

# Curriculum Vitae

## E. VIDYA SAGAR

Professor

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## Education

- Ph.D. (Reliability Improvement of Radial Distribution Systems Using Fault Passage Indicators, Distribution Automation and Smart Grid Technology) April 2014, Jawaharlal Nehru Technological University, Hyderabad
- MTech (Power Systems), March,2004, Jawaharlal Nehru Technological University, Hyderabad.
- Bachelor's degree in electrical and Electronics Engineering, August 1998, Jawaharlal Nehru Technological University, Hyderabad.

## Work Experience

- From 11.6.2018 onwards working as a Professor in the Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad
- From 11.6.2015 to 11.6.2018 worked as Associate Professor in the Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad.
- From 11.6.2012 to 11.06.2015 worked as Assistant Professor (Senior Scale) in the Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad.

- From 11.6.2007 to 11.06.2012 worked as Assistant Professor in the Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad.
- From 14.09.2006 to 09.06.2007 worked as Associate Professor in the Department of Electrical and Electronics Engineering, Sree Chaitanya College of Engineering, LMD Colony, Karimnagar.
- From 26.11.2004 to 13.09.2006 worked as Assistant Professor in the Department of Electrical and Electronics Engineering, Kamala Institute of Technology and Science, Singapur, Karimnagar.
- From 26.11.1998 to 25.11.2004 worked as Lecturer in the Department of Electrical and Electronics Engineering, Kamala Institute of Technology and Science, Singapur, Karimnagar.

## **Research Projects**

- A minor Research Project worth Rs. 1.00 Lakh, titled “Reliability Improvement of Distribution Systems by Using Fault Passage Indicators”, sponsored by TEQIP-II under R&D Component during the academic year 2016-2017.

## **Seminars Organized**

- Two Day online Workshop on " Reliability and Its Applications to Power Systems & Drives" from 26- 27, June 2021
- One Day Seminar on "Entrepreneurship Awareness Programme" for 3rd and 4th year students of UCE, OU, in association with EDC, Osmania University, Hyderabad on 03-03-2018.
- An interactive talk on “You Can Make the Difference” in association with Office of the Dean Students Affair, Osmania University on 01-11-2016
- An essay writing competition on "Public Role in the Eradication of Corruption" in association with Telangana Anti-Corruption Bureau was held at UCE, OU on 06-12-2016.
- An awareness campaign on "The Job Opportunities in Indian Air Force" to all the students of UCE, OU at ECE auditorium, UCE, OU. On 19-01-2017.
- A programme on "Stress Management through meditation" for NSS Volunteers of UCE, OU in association with Heartfulness Institute, Hyderabad.
- An essay writing competition on "Wastewater Management” on the occasion of World Water Day on 22-03-2017.
- Conducted 30 hours workshop on Industrial Automation using Siemens PLCs & SCADA From 23rd September-8th Oct-2017 in Association with Industry.

## **Awards**

- Received Best Teacher Award in the Academic year 2006 at Kamala Institute of Technology and Science, Singapuram, Huzurabad, Karimnagar.

## **Corporate/Administrative Experience**

Served in various administrative and academic positions at UCE, OU, some of them are:

- Head of the Department of Electrical Engineering, UCE, Osmania University from March 2023 to till date.
- Director OTBI, Osmania University from April 2023 to till date.
- Director ITE & C, Osmania University from February 2023 to till date.
- Chairperson Board of Studies in Electrical Engineering (BoS), Osmania University from 2021 to 2023.
- Vice-Principal, University College of Engineering, Osmania University from 22.11.2018 to 16.12.2021.
- Member of Departmental Research Committee, Department of EE, UCE OU.
- Member of Committee for the Preparation of Institutional Development Plan, UCE OU in 2014.
- Member of Committee for the Preparation of Strategic Plan and IDP, UCE, OU for TEQIP-III World Bank Project in 2016.
- Chairperson, Board of Studies, Electrical Engineering Department, UCE, OU, from April 2017 to April 2019.
- TEQIP-II Project Nodal Officer, UCE, OU from 2013 to 2018.
- Co-Ordinator, Incubation Centre, from 2017 to 2019.
- Co-Ordinator Internal Quality Assurance Cell, UCE, OU in 2017.
- Co-Ordinator, Technology Development Centre (TDC Building), UCE, OU from 2016 to 2019.
- NSS Programmer Officer Unit-II, UCE, OU from 2013 onwards
- IEEE Students Advisor, UCE, OU in 2012
- Convener Techsonance 2012, Department of EE, UCE, OU.
- Faculty Advisor for M.E Power Systems from 2010 to 2013
- Departmental Convener for M.E/MTech Admissions in 2010 & 2011
- Member of the committee of BoS, EEED Appointed by Hon'ble Vice-Chancellor, MGU, Nalgonda for the preparation of Rules and Regulations, Scheme and Syllabus of Four Years B.E.
- Member in the committee of BoS, EEED of Institute of Aeronautical Engineering, Dindigal for the

preparation of Rules and Regulations, Scheme and Syllabus of Four Years B.E degree course and Two-Year M.E

- Member of the committee of BoS, EEED of SR Engineering College, Hasanparthy, Warangal for the preparation of Rules and Regulations, Scheme and Syllabus of Four Years B.E degree course and Two-Year M.E Course.

## **Trainings and Other Programs Attended**

- Six Day GIAN Programme on "High Voltage Gain Soft Switching Advanced Current Fed Technologies for Micro Grid and Electric Transportation" from 18<sup>th</sup> December to 23<sup>rd</sup> December 2017, organized by the Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad.
- Five Day National Workshop on "Electronic Product Design" from 2<sup>th</sup> - 6<sup>th</sup> January, 2017 in Department of Bio-Medical Engineering, University College of Engineering, Osmania University.
- Five Day Faculty Development Programme on "Integration of Alternate Energy Sources and Smart Grid 19<sup>th</sup> - 23<sup>rd</sup> December 2016 in Department of Electrical and Electronics Engineering, Dr. N. G. P Institute of Technology, Coimbatore.
- Two Day Workshop on "Power Quality Harmonic Analysis for Power Systems" from 19<sup>th</sup> to 20<sup>th</sup> September 2016 at EED, UCE, OU.
- Six-day workshop on "Management Capacity Enhancement Program June 20-25, 2016, Indian Institute of Management Kozhikode.
- Seven Day Workshop on "Training and Orientation Programme for NSS Program Officers " from 20<sup>th</sup> to 26<sup>th</sup> May 2016 UGC-Human Resource Development Centre, Osmania University, Hyderabad.
- One Week Training Programme on "Cloud Computing and Data Analytics" from 08<sup>th</sup> Feb 2016 to 12<sup>th</sup> Feb 2016 in Department of Computer Science Engineering, University College of Engineering, Osmania University, Hyderabad.
- One week Training Programme on "Applications of Power Electronics in Smart Grid and Smart Distribution Systems" from 23<sup>rd</sup>-28<sup>th</sup> November 2015 in Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad.
- One Day workshop on "Engineering graphics using AUTOCAD" on 9<sup>th</sup> Oct 2015 at University College of Engineering, OU, Hyderabad.
- One day workshop on "How to Write Research Proposal" on 18 September, 2015 at University College of Engineering, OU, and Hyderabad.
- One day workshop on "Protection of Intellectual Property through Patents" on 12 September, 2015 at Hetero Group and Mahindra Ecole Centrale Hyderabad.

