

Profile



Dr. CH. SIVA KUMAR, ASSOCIATE PROFESSOR
Department of Electrical Engineering University
College of Engineering (A) Osmania University,
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Areas of Interests : Hybrid Power Systems, Renewable Energy Sources,
Power Quality, Optimization, Smart Grid Technologies,
Distributed Generation

Educational Qualifications

S.No.	Exam passed	University / Institute	Year of passing	Specialization
1	DEEE	K.D.R. Govt Polytechnique, Wanaparthy	1993	Electrical Engineering
2	B.E.	Osmania University	1999	Electrical and Electronics Engineering
3	M.E.	Osmania University	2003	Power Systems
4	Ph.D.	Osmania University	2023	Electrical Engineering

Work Experience

S.No.	Company / Institute	Designation	Years
1	Lamco Lightning Arresters Mfg. Co. Ltd, Hyderabad	Trainee	11 Months
2	University College of	Academic	7 years

	Engineering, OU, Hyderabad	Consultant	
3	University College of Engineering, OU, Hyderabad	Assistant Professor	June 2007 to June 2020
4	University College of Engineering, OU, Hyderabad	Associate Professor	June 2020 to till date

Journal Publications:

2022

- 1) Kumar, CH Siva, and G. Mallesham, "A new hybrid boost converter with P & O MPPT for high gain enhancement of solar PV system." *Materials Today: 2022 – Elsevier Proceedings* (2022).

2020

- 1) Power Quality Improvement of Weak Hybrid PEMFC and SCIG Grid Using UPQC, (icete2019)(Springer) Springer Nature Switzerland AG 2020, S. C. Satapathy et al. (Eds.): ICETE 2019, LAIS 4, pp. 406–413, 2020, https://doi.org/10.1007/978-3-030-24318-0_49. Impact factor: 1.310.
- 2) Kumar, CH Siva, and G. Mallesham. "Performance of three phase AI controller based UPQC to enhance power quality of hybrid RES." *Microsystems Technologies* 26, no. 8 (2020): 2673-2682. Impact factor: 1.513.
- 3) Kumar, C.S. and Mallesham, G., 2020. Implementation of ANN-Based UPQC to Improve Power Quality of Hybrid Green Energy System. In *Energy Systems, Drives and Automations* (pp. 13-23). Springer, Singapore.
- 4) CH. SIVA KUMAR, G. MALLESHAM, "Power Quality Improvement of a Decentralized Hybrid Sustainable Energy System", *Journal of Critical Reviews*, ISSN- 2394-5125, VOL 7, ISSUE 15, 2020. Impact factor 1.091.

2018

- 1) Enhancement of Power Quality using UPQC for an Hybrid SOFC and PMSG based Wind Energy System Connected to a Weak Grid *Helix* Vol. 8(3):3313-3320 – April- 2018. DOI 10.29042/2018-3313-3320. Impact factor: 3.50.
- 2) G. Mallesham and CH. Siva Kumar, A Comprehensive Review on Control Strategies of Series and Shunt Active Filter Based Custom Power Device: UPQC to Improve Power Quality, *IJRECE*, VOL.6, ISSUE 2, pg. 1744- 1750, APR. - JUNE 2018. ISSN: 2393-9028(PRINT)|ISSN:2348-2281(ONLINE). Publication impact factor: 4.305. Global impact factor: 0.543.
- 3) Enhancement of Power Quality using UPQC for A Environmentally Clean and Efficient Hybrid PEMFC and PMSG Based Wind Energy System Connected to Weak Grid, , *IJRECE*, VOL.6, ISSUE 2, pg. 1754- 1760, APR.- JUNE 2018. ISSN: 2393-9028(PRINT)|ISSN:2348-2281(ONLINE). Publication impact factor: 4.305. Global impact factor: 0.543.

2016

- 1) CH. Siva Kumar, "Synchronized fault location scheme for multi section compound transmission system without line parameters", *International journal of research*, Vol – 03, issue -17, Nov 2016.

