

PROFILE

Dr. K. AMARESH

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Experience Summary:

- ❖ Working as Associate Professor in the department of Electrical and Electronics Engineering in KSRM College of Engineering, Kadapa (A.P.) since September 2007.
- ❖ Worked as Assistant Professor in the department of Electrical and Electronics Engineering, KSRMCE, Kadapa from 30.06.2004 to 31.08.2007.
- ❖ Worked as Assistant Professor in the department of EEE, Royal Institute of Technology & Science-Hyderabad from 01.07.03 to 17.03.04.
- ❖ Worked as Lecturer in the department of EEE, Madina Engineering College-Kadapa from 11.11.99 to 31.01.02.
- ❖ Worked as Apprenticeship Training in marketing department in auma(india)Ltd., Bangalore from 01.07.98 to 30.06.99.

Academic Qualifications

- ❖ Completed SSC in **Nirmala Convent**, Kadapa in the year **1988**.
- ❖ Bachelor of Engineering in **Electrical Engineering** from Bangalore University in the year **1996**.
- ❖ Master of Technology in the Specialization of **Electrical Power Systems** from JNTU College of Engineering, Anantapur in the year **2004**.
- ❖ Completed Ph.D in Electrical Engineering from JNTUA, Anantapuramu on May 2016.

❖ **Title of Thesis:** Certain Reliability Optimization Techniques for Radial Distribution Systems including Distributed Generation under the guidance of Dr. V. Sankar, Professor in Electrical Engineering, Director, Foreign Affairs and Alumni Matters.

Guidance Particulars

- ❖ B. Tech Projects:- **24**
- ❖ M. Tech Projects:- **12**

Subjects Taught under UG & PG Level

UG Level:

- Electric Circuits
- Network Theory
- Electromagnetic Fields
- Electrical Machines I & II
- Power Systems I and II
- Power System Analysis
- Linear Control Systems
- Advanced Control Systems
- Reliability Engineering & Application to Power Systems
- Electrical Distribution Systems.

PG Level:

- EHVAC Transmission
- Power System Deregulation
- Power System Reliability.

Conferences Attended

National

1. K. Swarnalatha, K. Amaresh presented a paper on “Optimal Location of Static var compensator in Power Systems using GA” in National Conference on Electrical Sciences organized by AITS – Rajampet during 7-8th September 2012.
2. K. Geethika, K. Amaresh presented a paper in “Voltage Sag Analysis with Multiloop Controlled DVR” in National Conference on Electrical Sciences

organized by AITS-Rajampet during 26th July 2014, pp 110-116. ISBN 978-93-83083-68-8.

International

1. K. Amaresh, Dr. V. Sankar presented a paper on “Reliability Analysis of Composite Power Systems using Poisson’s Distribution”, in 2nd International Conference on Quality, Reliability and Information Technology held in Indian National Science Academy, New Delhi during December 18-20th 2003.
2. K. Amaresh, Dr. V. Sankar, Dr. S. Sivanagaraju presented a paper on “Minimization of Losses in Radial Distribution System by using HVDS”, in IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) for Industrial Growth held in IIT Delhi, New Delhi on December 12-15th 2006.
3. K. Amaresh, G. Venkata Lakshmi presented a paper on “Optimal Power Flow with TCSC using Genetic Algorithm”, in IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2012) held in CPRI – Bangalore during 16 – 19th December 2012.
4. K. Amaresh, Dr. V. Sankar presented a paper on “Modelling and Simulation of Wind Energy Conversion Systems Interconnected with Radial Distribution System” in International Conference on Recent Trends in Power, Control and Instrumentation Engineering (PCIE 2013) organized by ACEEE in Hyderabad during 8-9th November 2013.
5. K. Amaresh, N. Mallikarjuna presented a paper on “Utilization of UPQC in Micro Grid Distribution System with the use of Renewable Energy Sources” in 2nd International Conference on Innovations in Electrical and Electronics Engineering [ICIEEE-2015] held in Guru Nanak Institutions during 21-22nd August 2015, pp 273-280.

Journals Published

National

1. K. Amaresh and Dr. V. Sankar published paper on “Distribution System Reliability Assessment with DG” in i-managers journal on Power System Engineering, Vol.1, No. 3, August-October 2013, pp 1-7.

