

Bio-Data

Dr. N. Susheela

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Department of Electrical Engineering

University College of Engineering (A)

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EDUCATIONAL QUALIFICATIONS:

- Ph. D.(Electrical Engineering), Osmania University, 2018
- M.E.(Industrial Drives and Control), Osmania University, 2009
- B. Tech. (Electrical and Electronics Engineering), JNTU Hyderabad, 2003

WORK EXPERIENCE:

- 8th June 2020 to till date: Associate Professor, Department of Electrical Engineering,
University College of Engineering(A), Osmania University, Hyderabad
- 8th June 2007 to 7th June 2020: Assistant Professor, Dept. of Electrical Engineering,
University College of Engineering(A), Osmania University, Hyderabad

RESEARCH AREAS OF INTEREST:

- Multilevel Inverters
- Power Electronics and Drives
- Special Electrical Machines

RESEARCH PUBLICATIONS:

JOURNALS:

- [1]. **N. Susheela**, P. Satish Kumar and S. K. Sharma, “Generalized Algorithm of Reverse Mapping Based SVPWM Strategy for Diode Clamped Multilevel Inverters”, **IEEE Transactions on Industry Applications**, Vol.54, No.3, pp. 2425-2437, May/June 2018.
DOI 10.1109/TIA.2018.2790906 (**SCOPUS**)
- [2]. **N. Susheela** and P. Satish Kumar “Evaluation of POD and APOD multicarrier SPWM techniques for three-phase seven-level diode clamped multilevel inverter fed induction motor drive using FPGA” *International Journal of Power Electronics*, Inderscience Publications, Vol. 12, No. 3, pp.282-301, 2020 ISSN: 1756-6398 (**SCOPUS**)
- [3]. **Nunsavath Susheela** and Vilasagaram Revanth Chandra, “THD Analysis of 15-level Multilevel Inverter using Lesser Number of Switches with Nearest Level Control Technique” *International Journal of Power Electronics and Drive System (IJPEDS)*, Vol 15, No.3, pp.1609-1616, September 2024 ISSN: 2088-8694, DOI: 10.11591/ijped.v15.i3.pp1609-1616 (**SCOPUS**)
- [4]. Sravanthy Gaddameedhi, E.Vidya Sagar and **N. Susheela** , “Performance Investigation of PV Battery Integrated Parallel Operated Inverters in Standalone Mode” *International Journal of Renewable Energy Research (IJRER)*, ISSN: 1309-0127, Vol.14, No.1, pp.70-81, March 2024 (**SCOPUS**)
- [5]. G. Sravanthy and **N. Susheela**, “Improved Power Sharing for Parallel Connected Inverters in Standalone Micro-grid”, *International Journal of Electrical and Electronics Research (IJEER)*, Vol. 12, no. 2, March 2024 (**SCOPUS**)
- [6]. Thara Singh Amgoth and **N.Susheela**, “Regulation of Active and Reactive Powers in grid tied load by PV- STATCOM” *International Journal of Applied Engineering Research*, ISSN 0973-4562 Vol. 18, No. 4, pp. 331-338, 2023 DOI: 10.37622/IJAER/18.4.2023.331-338
- [7]. Sravanthy Gaddameedhi and **N. Susheela**, “Modified Space Vector Modulation Technique for Circulating Current Reduction in Parallel Inverters”, *International Journal of Research and Analytical Reviews*, Vol. 10, No. 1, Feb 2023
- [8]. A. Shiva Krishna Prasad and **N. Susheela** “Hardware In Loop Simulation of Advanced Aerospace Vehicle”, *Learning and Analytics in Intelligent Systems Volume 4 “Advances in*

Decision Sciences, Image Processing, Security and Computer Vision”, International Conference on Emerging Trends in Engineering (ICETE), Vol.2, Springer Nature Switzerland AG 2020, pp. 481 – 489. ISSN 2662-3447; ISBN 978-3-030-24317-3
DOI: 10.1007/978-3-030-24318-0 (**SCOPUS**)