Reviewer for international journals:

- Elsevier: Energy
- International Journal of Electrical and Electronic Engineering & Telecommunications

Participation in Conferences:

International Conferences:

2023

- 1) CH. SIVA KUMAR, G. MALLESHAM, GCDSC-PLL and Enhanced Instantaneous Power Theory Based UPQC for Power Quality Improvement, International *Conference* on Innovations in Clean Energy Technologies. Energy Centre MANIT Bhopal. Bhopal, India, April 8-10, 2023.
- 2) CH. SIVA KUMAR, G. MALLESHAM, Optimal Design of UPQC: An Artificial Electric Field Algorithm based Variable Phase Angle Control Method, International *Conference* on Innovations in Clean Energy Technologies. Energy Centre MANIT Bhopal. Bhopal, India, April 8-10, 2023.

2020

- 1) CH. Siva Kumar and G. Mallesham, Power Quality Improvement of a Decentralized Hybrid Sustainable Energy System, ICCCEEE-2020- Pulla Reddy Engineering College(A) Kurnool, 2020. 10 - 11 Jan 2020.

2019

- 1) G. Mallesham and CH. Siva Kumar Enhancement of Power Quality using UPQC for Hybrid SOFC and SCIG based Wind Energy System Connected to Weak Grid, International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC), Coimbatore, 30 - 31 January 2019.
- 2) G. Mallesham & CH. Siva Kumar, Power Quality Improvement of Weak Hybrid PEMFC and SCIG Grid Using UPQC, ICETE 2019, University College of Engineering, Osmania University, 22nd -23rd March, 2019.
- 3) CH. Siva Kumar and G. Mallesham, Performance analysis of ANN based UPQC: to improve power quality of hybrid green energy system connected to weak grid, Computing, Communication and Sensor Network (CCSN)-2019. Institute of Aeronautical Engineering, Hyderabad, Telangana, India.
- 4) CH. Siva Kumar and G. Mallesham, Performance of three phase AI controller based UPQC to enhance power quality of hybrid RES, Energy Systems, Drives and Automation (ESDA)-2019, Kolkata, West Bengal, India.
- 5) 2. G. Mallesham and CH. Siva Kumar, Comparative Analysis of a New Three Phase Diode Clamped Seven Level and Eleven Level Multilevel Inverter Based PMSG with IGBTs and GTOs Connected to Grid, International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC), Coimbatore, 30 - 31 January 2019.

2018

- 1) G. Mallesham and CH. Siva Kumar A Comprehensive Review on Control Strategies of Series and Shunt Active Filter Based Custom Power Device: UPQC to Improve Power Quality, 3rd International Conference on Innovative Trends in Engineering, Applied Science and Management (ICITEASM-2018), Osmania University, Hyderabad.
- 2) G. Mallesham and CH. Siva Kumar, Enhancement of Power Quality using UPQC for A Environmentally Clean and Efficient Hybrid PEMFC and PMSG Based Wind Energy System Connected to Weak Grid, 3rd International

Conference on Innovative Trends in Engineering, Applied Science and Management (ICITEASM-2018), Osmania University, Hyderabad.

- 3) G. Mallesham and CH. Siva Kumar, Multiobjective Microgenetic Algorithm Based Planning and Sizing of Distributed Generation with Different Load Models, International Conference on Innovative Technologies in engineering, 2018

2017

- 1) G. Mallesham and CH. Siva Kumar, Enhancement of Power Quality using UPQC for a Hybrid SOFC and PMSG based Wind Energy System Connected to a Weak Grid, ICRIEEE-2017, JNTU, Hyderabad.
- 2) G. Mallesham and CH. Siva Kumar Enhancement of Power Quality using UPQC for Hybrid PEMFC and DFIG Based Wind Energy System Connected to Weak Grid, 2017 IEEE International Conference on Technological Advancements in Power and Energy (TAP Energy 2017) | IEEE

2008

- 1) J. Ramanjaneya Reddy, S. Jagadish Kumar and CH. Siva Kumar, "Elimination of Current Harmonics Using Active Power Filters in Distribution Systems", International Conference on Power System Analysis, Control and Optimization, March 2008, Visakhapatnam, India.