## List of Publications

- G Vasantha, Dr. E. Vidya Sagar “Reliability Comparison of Rural & Urban LVDS Networks with Corresponding HVDS Networks Including Substation Reliability” International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), PP: 58-67, Volume-13 Issue-1, October 2023. Blue Eyes Intelligence Engineering and Sciences Publication- BEIESP, DOI:10.35940/jeat.A4310.1013123.
- V. Swarna Rekha and E. Vidyasagar, "Reliability analysis of an automated radial distribution feeder for different configurations and considering the effect of forecasted electrical vehicle charging stations," IJAPE, vol. 13, no. 1, Mar. 2024, doi: 10.11591/ijape.v13.i1.pp178-185.
- V. Swarna Rekha, G. Kiran Kumar, and Dr. E. Vidya Sagar, "Reliability Evaluation of Radial Distribution Feeder Considering Two Load Modelling of Forecasted Electric Vehicle Load," International Journal of Engineering and Advanced Technology, vol. 12, no. 5. Blue Eyes Intelligence Engineering and Sciences Engineering and Sciences Publication - BEIESP, pp. 113-118, Jun. 30, 2023. doi: 10.35940/ijeat.e4211.0612523.
- V. Swarna Rekha, E. Vidyasagar "Estimation of Radial Distribution Feeder Sections Average Failure Rate for Different Located Future Forecasted EV Charging Stations" International Research Journal of Engineering and Technology (IRJET), Vol. 10, no. 2, pp. 422-430, Feb 2023.
- G Vasantha, E. Vidya Sagar “Reliability Comparison of LVDS and Corresponding HVDS of Rural & Urban Radial Feeder Networks” GRADIVA REVIEW JOURNAL, ISSN NO: 0363-8057.
- G. Kirankumar, E. Vidya Sagar, “Reliability Evaluation of Radial Distribution System for Different Substation Configurations under Normal and Two-Weather Conditions”, International Journal of Statistics and Reliability Engineering Vol. 10 (3), pp. 634-641, 2023, ISSN (P): 2350-0174, ISSN (O):2456-2378.
- G. Kirankumar, V. Swarna Reka, E. Vidya Sagar, “Effect of a Single Fault Passage Indicator Placement on Radial Distribution System Reliability under Two Weather Conditions”, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), Volume-12 Issue-5, June 2023.
- G. Kirankumar, E. Vidya Sagar, “Reliability Evaluation of a Radial Feeder Configurations by Replacing the Distribution Transformer with the Solid-State Transformer”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878 (Online), Volume-12 Issue-4, November 2023.
- G. Kirankumar, E. Vidya Sagar, “Reliability Evaluation of a Radial Feeder with the Placement of Both Shunt Capacitors and a Fault Passage Indicator”, International Research Journal of Engineering

and Technology, Volume: 09 Issue: 12 | Dec 2022, e-ISSN: 2395-0056. www.irjet.net p-ISSN: 2395-0072.