- [9]. **N. Susheela** and P. Satish Kumar, "Performance Evaluation and Comparison of Diode Clamped Multilevel Inverter and Hybrid Inverter based on PD and APOD Modulation Techniques" International Journal of Advances in Applied Sciences, Vol. 8, No.2, pp. 143-153, June 2019. (**SCOPUS**)
- [10]. **N. Susheela** and P. Satish Kumar, “Multicarrier SPWM Control Techniques for Three Phase Eleven Level Diode Clamped Multilevel Inverter and Hybrid Inverter with Reduced Number of Components”, International Journal of Applied Power Engineering, Vol.7, No.3, pp. 251-263, December 2018. ISSN: 2252-8792, DOI:10.11591/ijape.v7.i3.pp251-263 (**SCOPUS**)
- [11]. **N. Susheela** and P. Satish Kumar “Carrier Based Sinusoidal Pulse Width Modulation Control Strategy for Three Phase Nine Level Diode Clamped Multilevel Inverter and Hybrid Inverter with Reduced Components” Helix, Vol. 8(3), pp. 3336-3342, April 2018 ISSN: 2319-5592 DOI: 10.29042/2018-3336-3342
- [12]. **N. Susheela** and P. Satish Kumar, “Performance Analysis of FPGA based Diode Clamped Multilevel Inverter Fed Induction Motor Drive using Phase Opposition Disposition Multicarrier Based Modulation Strategy”, International Journal of Power Electronics and Drive Systems, Vol.8, No.4, pp.1512- 1523, December 2017 ISSN: 2088-8694
DOI: 10.11591/ijpeds.v8i4.pp1512-1523 (**SCOPUS**)
- [13]. **N. Susheela** and P. Satish Kumar, “Performance Evaluation of Carrier Based PWM Techniques for Hybrid Multilevel Inverters with Reduced Number of Components,” Science Direct, **Energy Procedia**, Elsevier 117 pp. 635-642, September 2017
DOI: 10.1016/j.egypro.2017.05.164 (**SCOPUS**)
- [14]. **N. Susheela** and P. Satish Kumar, “Performance Evaluation of Multicarrier Based Techniques for Single Phase Hybrid Multilevel Inverter using Reduced Switches,” Indonesian Journal of Electrical Engineering and Computer Science, Vol. 7, No. 3, pp. 676-686, September 2017. (**SCOPUS**)

- [15]. N. Susheela and P. Satish Kumar, "Comparative Analysis of Carrier Based Techniques for Single phase Diode Clamped MLI and Hybrid Inverter with Reduced Components," Indonesian Journal of Electrical Engineering and Computer Science Vol. 7, No. 3, pp. 687 – 697, September 2017. DOI: 10.11591/ijeecs.v7.i3.pp687-697 (SCOPUS)
- [16]. N. Susheela and P. Satish Kumar "Analysis and Comparison of Various Pulse Width Modulation Strategies for Hybrid Inverter with Reduced Number of Components," International Journal of Inventions in Engineering & Science Technology, Vol. No. 3, pp.12-26, July 2017. e-ISSN: 2454-9584; p-ISSN: 2454-8111
- [17]. **N. Susheela** and P. Satish Kumar "Evaluation of Carrier Based Neutral Point Potential Regulator with Small DC Link Capacitors for Diode Clamped Inverter," International Journal of Inventions in Electronics & Electrical Engineering, Vol. No. 3, pp.9-22, July 2017. e-ISSN: 2454-9592; p-ISSN: 2454-8081
- [18]. **N. Susheela** and P. Satish Kumar and B. Sirisha "Hybrid Topologies of Multilevel Converter for Current Waveform Improvement", International Journal of Inventive Engineering and Sciences, ISSN: 2319–9598, Vol.01, Issue-4, pp.29-37, March, 2013.
- [19]. B. Sirisha, **N. Susheela** and P.Satish Kumar "Three Phase Two Leg Neutral Point Clamped Converter with output DC Voltage Regulation and Input Power Factor Correction" International Journal of Power Electronics and Drive System (IJPEDS), Vol. 2, No.2, June 2012. (SCOPUS)

CONFERENCES:

- [1]. **N.Susheela**, V. Revanth Chandra and P.Malathy "Optimal Nearest Level Control Modulation Technique for 25-Level Asymmetrical Hybrid Multilevel Inverter Topologies with Reduced Switch Stress" at the "5th International Conference on Electrical and Electronics Engineering (ICEEE 2024), Springer Nature Singapore (Scopus indexed LNEE series) organized by Swinburne University of Technology, Melbourne, Australia during September 11-12, 2024.
- [2]. **Susheela Nunsavath** and Revanth Chandra Vilasagaram "Performance Evaluation of NLC Strategy Based 25-Level Inverter with Reduced Switches", in the 3rd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems organized by

Department of Electrical Engineering, Delhi Technological University, Delhi during 26th to 28th April 2024.