2007

- 2) **CH. SIVA KUMAR**, A.V.R.S. Sarma, and P.V.N. Prasad, "Cluster Algorithm Based Restructuring of Low Voltage Distribution System to the High Voltage Distribution System for the Reduction of Losses", IEEE International Conference held at Bikaner, Rajasthan in March 2007.
- 3) M. Manjula, A.V.R.S. Sarma, and **CH. SIVA KUMAR**, "Voltage Sag State Estimation for Assessing System Average RMS Frequency Index of a Radial Distribution System", IEEE International Conference held at Bikaner, Rajasthan in March 2007.
- 4) **CH. SIVA KUMAR**, A.V.R.S. Sarma, and M. Manjula, "Digital Protection of Power Transformer by Digital Wavelet Transform Method", IEEE International Conference held at Bikaner, Rajasthan in March 2007.
- 5) **CH. SIVA KUMAR**, M. Manjula and M.V. Ramana Rao, Practical Implementation of Microprocessor Controlled FC-TCR Compensator for Voltage Regulation", International Conference on Modeling and Simulation, held at Coimbatore in August 2007.
- 6) **CH. SIVA KUMAR**, A.V.R.S. Sarma, and P.V.N. Prasad, "Accurate Fault Location and Transmission Networks using Limited Field Data for a Three Bus System", International Conference on Modeling and Simulation, held at Coimbatore in August 2007.
- 7) **CH. SIVA KUMAR**, "Bibliography on the Application of Unified Power Flow Controller in Power Systems", International Conference on Modeling and Simulation, held at Coimbatore in August 2007.
- 8) **CH. SIVA KUMAR**, A.V.R.S. Sarma, and R. Somanatham, "Application of Active Power Filter for Compensating Unbalance Load Currents using Symmetrical Component Theory", International Conference on Information and

Communication Technology in Electrical Sciences, ICTES 2007, Dr. M.G.R University, Chennai, December 2007.

- 9) J. Ramanjaneya Reddy, S. Jagadish Kumar and **CH. Siva Kumar**, “Power Factor Control of Distribution System by using DSTATCOM”, International Conference on Modelling and Simulation, ICMS 2007, December 2007, Kolkata, India.

2006

- 1) **CH. SIVA KUMAR**, A.V.R.S. Sarma, and P.V.N. Prasad, “Fuzzy Logic Based Control of Wind Turbine Driven Squirrel Cage Induction Generator Connected to Grid “IEEE International Conference PEDES held at IIT Delhi in December 2006, (pp. 1-6). IEEE.

Best Paper Award

- 1) G. Mallesham and CH. Siva Kumar, Enhancement of Power Quality using UPQC for An Environmentally Clean and Efficient Hybrid PEMFC and PMSG Based Wind Energy System Connected to Weak Grid, 3rd International Conference on Innovative Trends in Engineering, Applied Science and Management (ICITEASM-2018), Osmania University, Hyderabad.

National Conferences:

- 1) Siva Sandeep. K, A. Sriker, Sulte.Rod, **CH. Siva Kumar**, Yesuratnam.G, “Radial Load Bus Voltage Control and Distribution VAR Dispatch”, National Power Systems Conference 2010.

Reviewer for International Conference:

- IEEE International Conference on Innovative Technologies in Engineering (ICITE2018)
- International Conference on Emerging Trends in Engineering (**ICETE2019**)
- IEEE(EDS), Delhi Chapter Supported Micro2020, 7th International Conference on Microelectronics, Circuits and Systems

Membership of Professional Societies

- Indian Society for Technical Education Life Member No. LM: **48489**
- International Association of Engineers: **267317**

Book Chapter Contributions:

- Campus Recruitment Complete Reference

Book Reviews:

- Advances of Load Frequency Control in Power System: Modern Approach by Ravi Shankar, S. K. Parida, Taylor & Francis/CRC Press. May 2021.
- Power Quality in Power Distribution Systems: Concepts and Applications” by Mahesh Kumar Mishra; Feb 2020
- Elementary Concepts of Power Electronic Drives/CRC Press/Taylor and Francis Group; Jun 2018

YouTube Lectures

- Introduction to Latex:
Link address: <https://www.youtube.com/watch?v=8b8G0C3qU5E>
- Fundamentals of optimization:
Link address: <https://www.youtube.com/watch?v=Mrm4fGug42k&t=376s>

