



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY (Autonomous)

GANGURU :: VIJAYAWADA – 521 139.

(Approved by AICTE New Delhi, Permanently Affiliated to JNTU Kakinada)

ISO 9001:2015 Certified Institution, Accredited by NAAC-A grade & NBA for CSE& ECE.

E-mail: diet.principal@gmail.com, principal@diet.ac.in, website: www.diet.ac.in, Phone: +91-8333924842, 8333924843

FACULTY PROFILE

Name of the Faculty: Dr. Mangalapuri Sravani
Designation: Assistant Professor
Email & Phone No: sravanimangalpuri@diet.ac.in & +91-7097274794
Department: Electrical and Electronics Engineering



Educational Background:

1. **Ph.D** from **VIGNAN'S University**, Guntur, AP, India in the year 2026.
2. **M.TECH** (Power System) with **GOLD MEDALIST** from **JNTU University, ANANTAPURAMU**, India in the year 2018.
3. **B.TECH** (EEE) with **First Class** from **JNTU University, ANANTAPURAMU**, India in the year 2016.

Research Areas: Power System, Power electronics application in power System

Research Experience: 4Years

Sl. No	Institute/University	Designation	Period
1	DhaneKula Institute of Engineering and Technology	Assistant Professor	10 th July 2025 - till date
2	Vignan's Foundation for Science Technology and Research (Deemed to be University)	Full time Research Scholar /Teaching Assistant	21 st Oct 2021–9 th July 2025

Research /Project Work Carried:

1. **ANALYSIS AND MITIGATION OF POWER QUALITY PROBLEMS IN GRID-INTEGRATED WITH DISTRIBUTED GENERATION(DG) USING UNIFIED POWER QUALITY CONDITIONER BASED ON ARTIFICIAL INTELLIGENT TECHNIQUES** —Ph.D Project under the Guidance of Polamraju V.S. Sobhan, Professor& HOD, EEE department, Vignan's University.
2. **MITIGATION OF POWER QUALITY PROBLEMS USING UPQC With FLC--M.Tech** Project under the Guidance of Dr. A. Sudhakar, Sr. Assistant Professor, EEE department, MITS.
3. **ENHANCEMENT OF POWER QUALITY BY USING UNIFIED POWER QUALITY CONDITIONER (UPQC)----**B.Tech Project under the Guidance of Mr.G.Vaddikasulu, Associate Professor, EEE department, AECN.



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Co-Curricular Activities:

1. Attended two days National Level Workshop on FUNDAMENTALS OF MATLAB, 30th and 31st January, 2016 in ANDHRA Engineering College, Atmakur (N), A.P.
2. Attended Two day's National Conference on Recent Trends In Engineering held on 30th and 31st Sep. 2015 Organized by Department of EEE, ANDHRA Engineering College, Atmakur (N), A.P.
3. Attended Joint International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2017) & Power, Circuit and Information Technologies (ICPCIT-2017), 27th -29th April 2017, will be held at Madanapalle Institute of Technology & Science (MITS) (UGC-AUTONOMOUS), Madanapalle, Andhra Pradesh, INDIA.
4. Attended AICTE Training and Learning (ATAL) Academy FDP on Certain Aspects of Electric Vehicles to achieve Sustainable Energy at VIGNAN'S LARA INSTITUTE OF TECHNOLOGY & SCIENCE from 11/12/2023 to 16/12/2023.
5. Attended AICTE Training And Learning (ATAL) Academy Faculty Development Program on Agricultural PV Systems and Electric Vehicles: Pioneering Sustainable Energy and Transportation Solutions at VIGNAN'S LARA INSTITUTE OF TECHNOLOGY & SCIENCE from 25/11/2024 to 07/12/2024.