- [3]. **Susheela Nunsavath**, Merugu Arpitha and Mergu Shrawan, “Carrier based PWM method to evaluate MLI performance using output voltage boost fed induction motor with less device count”, IEEE IAS Global Conference on Emerging Technologies (GlobConET-2022), May 20-22, 2022 DOI: 10.1109/GlobConET53749.2022.9872424 (**SCOPUS**)
- [4]. M. Hindu Sree Reddy, **N. Susheela** and P. Malathy, “Sinusoidal Tracking Method for Cascaded Multilevel Inverter fed Induction Motor Drive” 2021 IEEE sponsored International Conference on Emerging Trends in Industry 4.0 (ETI 4.0) held at OP Jindal University, Raigarh, Chhattisgarh, India during 19th to 21st, May 2021 DOI: 10.1109/ETI4.051663.2021.9619306 (**SCOPUS**)
- [5]. Shiva Krishna Prasad and **N. Susheela** “Hardware in Loop Simulation of Advanced Aerospace vehicle”, International Conference on Emerging Trends in Engineering (ICETE) organized by University College of Engineering, Osmania University, Hyderabad during 22nd to 23rd March, 2019.
- [6]. **N. Susheela** and P. Satish Kumar “Carrier Based Sinusoidal Pulse Width Modulation Control Strategy for Three Phase Nine Level Diode Clamped Multilevel Inverter and Hybrid Inverter with Reduced Components” International Conference on Recent Innovations in Electrical and Electronics Engineering (ICRIEEE-2017), Jawaharlal Nehru Technological University, Hyderabad, 29th to 30th December 2017.
- [7]. **N. Susheela** and P. Satish Kumar “Performance Evaluation of Carrier Based PWM Techniques for Hybrid Multilevel Inverters with Reduced Number of Components”, 1st International Conference on Power Engineering, Computing and Control (PECCON-2017) conducted by VIT University, Chennai Campus, India during 2nd to 4th March, 2017.
- [8]. **N. Susheela**, P. Satish Kumar and S. K. Sharma “Mapping Method Based Space Vector Modulation Technique for Diode Clamped Multilevel Inverters”, 3rd IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics Engineering (UPCON-2016), Indian Institute of Technology, Banaras Hindu University, Varanasi, U.P, India, 9th to 11th December, 2016. (**SCOPUS**)
- [9]. **N. Susheela**, P. Satish Kumar and C.H. Reddy “Performance Analysis of Four Level NPC and NNPC Inverters using Capacitor Voltage Balancing Method”, 3rd IEEE Uttar Pradesh

Section International Conference on Electrical, Computer and Electronics Engineering (UPCON-2016), Indian Institute of Technology, Banaras Hindu University, Varanasi, U.P, India, 9th to 11th December, 2016. (SCOPUS)

- [10]. **N. Susheela**, P. Satish Kumar and B. Sirisha “Implementation of High Step up DC-DC converter using Cascode Technique from Fuel Cell Electric Conversion System” National Conference on Advancements in Electrical and Electronics Engineering (NCAEEE-2012), organized by Department of Electrical and Electronics Engineering, organized by Sri Venkateswara College of Engineering, Sriperumbudur, 17th to 18th February, 2012.
- [11]. **N. Susheela**, M. V. Ramana Rao, R. Linga swamy and E. Vidyasagar “Simulation of a Novel Single-Phase Three-Leg AC/AC Converter fed Universal Motor” National conference on Power Electronics & Drives (PEDC’11), organized by Department of Electrical and Electronics Engineering, A.C. College of Engineering & Technology, Karaikudi, Tamilnadu, 9th March, 2011.

AWARDS/ HONORS:

- Received second best paper award in Power Electronics and Drives track for presenting research paper titled “Mapping Method Based Space Vector Modulation Technique for Diode Clamped Multilevel Inverters” in the 3rd IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics Engineering (UPCON-2016) held at Indian Institute of Technology, Banaras Hindu University, Varanasi, U.P, India during 9th to 11th December, 2016.

ADMINISTRATIVE EXPERIENCE IN DEPARTMENT / COLLEGE / UNIVERSITY:

- Chairperson, Board of Studies, EED, UCE (A) from 22nd April 2024 onwards
- Public Relations Officer, University College of Engineering (A), Osmania University from 15.12.2021 to till date
- General Warden, Girls Hostel, University College of Engineering, Osmania University from May 2019 to till date.

- Coordinator for Industry Institution Interaction Activities, Department of Electrical Engineering, University College of Engineering, Osmania University from 15.04.2019
- Member, Departmental Research Committee (DRC), EED, UCE, OU w.e.f. 10.12.2021.
- Observer for TS ECET-2024 Recruitment Test scheduled on 6th May 2024.
- Incharge Head, EED, UCE(A), OU during 05.08.2024 and 06.08.2024, 03.07.2024, 21.06.2024, 02.04.2024 to 04.04.2024, 24.5.2024 to 27.5.2024, 23.4.2022, 9.5.2022, 23.05.2022 and 24.5.2022, 03.10.2022 and 04.10.2022
- Selection Committee Member for OBS Degree College, Ameerpet, Hyderabad for a period of two years w.e.f. 11.04.2023.
- Member, Logo and Brochure release function of Platinum Jubilee Celebrations 2023-2024 organized by EED, UCE(A), OU at Assembly Hall on 03.11.2024
- Observer for TS EAMCET-2022, TS EAMCET-2021 and TS EAMCET-2020 Examinations
- Observer for TSSPDCL Recruitment Test -2022
- Observer TS SCCL(Singareni Collieries Company Limited) recruitment examination 2022
- Incharge Head, EED, UCE(A), OU on 23.4.2022, 9.5.2022, 23.05.2022, 24.5.2022, 03.10.2022 and 04.10.2022
- Member, Departmental Committee, EED, UCE, OU w.e.f. 09.07.2021.
- Member, Committee for reviewing the payment of Salaries/Wages to the Contract/ Daily Wages Employees working at Hostels & Messes, UCE(A), OU
- Member, Anti-Drugs Committee, UCE, OU w.e.f. 03.11.2022
- Member, COVID-19 monitoring committee, UCE(A), OU for the implementation of COVID-19 standard operating procedures (SOPs) as directed by Govt. of Telangana w.e.f. 04.09.2021.
- Member, Industrial Liason Committee, UCE(A), OU w.e.f. 20.07.2019.
- Member, Anti Ragging Committee, UCE(A), OU for prevention of Ragging, 2021-2022 and 2022-2023.
- Selection Committee Member, Chennais Amrita Institute of Hotel Management, Khairatabad for a period of two years w.e.f. 29.06.2021.