Online Uploaded Documents

- Real Time Applications in Power Systems
<https://www.scribd.com/presentation/424827942/Real-Time-Applicatins-Powersystems>
- Matlab_Basic Programming scribd
<https://www.scribd.com/document/424824959/Matlab-Basic-Programing>
- Powe Systems SCADA
<https://www.scribd.com/document/424824197/scada-ps>
- Computer Control of Power Systems
<https://www.scribd.com/document/424823903/Computer-Control-of-Ps>
- Research mentod basics <https://www.scribd.com/document/424823372/Re-Method-BASICS>

Community Service Programmes Organized:

1. 1st November 2014 – Public Awareness Programme on “Save Power – Save Telangana” In Hyderabad.
2. November 2014 – Second year Students Outreach Programme.

Programmes Attended:

2023

1. A Five Day Online Short-Term Training Program on Recent Trends in Smart Energy Market (AI/ML, Blockchain applications), Organized by Department of Electrical Engineering in association with Teaching Learning Centre National Institute of Technology Warangal – 506 004, Telangana state, India. during 3rd – 7th July 2023.
2. A Five Day program on Real-Time Simulation using Typhoon HIL from 19th -23rd June, 2023, Organized by Typhoon HIL, Organized by Quarbz Info Systems, 2nd Floor, Skylark Complex, Chunniganj, Kanpur – 208 001, Uttar Pradesh, India.
3. A Two-week International Workshop on 'Emerging Trends in Electrical Engineering' at PVP Siddhartha Institute of Technology, Vijayawada from 14/08/2023 to 26/08/2023, Andhra Pradesh, India.

2022

1. A one-week faculty development program on Research Methodology organized by KSRM college of engineering, Kadapa from 17th -21st 2022.

2021

1. Faculty development program on Smart Grid Markets: Key Trends, Challenges and Opportunities. Conducted by Department of Electrical Engineering, NIT, Warangal from 27-07-2021 to 31-07-2021.
2. A Five Day online International Faculty Development Program on “Recent Trends in Power Electronics, Controllers and Power Systems” organized by Department of Electrical & Electronics Engineering of GMR Institute of Technology, Rajam during July 19th – 23rd, 2021

3. AICTE sponsored One Week Online STTP on “Recent Advances in EV Technologies (Series-C)” organized by Department of Electrical & Electronics Engineering, Matrusri Engineering College, during 12th to 17th July 2021.
4. AICTE sponsored One Week Online STTP on “Recent Advances in EV Technologies (Series-D)” organized by Department of Electrical & Electronics Engineering, Matrusri Engineering College, during 12th to 17th July 2021.
5. AICTE-ISTE approved Orientation/Refresher Programme on “Machine Learning for All” held during 03rd – 08th May, 2021. Organized by KSRM College of Engineering, Kadapa, Andhra Pradesh.
6. AICTE sponsored One Week Online STTP on “Recent Advances in EV Technologies (Series-C)” organized by Department of Electrical & Electronics Engineering, Matrusri Engineering College, during 14th to 19th June 2021.
7. One Week Online Short-Term Training Program (STTP) on “Design and Technology aspects of Off-grid & grid connected roof top solar and Bio-Energy (Operation & Maintenance)”, organized by department of EEE, St. Peter’s Engineering College, Hyderabad during 22nd - 27th March, 2021.
8. Short Term Course on " Restructured Electricity Supply Systems: Operation and Planning" Organized by MNIT Jaipur during March 15th - 19th March, 2021
9. A Six-Day National Online Faculty Development Programme on “Entrepreneurship Development” Organized by Osmania Technology Business Incubator (OTBI), Osmania University, Hyderabad, Telangana in association with NFED Business Facilitators Forum (NBFF), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu during 1st – 6th March. 2021

2020

1. One Week Faculty Development Programme on “Implementation and Simulation of Electrical Engineering Applications Using PLECS Tool”. Organized by Electrical and Electronics Engineering Department, VCE. During 25th - 29th May, 2020. In Association with PLEXIM, Switzerland.
2. One Week Faculty Development Program on Latex Programming and Python organized by Guru Nanak Institute of Technology from 25th to 30th May 2020.