- G. Jhansi Rani, E. Vidyasagar, "Control of PV Integrated DAB Under Shading Conditions Using Improved Incremental Conductance MPPT Scheme" Journal of Harbin Engineering University, Volume 44, Issue 11, pages: 644-650, NOV-2023. ISSN: 1006-7043.
- Sravanthy Gaddameedhi, P. Srinivas, E. Vidya Sagar, "Multi-objective-based Hybrid Artificial Intelligence Controlled Parallel Inverter in Islanded and Grid Connected Operations" Recent Advances in Electrical & Electronic Engineering (RAEEE), 2352-0965, Vol 17, No. 10 April 2024.
- V. Jeetender, E. Vidya Sagar, B. Sirisha, "Closed Loop Control of DSMST Converter for Ev Applications" International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 11, Issue: 10, November 2023, ISSN: 2321-8169.
- Jeetender Vemula, E. Vidya Sagar, Tellapati Anuradha Devi, Gundala Srinivasa Rao, "Design of PV fed single-switch transformer less topology powered electric vehicle" published in Vol 5, No 2 (2024) of Transactions on Energy Systems and Engineering Applications'.
- V. Jeetender, E. Vidya Sagar, "Performance Analysis of DSMST Converter Fed BLDC Motor" Journal of Harbin Engineering University, Vol 44 No. 11, November 2023, ISSN: 1006-7043.
- E. Vidya Sagar, Y. Bhanuja, M. Lehita Sai, J. Ravali and K. Sindhu, "Reliability Evaluation and Improvement of Radial Distributed System for Uniform and Non-Uniform Loads Using Network Matrices", Journa of Advanced Research in Dynamical & Control Systems, Vol. 10, 08-Special Issue, 2018, ISSN 1943-023X
- E. Vidya Sagar, T. Kavita and G. Kiran Kumar "Reliability Analysis of Two Weather Modeled Substation and Its Impact on Practical LV & HV Distribution Systems", International Journal of Emerging Technology and Advanced Engineering, Volume 7, Special Issue 1, December 2017.
- E. Vidya Sagar, S. Deepti, A. Purna Chandar and T. Kavitha " Reliability Analysis of Sectionalized Busbar with Redundant Star Automation Scheme and its Impact on Radial Feeder", International Journal for Research in Applied Science & Engineering Technology, Volume 5 Issue XII December 2017- ISSN: 2321-9653.
- E. Vidya Sagar, A. Purna Chandar, T. Kavita and S. Deepthi, " Reliability Modelling and Analysis of Distribution System Considering Weather Effects on Substation and HVDS Concept on Feeder", International Journal of Advance Engineering and Research Development, Volume 4, Issue 12, December -2017, e-ISSN (O): 2348-4470p-ISSN (P): 2348-6406
- E. Vidya Sagar, A. Purna Chandar, T. Kavita and S. Deepthi "Reliability Based Priority Allocation of Contingencies in a Complex Power System Network", International Journal on Future Revolution in

Computer Science & Communication Engineering, Volume: 3 Issue: 12, pp-155-159, ISSN: 2454-4248.

- E. Vidya Sagar and P. Srinivas "Reliability Evaluation of Substation Equipped with Fault Current Limiter and Automation Scheme", International Journal of Electronics, Electrical and Computational System ISSN 2348-117X Volume 6, Issue 11 November 2017.
- E. Vidya Sagar and A. Purna Chandar "Reliability Evaluation of a Power System Network Due to Shortage of both Active and Reactive Power", International Journal of Electronics, Electrical and Computational System ISSN 2348-117X Volume 6, Issue 11 November 2017.
- E. Vidya Sagar, T. Kavita and G. Kiran Kumar "Reliability Evaluation of Radial Feeder for Different Proportional Failures Occurring in Adverse Weather", International Journal of Electronics, Electrical and Computational System ISSN 2348-117X Volume 6, Issue 11 November 2017.
- E. Vidya Sagar and S. Deepti "Reliability Evaluation of Distribution System with Centralized Star Automation Scheme" International Journal of Electronics, Electrical and Computational System ISSN 2348-117X Volume 6, Issue 11 November 2017.
- E. Vidya Sagar and A. Purna Chandar "Significance of Shunt Compensators in Improving Reliability Performance of an Interconnected Power System Network "International Journal of Emerging Technology and Advanced Engineering", Volume 7, Special Issue 1, December 2017
- E. Vidya Sagar, " Effect of Alternative Supply, Disconnecting Switches and Fault Passage Indicators on Reliability of Radial Distribution Feeder ", Indian Journal of Science and Research, ISSN: 2250-0138.

## Conferences

- G Vasantha, Dr. E. Vidya Sagar “Comparison of Reliability Based Customer Interruption Cost for Indian Rural & Urban LVDS with Corresponding HVDS” IEEE 7th International conference on computer applications in electrical engineering RECENT Advances (CERA) ©20XX, IEEE Conference code as CONFR-151-EED CERA2023-paper ID #367.
- G. Kirankumar, E. Vidya Sagar, “Reliability Evaluation of a Radial Distribution System with the Placement of Shunt Capacitors and Fault Passage Indicators Considering Normal and Adverse Weather Effects”, IEEE 7<sup>th</sup> International Conference on Computer Applications in Electrical Engineering-Recent Advantages (CERA 23), IIT Roorkee. 979-8-3503-0500-5/23/\$31.00 ©2023 IEEE.
- V. Jeetender, E. Vidya Sagar, B. Sirisha, V. Jagan “A Comprehensive Review on Switched Capacitor Based DC-DC Converters” First International Conference on Emerging Technologies & Applications in Electrical Engineering (ETAEE-2023), 21<sup>st</sup> to 22<sup>nd</sup> Dec 2023, CRC Press Taylor & Francis Group.