- Project Co-coordinator for the consultancy work to support as Project Management Unit for City-Wide Unified Traffic Control System. Agreement signed between GHMC and Department of Electrical Engineering, University College of Engineering (A), Osmania University on 22.03.2021.
- NBA Coordinator for ME Programme - Industrial Drives and Control specialization, Department of Electrical Engineering, University College of Engineering, Osmania University, 2020-2021. The programme got accredited for a period of 3 years.
- Coordinated MoU signed between Midwest Energy Private Limited and Department of Electrical Engineering, University College of Engineering (A), Osmania University on 03.04.2021 to promote green technologies.
- Coordinated MoU signed between Central Power Training Institute, Southern Power Distribution Company of India Limited (TSSPDCL), Hyderabad and Department of Electrical Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad on 16th July, 2019 for the benefit of Electrical Engineering Students.
- Faculty Advisor for ME programme - Industrial Drives & Control, Department of Electrical Engineering, University College of Engineering, Osmania University from 6th April 2015 to March 2024.
- Departmental Examination Incharge, B.E internal, M.E internal and External Examinations, Department of Electrical Engineering, University College of Engineering, Osmania University from 14th November 2018 to 7th February 2021.
- Coordinated for finalizing the eligible BE student (EEE) for Satkartar Scholarship-Alumni Association, Osmania University.
- Coordinator for MoU's in Department of Electrical Engineering, University College of Engineering, Osmania University from 15.04.2019 to till date.
- Member, Board of Studies, Department of Electrical Engineering, University College of Engineering from 10.12.2019 to till date.
- Departmental Placement Coordinator during 2019-2020.
- Member, Ph.D. Research scholars Hostel admission of University College of Engineering, Osmania University from 22.10.2019 to till date.
- Lab Incharge, Digital Electronics and Logic Design Lab during 2019-2020 onwards

- Member, Committee for review of payment of salaries/wages to the contract/daily wages employees working at hostels and messes at University College of Engineering (A), Osmania University from 25.09.2019 to till date.
- Incharge, BE project allotment, BE project assessment and BE internship, Department of Electrical Engineering, University College of Engineering, Osmania University from 6th April 2015 to 2018.
- Lab Incharge, Digital Electronics and Integrated Circuits Lab during 2018-2019.
- Departmental Convener, M.E.(PTPG) Admissions, 2016-2017, Department of Electrical Engineering, University College of Engineering, Osmania University.
- NBA Coordinator for BE programme, Department of Electrical Engineering, University College of Engineering, Osmania University in 2012. Department got Accredited for 5 years i.e., from 2013-2014 to 2017-2018.
- Incharge, Time Tables, BE/ME , Department of Electrical Engineering, University College of Engineering, Osmania University from 2008-2012.
- Involved in Preparing Half-Yearly and Annual Performance Reports in 2009-2010 and 2010-2011 and Hand Book in 2011-2012 in Department of Electrical Engineering, UCE,OU.
- Involved in preparing the Annual Quality Assurance Report (AQAR) of the IQAC for 2020-2021
- Coordinated for three batches for finalizing the eligible BE student (EEE) for Satkartar Scholarship-Alumni Association, Osmania University.

