

## CURRICULAM VITAE

Dr. K.AMARESH

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### **Objective:**

I look forward to associate myself with an organization where there is scope for contributing and upgrading my knowledge for the development of self and organization served.

### **Experience Summary**

- ❖ Working as Professor in the department of Electrical and Electronics Engineering in KSRM College of Engineering, Kadapa(A.P.) since October 2017.
- ❖ Worked as Associate Professor in the department of Electrical and Electronics Engineering in KSRM College of Engineering, Kadapa(A.P.) from 01.09.2007 to 30.09.2017.
- ❖ 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 Trainee Engineer in marketing department in auma(india)Ltd., Bangalore from 01.07.97 to 30.09.99.

### **Academic Qualifications**

- ❖ Completed SSC in Nirmala English Medium School, 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, Ananthapuramu during 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 - 34
- 📌 M.Tech Projects - 16
- 📌 Ph. D Guidance - 01 (Pursuing - Part Time)

### **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 7-8<sup>th</sup> September 2012.pp 1-5, ISBN 978-93-81583-72-2.
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 26<sup>th</sup> 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 2<sup>nd</sup> International Conference on Quality, Reliability and Information Technology held in Indian National Science Academy, New Delhi during December 18-20<sup>th</sup> 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 12-15<sup>th</sup> 2006, placed in IEEE xplore (SCOPUS).
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– 19<sup>th</sup> 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 8-9<sup>th</sup> 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 2<sup>nd</sup> International Conference on Innovations in Electrical and Electronics Engineering [ICIEEE-2015] held in Guru Nanak Institutions during 21-22<sup>nd</sup> 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, ISSN 2321-7499 and UGC Approved Journal.
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, ISSN 0973-0338 and Peer Reviewed Journal.

#### **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, ISSN 2277-2685, Impact Factor- 3.47 and UGC Approved Journal.
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, ISSN 2277-2685, Impact Factor- 3.47 and UGC Approved Journal.
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, ISSN 2277-3754, Impact Factor – 4.017 and UGC Approved Journal.
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, ISSN 2320-8007 and Impact Factor – 1.85.
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, ISSN 2348-4098 and Impact factor –5.16.
  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, Impact Factor – 4.825.
  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, ISSN 2278-7798 and Impact Factor – 3.59.
  8. K. VeeraKarthik 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, ISSN 2455-6300 and UGC Approved Journal.
  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, ISSN 2455-6300 and UGC Approved Journal.
  10. V. Uma Devi and Dr. K. Amaresh published paper on “Smart Grid Control in Distributed Generation by using matrix Converter” in IJSETR, Vol. 6, Issue 14, April 2017, pp 2726-2732, ISSN 2278-7798 and Impact Factor – 3.59.
  11. A. Swetha and Dr. K. Amaresh published paper on “Micro-grid based Energy Generation System with Brushless Generators”, in IJR, Vol.7, Issue 8, August 2018, pp 19-24, ISSN 2236-6124 and UGC Approved Journal with Impact Factor – 5.7.
  12. R. Jaya Lakshmi and Dr. K. Amaresh published paper on “Modeling and Control of Voltage Controlled DSTATCOM in Low Voltage Distribution Grids”, in IJR, Vol. 3, Issue 4, April 2019, pp 2728 - 2734, ISSN 2236-6124 and UGC Approved Journal with Impact Factor – 5.7.
  13. G. Venkata Suresh Babu, T. Mariprasath, S. Khadervali, C. Harshavardhan Reddy and K. Amaresh published a paper on “Autonomous Load Sharing Technique in Solar Photovoltaic System based DC Microgrid” in International Journal of Ambient Energy, Taylor & Francis Group, January 2020, pp 1-9, SCI Journal.

14. Dr. K. Amaresh, Dr. T. Mariprasath, M. Bhaskar Reddy and M. Saleha Tabassum published a paper on “Modeling and Analysis of Environmental Impact on Solar PV using MATLAB/Simulink “, in Test Engineering & Management Journal, Vol. 82, January 2020, pp 11439-11443, ISSN: 0193-4120, Scopus Indexed Journal.
15. Dr. T. Mariprasath, Dr. V. Kirubakaran, Dr. M. Sreedhar and Dr. K. Amaresh published a paper on “An experimental study on Spectroscopic Analysis of Alternating Liquid Dielectrics for Transformer”, in Electrical Engineering – Springer, ISSN 0948-7921, October 2020. (SCI Journal)

### **Workshops Attended**

1. Three day National Workshop conducted by Department of Electrical Engineering, JNTUCE(A), Anantapur on “Distribution & Automation-Recent Trends(DART-2005)” during 28-30<sup>th</sup> October 2005.
2. One day International Workshop on “Power Electronics, Drives and Energy Systems” conducted by IIT Delhi, New Delhi on 12<sup>th</sup> 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 14-15<sup>th</sup> 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 31<sup>st</sup> Aug to 1<sup>st</sup> 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 28-29<sup>th</sup> 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 02-04<sup>th</sup> 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 02-14<sup>th</sup> June 2008.
8. Two day National Workshop on “Awareness on Indian Electricity Act”, conducted by Department of Electrical Engineering, JNTUCE(A), Anantapur during 12-13<sup>th</sup> September 2008.

