



Dr. N. Srilatha

Associate Professor, Dept. of EE, UCE, OU

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Education

- **Ph. D.** in Osmania University **August, 2021**
Submitted Doctor of philosophy (Ph.D.) Thesis in Electrical Engineering from Osmania University with the thesis titled "Congestion Management in Power System Using Artificial Intelligence"
- **Post-Graduation** in Osmania University **2006**
Master of Engineering Degree (M.E.) in Power Systems from University College of Engineering, Osmania University with thesis titled "Load Compensation Using Static Var Compensator"
- **Under graduation** in Kakatiya University **2003**
Bachelor of Technology degree (B.Tech.) in Electrical and Electronics Engineering from Kakatiya Institute of Engineering and Technology, Kakatiya University, Warangal.
- **Board of Intermediate Education** **1999**
Intermediate under Board of Intermediate Education from S.V.S Junior College, Hanamkonda, Warangal.
- **Board of Secondary Education** **1997**
SSC, Board of Secondary Education from Oasis Public School, Warangal.

Work Experience

- **Associate Professor** in the Department of Electrical Engg., UCE(A), OU with a Grade pay of Rs.9000/- from 19.09.2020 till date.
- **Assistant Professor** in the Department of Electrical Engg., UCE(A), OU with a Grade pay of Rs.8000/- during 19.09.2017 to 19.09.2020.
- **Assistant Professor** in the Department of Electrical Engg., UCE(A), OU with a Grade pay of Rs.7000/- during 19.09.2012 to 19.09.2017.

- **Assistant Professor** in the Department of Electrical Engg., **UCE(A), OU** with a **Grade pay of Rs.6000/-** during 25.06.2007 to 19.09.2012.
- **Assistant Professor** in the Department of Electrical Engg., **TKRCET, Hyderabad** with a **Consolidated pay of Rs.12000/-** during 25.06.2006 to 24.06.2007.

Areas of Research Interests

- Power System Operation, Control and Optimization
- Power System Security
- Artificial Intelligence applications for Congestion management

Subjects Taught

Under Graduate subjects

- Power System Operation and Control
- Microprocessors and Microcontrollers
- Electrical Circuits
- Power Systems
- Switchgear and Protection

Post Graduate subjects

- Smart Grid Technologies
- Advanced Computer Methods in Power Systems
- Power System Stability
- Real-Time Applications to Power Systems
- High Voltage DC Transmission
- Advanced Power Systems Protection

Awards / Honours

- Received **Prathibha Puraskar** for Excellence in performance in the combined Andhra Pradesh state during Board of Intermediate Exams in the year 1999, from the then Chief Minister, **Hon. N. Chandra Babu Naidu**.
- Received **Merit Scholarship** awarded for **Top 10 students** for excellent performance in SSC Exams in District level, in Warangal District, in the year 1997.

Institutional Administrative Experience

- Department Convener of M.E. / M.Tech. (PTPG) admissions for the academic year 2021-22

- **BoS (A) Coordinator** of the Department from April, 2020 till date.
- Examinations In charge in the department from March, 2021 till date.
- **In-charge** for preparation of Handbook, Annual Report, Half Yearly Report, IQAC Report, NIRF data in the department since 2010 till date.
- **Department Coordinator** for **3-week Induction Program** for BE-I Semester students, University College of Engineering, Osmania University during July 2019.
- **Departmental TEQIP-II In-charge** during 2013-2016.
- Coordinated the one-day field study program “33/11 KV substation at IICT, Tarnaka, Hyderabad” to BE III/IV, 2nd semester students on 6th Jan 2015.
- **NBA Coordinator**, ME Power Systems, Department of Electrical Engineering, University College of Engineering, Osmania University in 2013.
- **Time Table In charge** for BE/ME, Department of Electrical Engineering, University College of Engineering, Osmania University from 2009-2010.
- **Co-Chaired the session** of “Soft Computing and Applications in Electrical Engineering” in International Conference on Innovative Technologies in Engineering, Hyderabad, 11th - 13th April, 2018.
- **Reviewer** for International Conference on Innovative Technologies in Engineering, Hyderabad, 11th - 13th April, 2018.
- **Reviewer** for International Conference on Emerging Trends in Engineering, Osmania University, Hyderabad, 22nd - 23rd March, 2019.
- **In charge of Registrations and Proceedings Committee**, National Power Systems Conference during 15th - 17th December, 2010.