INDUSTRIAL/ FIELD VISIT:

- Industrial visit to State Load Despatch Centre, Khairatabad, Hyderabad on 7.11.2024 along with students of ME (EE) (IDC, PES and PS) III-Semester, 2024-2025 batch
- Visited Analogics Tech India Limited, Nacharam on 02.03.2024 along with ME (EE) (IDC, PES and PS) students, 2023-2024 batch
- Visited Analogics Tech India Limited, Nacharam on 16.02.2024 along with faculty members
- Industrial visit to State Load Despatch Centre, Vidyut Soudha, TRANSCO, Hyderabad along with students of BE (EEE) VII Semester students on 18.10.2023

- Visited ECIL to discuss the MoU activities between Department of Electrical Engineering, UCE(A), OU and ECIL on 12.10.2023
- Industrial visit to Bharath Heavy Electricals Limited, Ramachandrapuram, Hyderabad along with the students of BE (EEE) V Semester, 2022-2023 batch on 21.09.2023
- Field visit to Axiom Energy Conversion Limited to discuss the MoU activities between Department of Electrical Engineering, UCE(A), OU and Axiom Energy conversion Limited to benefit the students and staff in the field of Electric Vehicles during 2022-2023
- As Coordinator of induction programme, accompanied the newly admitted BE first semester students of UCE, OU for the academic year 2022-2023 for OU Campus visit and City Tour as a part of Induction Programme
- Industrial visit to Bharath Heavy Electricals Limited, Ramachandrapuram, Hyderabad along with the students of BE (EEE) VII Semester, 2021-2022 batch 11th March 2022
- Accompanied the newly admitted BE first semester students of UCE, OU for the academic year 2021-2022 for OU Campus visit and City Tour as a part of Induction Programme
- Industrial visit to Hydrel Generating Power Stations- Srisailam and Nagarjuna Sagar with Teaching and Non-Teaching staff, Department of Electrical Engineering, University College of Engineering(A), Osmania University during 13th to 14th February, 2021.
- Industrial visit to Kaleshwaram Project visit with all teaching faculty and non-teaching staff. Around 39 members have participated from Department of Electrical Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad during 22.02.2020 and 23.02.2020.
- Industrial visit to NTPC - Simhadri Power Plant, Vishakapatnam and Hinduja National Power Corporation Limited accompanying BE-3/4 and 4/4 EEE students to power grid. Around 93 students have participated accompanied by 7 teaching faculty and 2 non-teaching staff during 19/09/2019 to 21/09/2019.
- Field visit to Central Power Training Institute, TSSPDCL, Hyderabad accompanying BE-3/4 EEE students along with 3 faculty members, Department of Electrical Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad on 09.01.2020.

- Field Visit to Control Room at GHMC, Zonal Commissioner Office, Khairatabad with faculty members of Department of Electrical Engineering, University College of Engineering, Osmania University on 7th January 2020.
- Field visit (Indoor and Outdoor labs) to Central Power Training Institute, TSSPDCL, Hyderabad along with 4 faculty members, Department of Electrical Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad. Visit is planned before entering into MoU for the benefit of Electrical Engineering Students on 18.05.2019.
- Industrial visit to Kothagudem Thermal Power Station (KTPS), Paloncha, Khammam District accompanying the Students of BE 3/4, Department of Electrical Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad. Around 64 students have participated accompanied by 4 faculty members during 17.3.2017 and 18.03.2017.

WORKSHOPS/TRAINING PROGRAMMES/ LECTURES ORGANIZED/COORDINATED:

- Coordinator for organizing Essay Writing Competition on "Culture of Integrity for Nation's Prosperity" as a part of Vigilance Awareness Week-2024, Power Grid Corporation of India Limited, organized by EED, UCE(A), OU on 30.10.2024
- Coordinator for organizing a guest lecture on “Artificial Intelligence and Machine Learning Trends” by Sri. Raveender Kommera, Divisional Chief Technology Officer at Capital One Auto Finance Marketing & Analysis, USA organized by EED, UCE(A), OU as a part of the Platinum Jubilee Celebrations on 27th September 2024.
- Coordinator for one day Workshop on GE Products organized by Department of Electrical Engineering, University College of Engineering, Osmania University in association with GE Digital, Hyderabad on 18th March 2024
- Coordinator for organizing a Lecture on “Overview of Power Supply Position Before and After Formation of Telangana”, Decennial Celebrations of Telangana State Formation (2014-2023), on 20.06.2023
- Departmental coordinator for organizing Taksh-2023 during 25th to 26th April 2023

- College Level Coordinator for organizing Two Week Induction Programme for BE First Semester Students of 2022-2023 batch, University College of Engineering, OU during 2nd to 12th November, 2022
- Co-convener for National Mathematics Day, 2023 organized at EED, UCE, OU on 1st March 2023
- Coordinated Batukamma Celebrations organized by University College of Engineering, Osmania University at Assembly Hall on 1st October, 2022
- College Level Coordinator for organizing One Week Induction Programme for BE First Semester Students of 2021-2022 batch, University College of Engineering, OU during 1st to 7th December, 2021
- Coordinator for organizing a Two Day Twinning Programme between “Department of Electrical Engineering, University College of Engineering(A), Osmania University” and “Department of Electrical and Electronics Engineering”, VSSUT, Burla under TEQIP during December, 2020.
- Coordinator, One day awareness programme on “MATLAB, LATEX and Hardware Implementation” organized by Department of Electrical Engineering, University College of Engineering(A), Osmania University” on 31.08.2019.
- Departmental Coordinator for organizing “Finishing School-2019” for BE final year students organized by EED, UCE (A), OU during July 2019.
- Coordinated Consultancy Work i.e, third party inspection for fixing of CC cameras at office of the Zonal Commissioner, Office building in Begumpet, Circle-30, Secunderabad zone, Greater Hyderabad Municipal Corporation on 21.08.2020.
- Coordinator for organizing “Summer Internship Program-2019”, Department of Electrical Engineering, University College of Engineering(A), Osmania University
- Coordinator, Techsonance-2016, Department of Electrical Engineering, University College of Engineering, Osmania University during 4th – 5th March, 2016.

