<sup>th</sup> to 10<sup>th</sup> July 2019 at BVRIT HYDERABAD College of Engineering for Women, Hyderabad.
28. One day Workshop on **Campus Energy Monitoring System (CEMS)** at IIT, Hyderabad on 29<sup>th</sup> June 2019.
29. One day workshop on “**Unconscious Bias in The Work Place (UBW)**” on 1<sup>st</sup> May 2019 organized by VEDIC at BVRIT HYDERABAD College of Engineering for Women, Hyderabad.
30. One day workshop on “**TTT(Think-Technology–Transform)**” in BVRITH on 21<sup>st</sup> June 2018.
31. One day workshop on “**Best Practices In Design &Implementation of Solar Power Plants With an Overview of Techniques in Energy Yield Estimation/ Forecasting**” at Renew X, Hitex, Hyderabad on 14<sup>th</sup> April 2018 ,organized by iacharya Silicon Limited, Chennai in association with the SRRA unit of NIWE (R&D institution under MNRE.
32. Three day workshop on “**Inspire-Impact-Introspect level-1**” at VEDIC, SVES from 24<sup>th</sup> to 26<sup>th</sup> October 2017.
33. Six day workshop on “**Liter of Light**” at BVRIT Hyderabad college of Engineering for Women from 12<sup>th</sup> to 16<sup>th</sup> October 2017.
34. One week Faculty development program on “**Open Source Software through Spoken Tutorials**” at **BVRIT Hyderabad college of Engineering for Women** , organized by IIT Bombay & Department of Information Technology, BVRIT Hyderabad college of Engineering for Women from 29<sup>th</sup> June to 5<sup>th</sup> July 2017.
35. Two Day Work shop on “**Mind-map for Effective Teaching- Learning**” at VEDIC, SVES from 6<sup>th</sup> to 7<sup>th</sup> June 2017.
36. One week Faculty development program on “**Data Science and Big Data Analytics**” at BVRIT Hyderabad college of Engineering for Women, ,organized by NIT,Warangal & Department of Information Technology, BVRIT Hyderabad college of Engineering for Women from 06<sup>th</sup> to 11<sup>th</sup> March 2017
37. Three day R&D conclave on “**Challenges and Opportunities in Research and Development for Power and Energy**” at CBIT, Hyderabad from 1<sup>st</sup> to 3<sup>rd</sup> February 2017.

38. Two day workshop on “**Solar Pro software**” at NSIC- Technical Service Centre , Hyderabad from 20<sup>th</sup> to 21<sup>st</sup> January 2017.
39. Two day satellite workshop on “**SciPy**” at BVRIT Hyderabad college of Engineering for Women, in collaboration with IIT Bombay from 10<sup>th</sup> to 11<sup>th</sup> December 2016.
40. One week Faculty development program on “**Solar PV Grid connected Power plant**” at BVRIT Hyderabad college of Engineering for Women,organized by Department of EEE in association with National Training Centre for Solar Technology, Karnataka, from 5<sup>th</sup> to 10<sup>th</sup> December 2016.
41. One week Faculty Development Program on “**Python, Scilab and Drupal from Spoken Tutorial Project**”, at BVRIT Hyderabad college of Engineering for Women, organized by Department of Information Technology, IIT Bombay from 4<sup>th</sup> to 10<sup>th</sup> November 2016.
42. Two day workshop on “**Advanced Engg Optimisation through Intelligent Techniques**”at VEDIC, SVES from 21<sup>st</sup> to 22<sup>nd</sup> October 2016.
43. Three day workshop on “**Scientific Educational Practices**” in VEDIC, SVES from 4<sup>th</sup> to 6<sup>th</sup> October 2016.
44. Three day workshop on “**Emerging Trends in Power Systems and Power Electronics**” at CVR College of Engineering, Hyderabad from 11<sup>th</sup> to 13<sup>th</sup> February 2016.

### ***Professional Memberships:***

- i. Lifetime member of Indian Society for Technical Education (**ISTE**), LM 73441.
- ii. Member of International Association of Engineers (**IAENG**), Hongkong (No:11956).
- iii. Annual Student Member of Institute of Electrical and Electronics Engineers (**IEEE**), (No:97382396).