9. Short term Course on “Analysis of Modern Power Systems”, conducted by AICTE New Delhi under QIP Programme in IISC, Bangalore during 16-20<sup>th</sup> March 2009.
10. Continuing Education Programme on “Operation of Restructured Power Systems”, conducted by NIT, Warangal during 11-15<sup>th</sup> February 2013.
11. Two day Workshop on “ Initiatives for Quality Improvement in Engineering Education”, conducted by SVU College of Engineering, Tirupati during 15-16<sup>th</sup> November 2014.
12. One day Workshop on “Awareness on Washington Accord for Outcome based Education” conducted by JNTU Anantapur, Anantapuramu during 04<sup>th</sup> August 2014.
13. One day Workshop on “Awareness on Power Systems Simulation Analysis using Mi Power Software”, conducted by JNTU Anantapur, Anantapuramu during 22<sup>nd</sup> September 2015.
14. One day Workshop on “Wind Energy Conversion System”, conducted by AP RUSA in JNTU Anantapur, Anantapuramu during 20<sup>th</sup> April 2016.
15. A Five Day Continuing Education Program on “Research, Simulation and Analysis of Modern Power System Issues” conducted by NIT- Warangal during 05-09<sup>th</sup> November 2018.
16. A Two Day Workshop on “Pedagogical Skills for Outcome based Education” conducted by JNTUA College of Engineering, Anantapuramu during November 16-17<sup>th</sup> 2018.
17. A Five Day Training Program on “NBA Accreditation In ICT(Online) Mode” Conducted by NITTTR Kolkata at KSRMCE, Kadapa from 22-4-2019 to 26-4-2019.
18. A Five day Short Term Training Program (STTP) on “Control and Automation” conducted by NITTTR, Kolkata during 18.11.19 - 22.11.19 through ICT mode.
19. Dr. K. Amaresh, Sri K. Kalyan Kumar, Sri N. Sidhik and Kum. A. Jyothirmayi attended a webinar on “Sub-station Automation System” on 17.05.2020 organised by IEEE Power Energy Society & Industry Applications Society Joint Student Branch Chapter of Amrita School of Engineering -Bangalore.
20. Participated in One Week Online FDP on “Teaching, Learning & Assessment Strategies” conducted by IEEE Educational Society Chapter, Hyderabad Section from 18.05.2020 to 23.05.2020.
21. Dr. K. Amaresh participated in webinar on “Leveraging Technology on Education”, conducted by Mc Graw Hill, India on 01.05.2020.

22. Dr. K. Amaresh participated in webinar on “Introduction to Electric Vehicles” organised by IEEE Power & Energy Society, IEEE Kerala Section, Kongu Engineering College on 13.04.2020.
23. Dr. K. Amaresh participated in webinar on “COVID-19 impact on Indian electricity grid operations and the pan India lights out event of 5th April 2020”, conducted by PES India Chapter Council, PICCC, IEEE Hyderabad Section on 29.04.2020.
24. Dr. K. Amaresh Participated in Five Day IEEE KEC Webinar Series conducted by Kongu Engineering College from 04.04.2020 to 08.05.2020.

### **Guest Lectures**

- Delivered a Technical Talk on “Short Circuit Studies in Power System Analysis” at Institute of Engineers (INDIA), Kadapa Local Centre, Kadapa on 11<sup>th</sup> February 2012.
- Delivered Technical Talk for two days on “Reliability Engineering and Applications to Power Systems” at Guru Nanak Institutions, Hyderabad on 3-4<sup>th</sup> 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 15<sup>th</sup> September 2016.

### **Skilled Courses**

- Successfully completed “Electrical Power Systems” and “Solar Systems” courses through Coursera.
- Successfully completed Six Weeks course on “Online Teaching Methods” conducted by IUCEE with percentage of 83.33%.

### **Professional Memberships**

- AMIE Member with Membership No. AM092822-7
- ISTE Life Member with Membership No. LM 42520
- Professional member in IEEE with Membership No. 94574162
- IAENG Member with Membership No. 206562

### **Text Book**

- Published a Text Book with title “Distribution System Reliability Analysis using Distributed Generation” in LAP LAMBERT Academic Publishing with ISBN No. 978-3-330-01011-6 in the year 2016.