Research Publications

Journals

1. N. Srilatha, G. Yesuratnam, “Chaotic Darwinian Particle Swarm Optimization for Real-Time Hierarchical Congestion Management of Power System Integrated with Renewable Energy Sources,” *International Journal of Electrical Power and Energy Systems, Elsevier*, Vol. 128, January 2021
2. N. Srilatha, G. Yesuratnam, “Congestion Management in Deregulated Environment Aided by Demand Side Response,” *International Journal of Advanced Science and Technology*, Vol. 29, No. 8, pp. 1351-1362, 2020. ISSN:2005-4238, E-ISSN:2207-6360 (*SCOPUS indexed*).

3. N. Srilatha, G. Yesuratnam, "Optimal Location of multi-type FACTS for Power System Security Enhancement," *International Journal of Engineering and Advanced Technology*, Volume-9, Issue-2, December, 2019, ISSN:2249-8958 (*SCOPUS indexed*).
4. N. Srilatha, G. Yesuratnam, "Congestion Management Considering Economic and Efficient Generation Rescheduling," *International Journal of Recent Trends in Engineering*, Volume-8, Issue-1S4, June 2019. ISSN: 2277-3878 (*SCOPUS indexed*).
5. N. Srilatha, B. P. Rathod and G. Yesuratnam, "Machine Learning Based Prediction Model for Monitoring Power System Security," *Advances in Decision Sciences, Image Processing, Security and Computer Vision, Springer*, pp. 443-450, 2019.
6. E. Vidya Sagar, N. Srilatha, "Optimal Location and Rating of Capacitor Banks on radial Distribution Feeder", *International Journal of Engineering Research and Industrial Applications*, Vol. 4, No. 4, 2009.

Conferences

7. N. Srilatha and G. Yesuratnam, "Locational Marginal Price Based Optimal Location of UPFC for Power System Security Improvement," *International Conference on Innovative Technologies in Engineering*, Hyderabad, 11th - 13th April, 2018.
8. N. Srilatha and G. Yesuratnam, "Security Assessment and Enhancement Using RBFNN with Feature Selection," *North American Power Symposium*, Washington, 2014.
9. Srilatha N, Yesuratnam G and Shiva Deepthi M, "RBF Neural Network Approach for Security Assessment and Enhancement," *IEEE Transmission & Distribution Conference & Exposition*, Chicago, 2014.
10. Yesuratnam, N. Srilatha and P. L. Reddy, "Congestion Management Technique Using Fuzzy Logic Based on Security and Economy Criteria," *11th WSEAS international conference on Artificial Intelligence*, Cambridge University, UK, 2012.
11. Yesuratnam and N. Srilatha, "An Expert System Approach of Congestion Management for Security and Economy Oriented Power System Operation," *9th IEEE International Power and Energy Conference IPEC*, Singapore, 2010.

Workshops / Training Programs Organized

- **Organized Two Day Online Workshop** on "Reliability and its Applications to Power Systems and Drives" 26th - 27th June, 2020, UCE (A), OU.
- **Organized Three Day workshop** on "Application of Simulation tools to Modern Power Systems" during 7th - 9th May, 2015, in the Department of Electrical Engineering, UCE(A), OU. **Developed lecture notes** for software like PSSE and Power World Simulator for the workshop.

- **Organized Two Day Workshop** on ‘Power System Security’ during 14th - 15th September, 2009, in the Department of Electrical Engineering, UCE(A), OU

Expert Lectures Delivered

- Invited Lecture at Malla Reddy Engineering College on **Power System Security** on 20.12.2016
- Expert Lecture at Three Day Workshop on “**Application of Simulation tools to Modern Power Systems**” during 7th - 9th May, 2015, in the Department of Electrical Engineering, UCE(A), OU
- Expert Lecture at One Week faculty Development Program on “**Distributed Generation and Power Quality Issues**” during 30th June-5th July, 2014, in the Department of Electrical Engineering, UCE(A), OU