WORKSHOPS/ TRAINING PROGRAMMES ATTENDED:

- Lecture Series#16 on “Opportunities of Research Projects for Academia in Armament Field through ARMREB” by Senior Scientists from Armament Research Board

(ARMREB), DRDO, Ministry of Defense organized by ARC, UCE (A), OU on 25th April 2024.

- Lecture on Fundamental of Electricity Markets by Dr.Bala Saikian, Power Systems Software Engineer, GE organized by EED, UCE, OU on 25.04.2024
- Online Mode Short Term Course and Faculty Development Programme on “ Power Converters for Green Energy and EV Integration (PCGEEI-2024)” organized by Centre of Excellence on Renewable Energy Systems, Department of Electrical Engineering, NIT Rourkela, Odisha, India from 13.03.2024 to 17.03.2024
- Online Mode Short Term Course and Faculty Development Programme on “Applications of Machine Learning Technologies in Sustainable Technologies (AMLST-2024) organized by the Department of Computer Science and Engineering and Electrical Engineering, NIT Rourkela, Odhisha, India from 24.01.2024 to 28.01.2024
- One Week Workshop on “Smart Hybrid Energy Systems-Challenges and Solutions” organized by EED, UCE (A), OU during 18th to 23rd December 2023.
- Online One Week Short Term Course on “MOOCS, E-Content Development, Online Pedagogy & Open Educational Resources”, organized by UGC- HRDC, Osmania University during 20.02.2023 to 25.02.2023
- Lecture Series#5 on “Auditing Electrical Safety Programme” by Shahid Jamil, IEEE IAS Distinguished Lecturer, Professional Engineer and Electrical Safety Consultant, Canada at Dept of Electrical Engineering, UCE, OU jointly organized by PES/IAS/PELS Jt Chapter Hyderabad Section and ARC, Dept. of EEE and IEEE PES SBC on 30.11.2022.
- Three Day Training Programme for "Public Servants on Effective Implementation of Govt. Policies & Programmes" at Dr. MCR HRD Institute of Telangana, Jubilee Hills, Hyderabad from 20.09.2022 to 22.09.2022
- Distinguished Alumni Lecture Series#2 on “An Artificial Intelligence Approach for Online Product Reviews and Review Synthesis” by Prof. Praveen Kopalle, Signal Companies, Professor of Management & Marketing Tuck School of Business Dartmouth College, USA at Tagore Auditorium, OU on 21.07.2022
- Talk on " Project Proposals Procedures and Practices - Role of Funding Agencies" by Dr Pratishta pandey, Head , R&D, Department of Science and Technology (DST), New

Delhi Organized by IQAC and Office of the Dean, Development and UGC Affairs, OU at Senate Hall, Administrative Building, Osmania University on 16.07.2022.

- Talk on “An overview of transmission network in Telangana State” by Sri. T. Jagath Reddy, Director, TS TRANSCO at EED, UCE, OU on 28.04.2022.
- Foundation Day celebrations at Tagore Auditorium, OU on 26.04.2022
- One Day Faculty Training Workshop on Lab to Product: Enabling Universities to Technology Transfer Hubs on 07.04.2022.
- Online Training on Knimbus Virtual Library Software-Access to E-books, E-journals, E-resources through off-campus or remote access organized by Diamond Jubilee Library, UCE, OU on 28.03.2022.
- Talk on “Cluster Approach to Restructuring the Higher Education Institutions in Telangana” by Prof.D.Ravinder, Vice-Chancellor, Osmania University at OU Centenary Conference Hall, Arts College, Osmania University on 08.09.2021.
- Online Awareness Program on “DST-FIST: The Prospects” Organized by Dean, Development & UGC Affairs, Osmania University on 21.08.2021.
- Two Week Online Short Term Training Programme on “Emerging Technologies in Electric Vehicles”, organized by Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla during 02.08.2021 to 14.08.2021.
- AICTE sponsored One Week Online STTP on "Recent Advances in EV Technologies", Series-D, organized by Department of Electrical and Electronics Engineering, Matrusri Engineering College during 12.07.2021 to 17.07.2021.
- AICTE sponsored One week Online STTP on “Recent Advances in EV Technologies”, Series-C, organized by Department of Electrical and Electronics Engineering, Matrusri Engineering College during 14.06.2021 to 19.06.2021.
- One week Refresher Course on “Applications of AI Techniques in Electrical Engineering” organized by Department of Electrical Engineering, University College of Engineering(A), Osmania University in association with Veer Surendra Sai University of Technology (VSSUT), Burla, Odisha under Technical Education Quality Improvement Programme (TEQIP-III) during 18.11.2019 to 23.11.2019.
- Five-day Online STTP on “MATLAB based Teaching-Learning in Mathematics, Science and Engineering” organized by the Department of Electronics Engineering, Ramrao Adik