## Award

- Received “Teaching & Research Excellence” award from the prestigious IRDP group of Journals for the year 2018.
- **Dr. K. Amaresh** received “Best Researcher Award”, in the International Scientist Awards on Engineering, Science and Medicine, conducted on 06 & 07-Feb-2021, organized by VDGGOOD Professional Association, Coimbatore, India.
- **Dr. K. Amaresh** received “Innovative Research & Dedicated Excellent Professional Achievement Award”, from The Innovative Global Scientific Researchers Educationalist-Professionals & Journalist Awards & Fellowship Honours Convocation 2020-21, Chennai held on 21.02.2021.

## Patent

- **Dr. K. Amaresh** published a **patent** with Application No. **202041055437-A** on “System and a method for an Intelligent/ Automatic Tuning of Power Converter of Electric Vehicle for Charging the Battery Thereof”, published on 25.12.2020.

## Administration Service

- Design of curriculum for the academic Years R08, R09 UG students under SV University, Tirupati.
- Design of curriculum for the academic Years R14, R15 and R18 regulations under Autonomous for both UG and PG Students
- Worked as Department Placement Coordinator in Placement cell for Three years (2006-2009).
- Worked as a convener, College Time Table from 2009 to 2016.
- Worked as Dean -Admissions for two academic Years from 2016-2018.
- Acting as Academic Council Member and Chairman - BOS from the department.
- Acting as Secretary for both IEI & ISTE Chapters in the college and conducting different events under the banner.
- Active participation in various committees like NBA, NAAC, AICTE, University Affiliations and Autonomous.
- Acting as **Head of the department** from 05.02.2019.
- Acting as Student Branch Counselor, IEEE.



### **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.
- Organized Two Days Workshop on “Electrical Design Engineering”, in association with Innovians Technologies during 16-17<sup>th</sup> August 2018.
- Organized One Day workshop on “AI Techniques and Simulation to Power systems” conducted on 14.09.2018.
- Organized three day student level workshop on “PCB Design” in association with Skyfi Labs under ISTE banner during 18.03.19 to 20.03.19.
- Conducted Twenty Technical Programs such as Faculty Development Programs, Two – Day, Three-Day Workshops and Webinars in the lockdown period from April 2020 – August 2020 as a Department Head and also as IEEE Student Branch Counselor.

### **Extra-curricular Activities**

- Organized many activities like Aptitude test, Debate, Group Discussions, Extempore, DUMBC, Sell out, Technical and General Quiz etc for 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> B. Tech Students under the department association named as Electrical Club.
- Member of College Cultural Club and coordinator for Electrical Club.
- 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.

### **Other responsibilities in Carrier**

- 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.

- Participated as an instructor on Personality Development for SUBHAPRADAM – A Programme on Indian Culture and Spirituality organized by TTD, Tirumala.
- **Registered Ph.D Supervisor under JNTUA, Ananthapuramu.**
- Acted as Judge for National Level Technical Symposium SUMMIT-2K13 held at VBIT, Proddatur, Kadapa(dt.) during 16<sup>th</sup> February 2013.
- Acted as Judge for National Level Technical Symposium Techno Fest – 2K15 held at KLMCEW, Kadapa during 27<sup>th</sup> March 2015.
- Acted as Chair Person for International Conference on Emerging Trends in Basic Sciences, Engineering Technologies and Management Sciences held in Tirupati on 23<sup>rd</sup> July 2016.
- Acted as Judge for National Level Technical Symposium Techno Fest – 2K17 held at KORMCE, Kadapa during 17<sup>th</sup> February 2017.
- Acted as Judge for Kadapa District Level Technical Festival 2018 held on 5<sup>th</sup> January 2018 in AITS, Kadapa.
- Acted as Session Chair for National Level Student Symposium held at AITS (Autonomous), Rajampet on 7<sup>th</sup> February 2018.
- Acting as Editorial Board Member Engineering & Scientific International Journal, International Journal of Power Electronics and Power Systems and ISRPM Scientific Research Journals.

### **References**

- Dr.V.Sankar, Retired Professor, JNTU University Anantapur, Anantapuramu, Andhra Pradesh. Cell No. 94405 21774.
- Dr.V.S.S.Murthy, Principal, KSRM College of Engineering, Kadapa, Andhra Pradesh. Cell No. 9885230680.

I hereby declare that the above mentioned information is correct into my knowledge and I bear that the responsibility for the correctness of the above mentioned particulars.



**(Dr. K.AMARESH)**