Workshops / Training Programs Attended

- Five-day **online Faculty Development Program** on **Recent Advances and Application of IOT in Renewable Energy Technologies** during 23rd - 27th August 2021 organized by School of Engineering and Technology, IGNOU, New Delhi
- Five-day **online Faculty Development Program** on **Smart Grid Markets - Key Trends, Challenges and Opportunities** during 27th - 31st July 2021 organized by Department of Electrical Engineering in association with Center for Continuing Education, NIT Warangal.
- One-week **online FDP** entitled **Electrical Distribution System Analysis with Renewable Energy Sources** during 12th July - 16th July 2021, organized by Department of Electrical Engineering, National Institute of Technology, Kurukshetra
- One-week **Online ATAL FDP** on **Distributed Energy Systems Modelling and Control**, organized by Govt. Engg. College, Bharuch, Gujarat, during 21st - 25th June, 2021
- Received **NPTEL Online Certification** for the subject **Introduction to Smart Grid** during **January, 2021**, after completing an **8 weeks course in SWAYAM**.
- Two-week **online FDP** on **Advanced Optimization Techniques and Hands-on with MATLAB/SCILAB**, Summer Joint Faculty Development Programmes 2020, EICT Academies at IIT Guwahati, IIT Roorkee, IIITDM Jabalpur, MNIT Jaipur, NIT Patna and NIT Warangal, during 13th - 24th July, 2020.
- **AICTE sponsored online FDP** on **AI Techniques to Electrical Engineering**, UGC-Human Resource Development Centre, JNTUH Kukatpally, Hyderabad, during 6th - 10th July, 2020.
- **Online FDP** on **Recent Strategies on Micro and Smart Grid Technology**, GMR Institute of Technology, Rajam, Srikakulam, Andhra Pradesh, under JNTU Kakinada, during 15th - 19th June, 2020.

- Online STTP on **MATLAB based teaching-learning in Mathematics, Science and Engineering**, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai, during 18th - 22nd May, 2020.
- **One Week Refresher Course on Application of AI Techniques in Electrical Engineering**, Department of Electrical Engineering, UCE, OU, during 18th - 23rd November, 2019.
- **One Day Induction Program**, University College of Engineering, Osmania University, on 20th January, 2018.
- **MHRD sponsored one-week short term course on High Voltage gain Soft-Switching Advanced Current Fed Technologies for Microgrid and Electric Transportation**, Department of Electrical Engineering, UCE, OU, during 18th - 23rd December, 2017.
- **Two Day workshop on Leadership & Research Challenges for Professional Women**, Department of Electrical Engineering, UCE, OU, during 4th - 5th January, 2019.
- **MHRD sponsored one-week short term course on Wide Area Monitoring and Control of Cyber Power System**, Department of Electrical Engineering, National Institute of Technology, Warangal, 26th - 30th December, 2017.
- **One day work shop on How to Write Research Proposal** on 18th September, 2015, organized by University College of Engineering, OU, Hyderabad.
- **2 weeks Faculty Development Programme in Entrepreneurship** during 30-12-2013 to 10-01-2014 at EDC, OU Building No. 21, Adjacent to Mechanical Engineering Department, UCE, OU.
- **AICTE-QIP Sponsored short term course on Power System Economics** at IIT Kanpur from 26th to 30th July, 2013.
- **Distinguished lecture program on Power System Reliability – Concepts & Techniques** organized by IEEE Hyderabad section on 29th November, 2011 at PGCIL.
- **UGC sponsored Refresher Course on Recent Trends in Deregulation of Power Systems** in June, 2011.
- **Three-day workshop on Power Quality Issues- Analysis and Mitigation Techniques** 27th to 29th November, 2008, organized by NIT, Warangal.
- **Two-day workshop on EDSA software Applications to Power Systems** 5th & 6th December, 2008, organized by EED, UCE, OU.
- **UGC sponsored Orientation Program** at Academic Staff College, Osmania University, during 30th July, 2012 to 30th August, 2012.
- **Two-day workshop on Power Quality** 28th & 29th September 2007, organized by EED, UCE, OU.
- **Ten-day Orientation Program** at Osmania University Centre for International Programs (OUCIP) during 2nd to 12th July, 2007.

Project Guidance

- Number of M.E. projects guided : 13
- Number of B.E. projects guided : 10

Personal Details

Father's Name : **N. Thirumala Chary**
Mother's Name : **N. Vakula Sridevi**
Date of Birth : **20th January, 1982**
Nationality : **Indian**
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Languages Known : **Telugu, English and Hindi**
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