3. A three-day online Faculty Development Programme on “Internet of things” organized by Anurag University, Department of Computer Science and engineering, 28th to 30th May 2020.
4. Five-day Online Faculty Development Programme on “AI SOLUTIONS TO POWER SYSTEM PROBLEMS” organized by the Department of Electrical and Electronics Engineering, St. PETER’S ENGINEERING COLLEGE, Hyderabad from 02.06.2020 to 06.06.2020.
5. One week Online Short-Term Training Program on “Recent Trends & Application of Solar Photovoltaic Energy System” Organized by Department of Electronics and Telecommunication Engineering in association with IETE and ReTranspower Energy Solution, held during 02nd to 06th June, 2020.
6. A five-day IGEN PIT Faculty Development Programme on “Renewable Energy systems” 8th June to 12th June organized by the institute of Green Engineers collaboration with Panimalar Institute of technology, Department of Electrical Engineering.
7. Two Week Faculty Development Programme on “Nanocomposites and Nanomaterials and its characterization” from 8th to 20th June. Organized by Vimal Jyothi Engineering College, Department of Mechanical Engineering, Kannur, Kerala.
8. One Week Online Faculty Development Program on “Grid Integration and Protection” organized by Kommuri Pratap Reddy Institute of Technology, Department of Electrical & Electronics Engineering from 22-06-2020 to 27-06-2020.
9. A Two-day online workshop on “Reliability and its appellations to Power Systems and Drives” 26th June to 28th June 2020, Organized by Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad.
10. AICTE Sponsored Online (Phase - I) Short Term Training Program on Challenges in Electric Vehicular Battery Charging & Grid Integration Issues, 3rd – 8th, August 2020, Organized by: Department of Electrical & Electronics Engineering, Rajeev Gandhi Memorial College of Engineering & Technology.
11. Three Day National Workshop (online) on “Outcome Based Education (OBE) and NBA Accreditation” (SAR Preparation and Assessment), 12-14, August 2020, Organized by University College of Engineering (A), Osmania University, Hyderabad, Telangana.
12. A one-week national workshop on “Research challenges and application of computational Tools in electrical engineering “(rcactee2020) 10th -15th August 2020, Organized by: Department of Electrical & Electronics Engineering, Vignan’s Nirula Institute of Technology and Science for Women, Peda Palakaluru, Guntur.
13. International Workshop on “Accelerate Research” conducted online during 22nd – 26th, September 2020. Organized by: Anurag Group of Institutions, Hyderabad.

2019

1. A one-week refresher course on “Application of AI Techniques in Electrical Engineering “18th - 23rd November 2019, Organized by: Department Of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad, Telangana.
2. AICTE Sponsored Five-day Faculty Development Program on “Power System “23rd – 27th September 2019, Organized by: UGC Human Resource Development Centre, JNTU Hyderabad, Telangana.

2018

1. AICTE – ISTE approved Induction/Refresher Program on “Programs, Algorithms and Data Structures Implementation using Python “, 16th – 21st July 2018, Organized by: B.V Raju Institute of Technology, Narsapur, Medak, Telangana.
3. TEQIP sponsored “One day Induction Program” on 20th January, 2019, Organized by University College of Engineering (A), Osmania University, Hyderabad, Telangana.

2017

1. One week short term course on “ High Voltage Gain Soft Computing Advanced Current – fed Technologies for Micro Grid and Electric Transportation”, Sponsored by Ministry of Human Resource Development, Govt. of India Under the Global Initiative for Academic Networks (GIAN), from 16th December – 23rd December, 2017, Organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad, Telangana.
2. Short term course on” Engineering Research Methodology” from 11th to 14th December 2017, by Department of Mechanical Engineering, University College of Engineering (A), Osmania University, Hyderabad, Telangana.
3. One-week short term course on “Big Data Analysis for Humanitarian Causes, Sponsored by Ministry of Human Resource Development, Govt. of India Under the Global Initiative for Academic Networks (GIAN), from 20th – 27th November, 2017. Organized by: Department of Computer Science and Engineering, University College of Engineering (A), Osmania University, Hyderabad, Telangana.