List of Publications (International Journals):

1. **Mangalapuri Sravani** and Polamraju V.S. Sobhan, "Performance evaluation of solar PV integrated with custom power device under various load conditions, "e-Prime - Advances in Electrical Engineering, Electronics and Energy, Volume 10, 2024, 100843, ISSN 2772-6711, doi.org/10.1016/j.prime.2024.100843 [SCOPUS INDEXED, I.F: 4.2], ELSEVIAR.
2. **Mangalapuri Sravani**, Polamraju V.S. Sobhan, Deep reinforcement learning-based controller for DC-link voltage regulation and voltage sag compensation in a solar PV-integrated UPQC system. Sci Rep, 15, 25800 (2025), <https://doi.org/10.1038/s41598-025-08729-1>. [SCIE indexed, I.F-3.9], SPRINGER.
3. **Sravani Mangalapuri** and V.S. Sobhan Polamraju, "Deep Learning Technology Based Maximum Power Point Tracking In Solar Photovoltaic System", Eng. Res. Express, Vol: 7, No.3, 035331, 2025, [DOI 10.1088/2631-8695/adf419](https://doi.org/10.1088/2631-8695/adf419). [ESI INDEXED]
4. **Sravani Mangalapuri** and V.S. Sobhan Polamraju, "Optimization of solar PV-UPQC performance using enhanced IPQ theory with DNN technique", FranklinOpen, Vo:16, 2026, <https://doi.org/10.1016/j.fraope.2026.100656>. [SCOPUS INDEXED], [ELSEVIAR]



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Book Chapters:

1. Paruchuri.Chandra Babu Naidu, J.N.Swaminathan, M.Rajendiran and **M.Sravani**, "Smart Device with Arduino Controller for Home Inverter", Springer Book Series, Lecture Notes in Networks and Systems (LNNS), Vol: 1021, pp 95–104, doi.org/10.1007/978-981-97-3591-4_8,2024 [SOPUS Indexed].
2. Paruchuri.Chandra Babu Naidu, **M.Sravani** and Polamraju V.S. Sobhan "Analysis and Improvement of PV System Efficiency Using Dual Axis Solar Tracker with Arduino Uno," Springer Book Series, Lecture Notes in Electrical Engineering (LNEE), Vol: 1240, PP: 83-95,https://doi.org/10.1007/978-981-97-6091-6_7, [SCOPUS Indexed].
3. Paruchuri.Chandra Babu Naidu, J.N.Swaminathan, M.Rajendiran and **M.Sravani** "Investigation and Improvement of the Efficiency of Solar PV Systems with Dual Axis Solar Tracker Utilizing Arduino Uno," paper is accepted in *Springer Book Series, Lecture Notes in Networks and Systems (LNNS)*[SCOPUS Indexed].

International Conferences:

1. **Sravani Mangalapuri** and P. V. S. Sobhan, "Analysis and Improvement of the Power Quality in Grid Integrated to Distributed Generation (Solar PV System) Using UPQC,"2023 International Conference on Advanced & Global Engineering Challenges (AGEC), Surampalem, Kakinada, India, 2023, pp. 20-25, doi: [10.1109/AGEC57922.2023.00016](https://doi.org/10.1109/AGEC57922.2023.00016) [SCOPUS INDEXED].
2. **Sravani Mangalapuri** and V. S. S. Polamraju, "Enhance quality of Power in Grid Tie Solar Photovoltaic System using Deep learning MPPT," 2024 Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE), Vellore, India, 2024, pp. 1-6, doi: [10.1109/ic-ETITE58242.2024.10493635](https://doi.org/10.1109/ic-ETITE58242.2024.10493635) [SCOPUS INDEXED].
3. **S. Mangalapuri** and P. V. S. Sobhan, "A Deep Learning Technology Based UPQC To Enhance The Power Quality Problems In Grid Integrated To Solar Photovoltaic System," 2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECs), Bhopal, India, 2025, pp. 1-6, doi: [10.1109/SCEECs64059.2025.10941650](https://doi.org/10.1109/SCEECs64059.2025.10941650). [SCOPUS INDEXED].
4. Paruchuri.Chandra Babu Naidu, **M. Sravani** and P. V. S. Sobhan, "Unification of DC-DC converters to obtain Single-input Dual-Output for EVs," 2024 International Conference on Recent Innovation in Smart and Sustainable Technology (ICRISST), Bengaluru, India, 2024, pp. 1-5, doi: [10.1109/ICRISST59181.2024.10921762](https://doi.org/10.1109/ICRISST59181.2024.10921762). [SCOPUS INDEXED].



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Achievements/Awardsetc : 1. Received SILVER MEDAL in B.Tech –JNTU Ananthapuramu.

2. Received GOLD MEDAL in M.Tech–JNTU Ananthapuramu.

Certification Courses Completed: Deep learning, machine learning Matlab course completed

Journal Reviewer: Journal of Solar Energy Research

Mangalapuri Sravani