Institute of Technology, Nerul, Navi Mumbai in collaboration with Design Tech Systems Pvt Ltd, Mumbai during 18.05.2020 to 22.05.2020.

- Three day workshop on “Outcome based Education (OBE) and NBA Accreditation (SAR preparation and Assessment)” during 12.08.2020 to 14.08.2020.
- Two day workshop on “Challenges for Professional Women: Work-Life Balance” organized by Department of Electrical Engineering, University College of Engineering(A), Osmania University, Hyderabad in association with IEEE Hyderabad Section WIE (AG) on 07.02.2020 and 08.02.2020.
- Two day Online Workshop on “Reliability and its Applications to Power Systems and Drives” organized by Department of Electrical Engineering, University College of Engineering(A), Osmania University, Hyderabad in association with Department of Electrical Engineering, VSSUT, Burla, Odisha on 26th and 27th June, 2020.
- Online Technical Quiz conducted by PSNA-ISTE student chapter, Department of EEE, PSNA College of Engineering & Technology, Dindigul, Tamilnadu during 2019-2020.
- Two day workshop on “Leadership & Research Challenges for Professional Women” organized by Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad in association with IEEE Hyderabad Section WIE on 4th and 5th January, 2019.
- One week short term delivered by Prof. Akshay Kumar Rathore, Associate Professor, Dept. of Electrical & Computer Engineering, Concordia University, Montreal Canada on “High Voltage Gain Soft-Switching Advanced Current-fed Technologies for Microgrid and Electric Transportation” sponsored by Ministry of Human Resource Development (MHRD), Govt. of India under the scheme ‘GIAN’ organized by the Department of Electrical Engineering, University College of Engineering(A), Osmania University, Hyderabad, India from 18th December 2017 to 23rd December 2017.
- One Day Induction Programme at University College of Engineering (A), Osmania University, Hyderabad, India on 20th January 2018.
- One day seminar on “Institutionalization of Quality Assurance System in Higher Education” organized by Internal Quality Assurance Cell (IQAC), Osmania University, Sponsored by Rashtriya Uchchatar Shiksha Abhiyan (RUSA), Govt. of Telangana State at PGRRCDE Auditorium, Osmania University on August 01, 2017.

- One day workshop on “Women for Excellence” WE 2017, organized by University College of Engineering(A), Osmania University, Hyderabad on 8th March, 2017.
- One day “Awareness Workshop on Outcome Based Education and Accreditation”, organized by University College of Engineering (A), Osmania University, Hyderabad, Telangana, India in association with National Board of Accreditation (NBA), New Delhi, India on 18th December, 2016.
- Two Day Workshop on “Teaching, Learning and Assessment Methodologies” organized by University College of Engineering(A), Osmania University, Hyderabad under TEQIP-II on 13th & 14th Dec, 2016.
- One week National Level Faculty Development Program on “Real Time practices in Electrical and Electronics Engineering (RTPEEE)” organized by Department of Electrical & Electronics Engineering, Shri Vishnu Engineering College for Women (A), Vishnupur, Bhimvaram during 26th Sep to 1st Oct 2016.
- Two day workshop on “Power Quality-Harmonic Analysis for Power Systems” conducted by Department of Electrical Engineering, University College of Engineering(A), Osmania University during 19th and 20th September 2016.
- Two Day Training Programme on “Implementation of Space Vector Pulse Width Modulation for Multilevel Inverters using FPGA” A Technology Transfer under SERB Project, sponsored by TEQIP Phase-II, conducted by Department of Electrical Engineering, University College of Engineering (A), Osmania University during 16th – 17th September, 2016.
- One day workshop on “Women for Excellence-2016” organized by University College of Engineering(A), Osmania University, Hyderabad on 9th March, 2016.
- Coordinator, Techsonance, Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad, 2016.
- One week training programme on “Power Electronics and Drives for Vehicular Systems- Technology Status & Future Trends” organized by Department of Electrical Engineering, University College of Engineering (A), Osmania University, under TEQIP-II, during 23rd to 28th November, 2015.