2016

1. A Two-Day Workshop on “Teaching, Learning and Assessment Methodologies from 13th –14th December 2016, under TEQIP-II, organized by: University College of Engineering (A), Osmania University, Hyderabad, Telangana.
2. A Two-day workshop on “Power Quality – Harmonic Analysis for Power Systems” from 19th - 20th September, 2016, Organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad, Telangana.

2015

1. A One-week Training programme on “Power Electronics and Drives for Vehicular Systems – Technology Status and Future Trends”, from 23rd - 28th November, 2015, Organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad, Telangana.
2. A One-day workshop on “How to Write Research Proposal”, on 18th September, 2015, organized by: University College of Engineering (A), Osmania University, Hyderabad, Telangana.
3. A Three-day Workshop on “Application of simulation Tools to Modern Power Systems”, from 7th - 9th May, 2015, organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad, Telangana.
4. A Three-day Workshop on “Solar Photovoltaic Training Program”, from 2nd - 4th March, 2015, organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad, Telangana.
5. A Two week “Faculty Development Program in Entrepreneurship”, Sponsored by NSTEDB, DST, New Delhi, from 2nd – 14th February 2015, Organized by Entrepreneurship Development Cell, Osmania University, Hyderabad.

2014

1. A One-week Faculty Development Program on “Advances in Power Electronics and Drives”, from 12th - 28th May, 2014, organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad.
2. A One-week short term course on “Experimental Design for Optimization”, from 19th - 23rd May, 2014, organized by: Department of Mechanical Engineering, University College of Engineering (A), Osmania University, Hyderabad.
3. 27th – 31st October 2014 – “Solar PV Engineer Certificate Training Programme” Organized by Steingbeis Centre for Technology Transfer India, Hyderabad.

2013

1. A Three-day work shop on “Engineering research methodology, from 26th - 28th August, 2013, organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad.
2. A Five-day work shop on “Power Electronics Applications”, from 14th - 18th October, 2013, organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad.

2012

1. A one-day training program on “Effective Methods of Teaching”, on 18th August, 2012, organized by: Institute of Public Enterprise, Osmania University, Hyderabad.

2011

1. AICTE sponsored Staff development program on “Advances in Power Electronics for Renewable Energy Systems”, from 20th to 25th June, 2011, Organized by: Lakki Reddy Bali Reddy College of Engineering, Mylavaram, Andhra Pradesh.

2010

1. A Two-day work shop on “Web Design” from 7th to 8th October, 2010, Organized by Center facilities for Research & Development, Osmania University, Hyderabad.
2. “UGC sponsored Orientation Course”, from 1st June to 28th June, 2010, organized by UGC Academic Staff College, Osmania University, Hyderabad.

2009

1. A Two-day work shop on “Power System Security” 14th and 15th September, 2009, organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad.
2. A Six-day national level work shop on “Power Quality ‘09” 04th to 09th May 2009, Organized by: G. Narayanamma Institute of Technology & Science, Hyderabad.
3. UGC sponsored Refresher Course on” Real time Operation and Control of Power Systems”, from 16th Feb to 07th March 2009, organized by UGC Academic Staff College, JNTU, Hyderabad.

2008

1. A Two day work shop on “EDSA Software Application to Power Systems”, 5th & 6th December 2008, Organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad.
2. Summer Research Faculty Programme, from 19th May to 21st July 2008, Under Continuous Education Program, Organized by IIT Delhi, India.

2007

1. “High Impact Presentation”, Mission10X, Organized by ISTE and WIPRO in University College of Engineering (A), Osmania University, Hyderabad, from 26th to 27th November 2007.
2. “Orientation Programme”, from 2nd to 12th July 2007, organized by Osmania University Centre for International Programmes, O.U, Hyderabad.
3. “High Impact Presentation Skills (Dale Carnegie)”, from 26th to 27th November, 2007, Wipro Limited, organized by University College of Engineering (A), Osmania University, Hyderabad.
4. A Two-day work shop on “Power Quality”, from 28th - 29th September, 2007, organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad.
5. “SUN Faculty workshop on Java Programming Language” SUN Microsystems US, organized by University College of Engineering (A), Osmania University, Hyderabad.