2. K. Amaresh and Dr. V. Sankar published paper on “Placement of DG in 33/11KV Radial Distribution System to minimize Power Losses, Improvement in Voltage Profile and Reliability using GA”, The Journal of CPRI, Vol. 9, No. 3, September 2013, pp 329-334.

International

1. K. Amaresh and Dr. V. Sankar published paper on “Placement of DG for Loss Reduction, Reliability and Voltage Improvement in Distribution Networks” in IJESR, Vol.3, Issue 5, May 2013, pp 2987-2992.
2. B. Nirmala and K. Amaresh published paper on “Optimal Allocation of DG in Distribution System for Minimization of Losses and Voltage Profile Improvement using Load Flow Analysis” in IJESR, Vol. 3, Issue 8, August 2013, pp 4419-4425.
3. K. Amaresh and Dr. V. sankar published paper on “Modeling of Photovoltaic System Interconnected with Radial Distribution System using MATLAB/SIMULINK” in IJEIT, Vol. 3, Issue 3, September 2013, pp 251-257.
4. K. Amaresh and Dr. V. Sankar published paper on “Optimization Approach for Location and Sizing of DG and Capacitor Bank for enhancement of Voltage Profile, Reliability and Loss Minimization in RDS” in IJTES, Vol. 1, Issue 7, October 2013, pp 1185-1189.
5. K. Geethika and K. Amaresh published paper on “Fuzzy based Multiloop Controller for DVR in Distribution Systems” in IJSET, Vol. 3, Issue 11, November 2014, pp 1371-1374.
6. A. Maneesha and K, Amaresh published paper on “Fault Current Interruption by the Dynamic Voltage Restorer based on Fuzzy Logic Controller” in IJPES, Vol. 5, Issue 4, September 2015, pp 264-273.
7. N. Mallikarjuna and K. Amaresh published paper on “Implementation of UPQC in Micro Grid Application with Renewable Energy Resources”, in IJSETR, Vol. 4, Issue 36, September 2015, pp 7734-7739.
8. K. Veera Karthik and Dr. K. Amaresh published paper on “ANN Control based Micro Grid Frequency and Voltage Deviation Reduction with Attached Storage System” in AIJREAS, Vol. 1, Issue 7, July 2016, pp 39-44.

9. K. Subramanyam and Dr. K. Amaresh published paper on “Modeling of Unbalanced Radial Distribution System”, in AIJREAS, Vol. 1, Issue 7, July 2016, pp 25-30.

Workshops Attended

1. Three day National Workshop conducted by Department of Electrical Engineering, JNTUCE(A), Anantapur on “Distribution & Automation-Recent Trends(DART-2005)” during 28-30th October 2005.
2. One day International Workshop on “Power Electronics, Drives and Energy Systems” conducted by IIT Delhi, New Delhi on 12th December 2006.
3. Two day national workshop under TEQIP conducted by Dept. of EEE and Mathematics in JNTUCE(A), Anantapur on “ Intelligent Techniques and their Applications in Engineering” during 14-15th February 2007.
4. Two day Training Programme on “PSIM & SKM Power Tools Software Packages” under TEQIP conducted by Dept. of EEE in JNTUCE(A), Anantapur on 31st Aug to 1st Sep 2007.
5. Two Day National Workshop on “Power Quality” under TEQIP conducted by Dept. of EEE, University College of Engineering (A), Osmania University, Hyderabad during 28-29th September 2007.
6. Three day National Workshop on “Intelligent FACTS Controllers” under TEQIP conducted by Dept. of Electrical Engg. National Institute of Technology, Warangal during 02-04th June 2008.
7. MHRD Sponsored Refresher Course on “ Neural Network & Fuzzy Logic Applications to Power System Deregulation”, conducted by Dept. of Electrical Engineering, National Institute of Technology, Warangal during 02-14th June 2008.
8. Two day National Workshop on “Awareness on Indian Electricity Act”, conducted by Department of Electrical Engineering, JNTUCE (A), Anantapur during 12-13th September 2008.
9. Short term Course on “Analysis of Modern Power Systems”, conducted by AICTE New Delhi under QIP Programme in IISC, Bangalore during 16-20th March 2009.