- One day workshop on “How to write Research Proposal” organized by University College of Engineering (A), Osmania University, Hyderabad under project TEQIP-II, 18th Sep, 2015.
- Three Day Workshop on “Solar Photovoltaic Training Program” organized by Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad during 2nd to 4th March, 2015.
- Two weeks “Faculty Development Programme in Entrepreneurship” sponsored by NSTEDB, DST, New Delhi, organized by Entrepreneurship Development Cell, Osmania, University, Hyderabad during 2nd to 14th February, 2015.
- Three Day Workshop on “Engineering Research Methodology” ” organized by Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad during 26th to 28th August, 2013.
- Seminar on “MATLAB & Simulink for Engineering Education” conducted by Math Works India on 31st August 12.
- Two Week Staff Development Programme on “High Voltage Testing Measurements & Gas Insulated Substations” at Department of Electrical and Electronics Engineering, JNTU, Hyderabad during 12.12.2011 to 24.12.2011.
- Four Week Orientation Course at UGC-Academic Staff College, Osmania University, Hyderabad during 01.06.2010 to 28.06.2010.
- Three week Refresher course on “Advances in Power Electronics and their applications to Drives and Power Systems” organized by Academic Staff College, UGC, JNTU, Hyderabad during 10th to 29th November, 2008.
- Orientation Programme at Osmania University, Hyderabad during 02.07.2007 to 12.07.2007 organized by Academic Staff College, UGC, Osmania University
- Two day workshop on “Power System Operation & Control”, jointly organized by EED, UCE, OU & SNIST 27th to 29th November 2007.
- Two day workshop on “Power Quality”, organized by EED, UCE, OU during 28th & 29th September 2007.
- National Conference on “Distribution Automation” organized by Central Power Research Institute, Bangalore 29th to 31st October 2007.

GUEST LECTURES DELIVERED:

- Lecture on “Role of AI in Smart Grid and Renewable Energy Systems” on 13.03.2024 during SERB-DST aided Seminar on “AI Strategies for Next Generation Smart Grid Infrastructure (AINSGI-2024)” organized by Department of Electrical and Electronics Engineering, Guru Nanak Institutions Technical Campus (Autonomous), Ibrahimpatnam, Hyderabad from 11.03.2024 to 15.03.2024
- Lecture on “Awareness on Research Paper Writing” on 4.10.2022 to the participants of the Online Faculty Induction Programme organized by the UGC-HRDC, Osmania University, Hyderabad during 06.09.2022 to 04.10.2022.
- Lecture on “Research Motivation and Document Preparation” in a five day workshop on Engineering Research Methodologies” organized by Department of Electrical Engineering, University College of Engineering, Osmania University during 13th to 17th May, 2019.
- Lecture on “Multi Carrier PWM strategies-Hybrid Multilevel Inverters” in a Two Day Training Programme on “Implementation of Space Vector Pulse Width Modulation for Multilevel Inverters using FPGA” A Technology Transfer under SERB Project, sponsored by TEQIP Phase-II, organized by Department of Electrical Engineering, University College of Engineering, Osmania University during 16th to 17th September, 2016.
- Lecture on “Awareness on Research Paper Writing” on 4.10.2022 to the participants of the Online Faculty Induction Programme organized by the UGC-HRDC, Osmania University, Hyderabad from 06.09.2022 to 04.10.2022.

CHAIRING TECHNICAL SESSION / MEMBER :

- Session Chair for 2nd International Conference on Emerging Trends in Engineering (ICETE) organized by Alumni Association, UCE, OU during 28th to 30th April 2023
- Resource Person for “Micro Teaching Evaluation” on 12.1.2022 at Online Faculty Induction Programme organized by UGC-Human Resource Development Centre, Osmania University during 3.1.2022 to 2.2.2022

- Session Co-Chair at International Conference on Emerging Trends in Engineering (ICETE) at University College of Engineering, Osmania University, Hyderabad during 22nd to 23rd March, 2019.
- Session Co-Chair, Power Electronics and Drives Renewable Energy at International Conference on “Innovative Technologies in Engineering-2018” organized by University College of Engineering, Osmania University, Hyderabad, Telangana India during 11th to 13th April 2018.
- Member, Keynote Lecture committee, “HYDRO-2019”, International Conference organized by the Department of Civil Engineering, University College of Engineering, Osmania University, Hyderabad in association with the Indian Society of Hydraulics (ISH) held during 18th to 20th December 2019.
- Member, Organizing committee, “International Conference on Emerging Trends in Engineering (ICETE)” organized by University College of Engineering, Osmania University, Hyderabad during 22nd to 23rd March, 2019.

No. of Ph.D. STUDENTS GUIDING:

- 6 (guiding)

MEMBERSHIP IN PROFESSIONAL BODIES:

- Member : IEEE
- Member : IEEE Women in Engineering (WIE)

(Dr. N. Susheela)