- E. Vidya Sagar, Y. Bhanuja, M. Lehita Sai, J. Ravali and K. Sindhu “Effect of Advanced Switches on Reliability of Radial Feeder for Different Cases Using Matrix Method” National Conference on Large Scale Multi-Disciplinary Systems of National Significance-Trends & Challenges. Conducted by ISRO, Govt. of India.
- E. Vidyasagar, G. Kiran Kumar “Reliability Improvement of Radial Distribution Systems Using Microgrids placed on Distributors” Proceedings of 2015 Conference on Power, Control, Communication Technologies for Sustainable Growth (PCCCTSG), IEEE Conference December 11- 12,2015, Kurnool, Andhra Pradesh, India.
- E. Vidyasagar, G. Kiran Kumar “Reliability Comparison of Different Types of Industrial Substations” Proceedings of “National Conference on Innovations and Design Challenges in Electrical and Medical Electronics “held on 21<sup>st</sup>-22<sup>nd</sup> August 2015 at GRIET Hyderabad.

## **Other Info.**

- As NSS Program Officer of Unit-II, University College of Engineering, OU Conducted/Organized/Participated in the following Activities:( From 2015 onwards)
- Webinar on "MERA BHARAT MAHAN" on 25th January 2021.
- Webinar on "MANN KI BATT" on 18th January 2021.
- "3C Success FORMULA" - seminar, on 11th January 2021.
- 150th birth anniversary Celebrations of Mahatma Gandhi ji, on 01st October 2020.
- Celebrations of NSS Day, on 24th September 2020.
- Taking of the Non- Violence Pledge, on 15 September 2020.
- Webinar on creating awareness for National Education Policy -2020, On 16th September 2020
- Online essay writing competitions on "SWACHHTHA - A Tribute to MAHATMA", on 14th September 2020.
- Awareness on Organ Donation, on 11 September 2020.
- Importance of Transformation, on 09 September 2020.
- Orientation of NSS Programme on 02 September 2020.
- Blood Grouping Activity Conducted on 28-03-2018.
- Health Checkup camp Conducted on 08-02-2018.
- Voters Day celebrations Conducted on 25-01-2018.
- International Day of Yoga organized by Heartful Institute and NSS, Osmania University at LB Stadium on 21-06-2017.



- Participated in the State level Swatch Bharath Programme organized by NSS, Osmania University for cleaning A grounds where inauguration of centenary celebrations of OU was done on 25-04-2017.
- Blood Donation camp conducted at UCE, OU on 31-03-2017.
- Participated in the Centenary Run organized on the occasion of centenary celebrations of Osmania University, in OU Campus.
- In tune with Government of India theme on Digital India an awareness programme on Digidhan Yogana (i.e. Digital Transactions) was organized to NSS volunteers of UCE, OU in association with STATE BANK OF Hyderabad, Osmania University on 27-01-2017.
- National Voters Day was celebrated. On this occasion Voters Day pledge was administered and a rally was held in the college campus of UCE, OU on 25-01-2017.
- Celebrated "Rastriya Ekta Diwas" pledge on 31-10-2016 as a tribute to India's first home minister Sri Sardar Vallabhbhai Patel.
- Organized Haritha Haram Programme in UCE, OU on 11-07-2016.
- Sadbhavana Divas pledge was administered to NSS volunteers on 20-08-2015.

**(E. VIDYA SAGAR)**