6. Workshop on “Teaching Methodologies in Power System Operation and Control”, on 5th May, 2007, Organized by Bharat Institute of Engineering and Technology, Hyderabad.
7. A Two-day work shop on “Special Electrical Machines”, from 2nd - 3rd April, 2007, organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad.

2006

1. A Three-day work shop on “Power System Operation and Control”, from 27th - 29th November, 2006, organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad.
 2. A One-day work shop on “Teaching and Learning Practices workshop”, on 19th April, 2006, Organized by: Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad.
 3. A six-day training program on PLC and SCADA, organized by Department of Electrical Engineering, University College of Engineering (A), Osmania University, Hyderabad in association with Prolific Systems and Technologies Pvt. Ltd.
- Chaired the session in a state level “**Rajiv Gandhi Akshay Urja Diwas**” competitions, Sponsored by Ministry of New and Renewable Energy (MNRE), New Delhi and Organized by University College of Engineering, Osmania University and Non-Conventional Energy Development Corporation of Andhra Pradesh (NE DCAP), Government of A.P, on 20th August 2009.

Programmes Organized / Conducted:

1. 30th June to 5th July 2014 – Faculty development Program on “Distributed Generation and Power Quality Issues” in Department of Electrical Engineering, UCE (A), Osmania University, Hyderabad.
2. Faculty Co-ordinator, Techsonance’08, A National Level Technical Symposium
3. Department Co-coordinator for International Conference on Innovative Technologies in Engineering, 2018
4. Co-coordinators: Fifth Diamond Jubilee Endowment Lecture on From Complexity to Mutual Adaptation, by Prof. Kumpati S. Narendra, Harold W. Cheel Professorship of Electrical Engineering at Yale University, USA, on 7th Dec., 2017.
5. Co-coordinators: Fourth Diamond Jubilee Endowment Lecture on Diamond Jubilee Endowment Lecture on Distribution Systems with High Photovoltaic (PV) Penetration Modeling, Analysis and Main Findings, by Prof. Vijay Vittal, Ira A. Fulton Chair Professor in the School of Electrical, Computer and Energy Engineering at Arizona State University, on 6th Oct., 2017.

6. Department committee member in organizing: The 16th National Power Systems Conference **NPSC-2010** is being hosted by the Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad, during December 15th-17th, 2010.
7. First Diamond Jubilee Endowment Lecture By Dr.M.Ramamoorthy Hon.Professor & Former Director, ERDA, Monday, 16th January 2012 at 5.30 p.m. in e-class room, Department of Electrical Engg., University College of Engineering (Autonomous) Osmania University, Hyderabad
8. Technical committee member to organize all the workshops and faculty development programs in the department.

Lectures Delivered

1. Delivered lecture in One-week National Level online Faculty Program on "Recent Advancements in Power Electronics and Power Conversion for Distributed Generation" on 22nd July 2020. Organized by Balaji Institute of Technology and Science, Narsampet.

Courses Taught

▪ Undergraduate Level

- Basic Electrical Engineering
- C- Programming Language
- C++ - Programming Language
- Computer Programming and Problem Solving
- Digital Electronics and Logic Design
- Non-conventional Energy Sources
- Power Systems – I
- Power Systems – II
- Switchgear and Protection
- Electrical Measurements
- Power Systems Operation and Control
- Power Quality Engineering
- Optimization Techniques
- Electric Distribution System
- Electrical Energy Conservation and Auditing
- Smart Grid Technologies
- General and Project Seminars
- Projects

▪ **Post Graduate Level**

- Renewable Energy Sources
- Advanced Power System Operation and Control
- Real Time Application to Power Systems
- Optimization Methods
- Engineering Research Methodology
- Smart Grid Technologies
- HVDC transmission
- Flexible AC Transmission Systems
- Distribution System Planning and Automation
- Artificial Neural Networks
- Power Quality Engineering
- Power System Stability
- Advanced Power System Protection
- Power System Deregulation
- Digital Circuits and Logic Design
- Mini and Major Projects