### ***Certifications***

1. Online Certification on “**Sustainable Energy Technology**” from NPTE, November 2024.
2. Online Certification on “**Sustainable Power Generation Systems**” from NPTEL, November 2024.
3. Online Certification on “**Non-conventional Energy Resources**” from NPTEL, April 2024.
4. Online Certification on “**Smart Grid: Basics To Advanced Technologies**” from NPTEL, October 2023.
5. CII Certified Professional in **Resource Efficiency and Environmental Sustainability** in November 2023.
6. **Certified Energy Manager** in the 22<sup>nd</sup> National Certification Examination for Energy Managers held in July 2022 conducted on behalf of the Bureau of Energy Efficiency, Ministry of Power, Government of India.
7. Online Certification on “**Introduction to Raspberry pi 4**” from Udemy in Jan 2022.
8. Online Certification on “**DCMicrogrid and Control System**” from NPTEL, September 2021
9. Online Certification on “**On-line resources for supervision**” from UCPBL in May 2021.
10. Online Certification on “**Introduction to PBL**” from UCPBL in May 2021.
11. Online Certification on “**Solving non-linear problems using Swarm Intelligence**” from Udemy in May 2021.
12. Online Certification on “**Interfacing with Arduinio**” from Coursera in June 2021.
13. Online Certification on “**Introduction to Power Electronics**” from Coursera in May 2020.
14. Online Certification on “**Learn to Design your Solar Home Systems**” as a partof Energy Literacy Drive of the Energy Swaraj Foundation in May 2020.
15. Online Certification on “**Inverters Design(SVPWM) MATLAB/Simulink**” from Udemy in May 2020.

16. Online Certification on **“Natural Gas”** from Coursera in May 2020.
17. Online Certification on **“Energy : The Enterprise”** from Coursera in May 2020.
18. Online Certification on **“Safety in the Utility Industry”** from Coursera in May 2020.
19. Online Certification on **“Electric Power Systems”** from Coursera in April 2020.
20. Online Certification on **“Solar Energy Basics”** from Coursera in April 2020.
21. Online Certification on **“Wind Energy”** from Coursera in April 2020.
22. Online Certification on **“Introduction to Solar Cells”** from Coursera in April 2020
23. Online Certification on **“Designing of Power Electronic Converters in MATLAB/Simulink”** and got Certificate from Udemy in April 2020.
24. Online Certification on **“Optimization problems and Algorithms”** from Udemy in March 2020.
25. Online Certification on **“Outcome Based Education (OBE) & Academic Quality Assurance”** from Udemy in March 2020.
26. Online Certification on **“Hands-on training on Solar Study Lamp Assembly”** recognized by Skill Council for Green Jobs, offered by IITBombay X in October 2019.
27. Online Certification on **“Introduction to Smart Grid”** from NPTEL in April 2019.
28. Online Certification on **“Advance Power Electronics and Control”** from NPTEL in April 2019.
29. Online Certification on **“Design, Installation, Operation and Maintenance of Solar Utility Scale Power Projects”**, organized by iacharya Silicon Limited, Chennai in association with the SRRA unit of NIWE (R&D institution under MNRE), December 2018.
30. Online Certification on **“Introduction to Internet of Things”** from NPTEL in April 2018.
31. Online Certification on **“Solar photovoltaic Off-grid and On-grid: Design & Installation”** organized by iacharya Silicon Limited, Chennai in association with the SRRA unit of NIWE (R&D institution under MNRE), March 2018.
32. Online Certification on **“Design of Photo Voltaic Systems”** from NPTEL in October 20
33. Online Certification on **“Introduction to Research”** from NPTEL, September 2017.

### ***Guest lectures Delivered***

1. Delivered guest lecture on **“Energy Management System in Microgrid using Optimization Techniques”** organized by the IEEE RGM Student branch in association with Sensors Council Society, RGM College of Engineering and Technology, Nandyal on 16<sup>th</sup> December 2023