10. Continuing Education Programme on “Operation of Restructured Power Systems”, conducted by NIT, Warangal during 11-15th February 2013.
11. Two day Workshop on “ Initiatives for Quality Improvement in Engineering Education”, conducted by SVU College of Engineering, Tirupati during 15-16th November 2014.
12. One day Workshop on “Awareness on Washington Accord for Outcome based Education” conducted by JNTU Anantapur, Anantapuramu during 04th August 2014.
13. One day Workshop on “Awareness on Power Systems Simulation Analysis using Mi Power Software”, conducted by JNTU Anantapur, Anantapuramu during 22nd September 2015.
14. One day Workshop on “Wind Energy Conversion System”, conducted by AP RUSA in JNTU Anantapur, Anantapuramu during 20th April 2016.
15. One day Orientation Program for Prospective PIAs of Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDUGKY) conducted by National Institute of Rural Development & Panchayati Raj on 15th July 2016.

Guest Lectures

- Delivered a Technical Talk on “Short Circuit Studies in Power System Analysis” at Institute of Engineers (INDIA), Kadapa Local Centre, Kadapa on 11th February 2012.
- Delivered Technical Talk for two days on “Reliability Engineering and Applications to Power Systems” at Guru Nanak Institutions, Hyderabad on 3-4th December 2012.
- Delivered a Technical Talk on “Skill Development for Young Engineers to Reform Core Sector : Vision 2025” at Institute of Engineers (INDIA), Kadapa Local Centre, Kadapa on 15th September 2016

Memberships

- AMIE Membership with a Membership No. AM092822-7
- ISTE Life Membership with a Membership No. LM 42520

Administration Service

- Design of curriculum for the academic Years 2008-12, 2009-13 UG students under SV University, Tirupati.

- Acting as a convener, College Time Table from 2010.
- Worked as Department Placement Coordinator in Placement cell for Three years.
- Acting as Secretary for both IEI & ISTE Chapters in the college and conducting different events under the banner.
- Actively participated and worked for various committees like NBA, NAAC, AICTE, University Affiliations and Autonomous.
- Acting as Coordinator for APSSDC (Andhra Pradesh State Skill Development Corporation).

Extra-curricular Activities

- Organized many activities like Aptitude test, Debate, Group Discussions, Extempore, DUMBC, Sell out, Technical and General Quiz etc for 2nd, 3rd and 4th B. Tech Students under the department association named as ELEA.
- Member of College Cultural Club from the Department.
- Organized Successfully the Scintillation Program as a part of silver jubilee celebrations in the college during the year 2006.
- Contributed services to Sramadhan Programs conducted by NSS Unit in the college and orphanage programs outside the college.

Co-curricular Activities

- Organized two National Level Conferences for Students during the academic years 2006 and 2007.
- Organized one day National Workshop on “Power System Operation, control & Stability” in the year 2009.

Other responsibilities in Career

- Worked as Committee Member during 2006-07 and 2007-08 for Electrical Engineering Division in the Institute of Engineers (India), Kadapa Local Centre, Kadapa, Andhra Pradesh.
- Review of Two Text Books of Circuit Theory and Network by Sudhakar & Shyam Mohan by TMH Publications and other Author name not revealed.
- Review of a Text Book of Fundamental of Electrical Circuits by Edward Huges by TMH Publications.

- Acted as EAMCET observer for three Years.
- Acted as External Examiner for various labs in the different colleges.
- Acted as External Examiner for UG and PG Project Viva-Voce.
- Participated as an instructor on Personality Development for SUBHAPRADAM – A Programme on Indian Culture and Spirituality organized by TTD, Tirumala.
- Acted as Judge for National Level Technical Symposium SUMMIT-2K13 held at VBIT, Proddatur, Kadapa (dt.) during 16th February 2013.
- Acted as Judge for National Level Technical Symposium Techno Fest – 2K15 held at KLMCEW, Kadapa during 27th March 2015.
- Acted as Chair Person for International Conference on Emerging Trends in Basic Sciences, Engineering Technologies and Management Sciences held at Tirupati on 23rd July 2016.
- Acted as Judge for National Level Technical Symposium Techno Fest – 2K17 held at KORMCE, Kadapa during 17th FEB 2017.