



University College of Engineering

Osmania University



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2. **Designation** Associate Professor
3. **Department** Electrical Engineering
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6. Research Areas of Interest

- ❖ Evolutionary computation algorithms
- ❖ Optimal reactive power dispatch
- ❖ Artificial Intelligent techniques in Electrical Engineering

7. Educational Qualifications

Course	University	Institute	Year of passing	Specialization
B.Tech.	JNTU	JPNCE, Mahabubnagar	2001	Electrical & Electronics Engineering
M.Tech.	NIT Calicut	NIT Calicut	2004	Instrumentation & Control Engineering
Ph.D.	Osmania University	Univ. College of Engg.,Hyd.	2023	Electrical Engineering
	Ph.D Thesis Title: Application of Hybrid Evolutionary Algorithms to Optimal Reactive Power Dispatch.			

8. Work Experience

Organization	Designation	Period
BVRIT, Narsapur	Assistant Professor	2004
GNITS, Hyderabad	Assistant Professor	2005-2007
University College of Engineering,Osmania University, Hyderabad	Assistant Professor	2007- 2020
University College of Engineering,Osmania University, Hyderabad	Associate Professor	2020 - Till date

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9. Subjects Taught

UG

Linear Control Systems
Microprocessors & Micro Controllers
Fuzzy Systems and Genetic Algorithms
Optimization Techniques

Digital Signal Processing Applications
Programmable Logic Controllers
Signals & Systems
Control System Design

PG

Modern Control theory
Programmable Logic Controllers
Optimization Methods

Industrial Controllers
Digital Signal Processing

10. Research Publications-

Sl.No.	Particulars	Registration Number
1.	Google Scholar ID & Citations, H-Index, I-10 and I-20 Index	Google scholar ID: pu8x3PsAAAAJ Citations: 41, H-index: 3 I10-index: 2 I20 index: 1 https://scholar.google.com/citations?user=pu8x3PsAAAAJ&hl=en
2.	Scopus ID	57188680532 https://www.scopus.com/authid/detail.uri?authorId=57188680532
3.	Web of Science	MAH-2926-2025 https://www.webofscience.com/wos/author/record/MAH-2926-2025
4.	INFLIBNET-VIDWAN ID	184089 https://vidwan.inflibnet.ac.in/profile/184089
5.	ORCID	0000-0001-7064-5275 https://orcid.org/my-orcid?orcid=0000-0001-7064-5275

1. P.Lokender Reddy, Dr.G.Yesuratnam "A Modified Bacterial Foraging Algorithm Based Optimal Reactive Power Dispatch", Indonesian Journal of Electrical Engineering and Computer Science Vol. 13, No. 1, January 2019, pp. 361~367 (Scopus Indexed)
2. P.Lokender Reddy, Dr.G.Yesuratnam " A Hybrid Bacterial Foraging-Particle Swarm Optimization Technique For Solving Optimal Reactive Power Dispatch Problem" International Journal of Applied Power Engineering (IJAPE)Vol.9, No.2, August 2020, pp. 127~134 (Scopus Indexed)
3. P.Lokender Reddy, Dr.G.Yesuratnam, "Hybrid Bacteria Foraging Particle Swarm Optimization based Optimal Reactive Power Dispatch for the Alleviation of Voltage Deviations" International Journal of Engineering and Advanced Technology (IJEAT)ISSN: 2249 –8958,Volume-9Issue-2, December, 2019. (Scopus Indexed)
4. P.Lokender Reddy, Dr.G.Yesuratnam " Chaotic Particle Swarm Optimization With Attractive Search Space Border Points For Optimal Reactive Power Dispatch" *i-manager's Journal on Electrical Engineering*, 16(1), 1-14, 2022.
5. P.Lokender Reddy, R.Linga Swamy, " Multi Level Inverter THD minimization by Improved Particle Swarm Optimization", International Journal of Engineering Research and Applications, ISSN: 2248-9622, Vol. 11, Issue 10, (Series-IV) October 2021, pp. 38-42

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6. R.Linga Swamy, P.Lokender Reddy, " Simplified SVPWM for Three-Level Inverter Extending Operation into Over Modulation Region", International Journal of Engineering Research and Applications, ISSN: 2248-9622, Vol. 11, Issue 12, (Series-I) December 2021, pp. 25-32.
7. P.Lokender Reddy "Multi Level Inverter THD minimization by Non-Linear Programming Interior Point Method", International Journal Of Advanced Research in Engineering& Management(IJAREM) ISSN: 2456-2033, Vol. 07, Issue 10, 2021, pp. 47-54.
8. Babak Rooholahi and P. Lokender Reddy, " Concept and Application of PID Control and Implementation of Continuous PIDController in Siemens PLCs" Indian Journal of Science and Technology, *Vol 8(35)*, DOI: 10.17485/ijst/2015/v8i35/82262, December 2015
9. P.Lokender Reddy, Dr.G.Yesuratnam, " PSO based Optimal Reactive Power Dispatch for Voltage Profile Improvement", IEEE PCITC 2015, SOA university, Bhubaneshwar.
10. P.Lokender Reddy, Suri Sathya Prashant, Dr.G.Yesuratnam, "Reactive Power Optimization of Power System based on Particle Swarm Optimization and Non Linear Programming", Int. J. of Recent trends in Engineering and Technology, vol 11, June 2014.

11. Chairing Technical Sessions at Conferences

- ❖ *International Conference on Innovative Technologies in Engineering(ICITE)* held at University College of Engineering, Osmania University, Hyderabad, during 11th to 13th April 2018.

12. Lectures Delivered

- ❖ Handled 2 sessions in ATAL sponsored 5 day online FDP on " **Artificial Intelligence and Machine learning applications in Electrical Engineering**" at EEED, CVREC during 9-13 August 2021.
- ❖ Handled 4 sessions in AICTE sponsored Five Day Faculty Development Programme on "**AI Techniques to Electrical Engineering**" organized by HRD, JNTU Hyderabad during 16th to 20th March 2020.
- ❖ Handled a session in TEQIP sponsored Five Day Faculty Development Programme on "**AI Techniques to Electrical Engineering**" organized by EED, UCEOU, Hyderabad during 18th to 23rd November 2019.
- ❖ Handled a session on MATLAB in the National level Technical Symposium "TECHSONANCE-2018" organized by EED, UCEOU, Hyderabad
- ❖ Handled a session on MATLAB in the National level Technical Symposium "TECHSONANCE-2017" organized by EED, UCEOU, Hyderabad

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13. Administrative Experience in Universities/Colleges

- ❖ **Assistant Director, PGRRCD**, Osmania University from Aug 2025 to till date
- ❖ **Joint Director, Exam cell**, University College of Engineering, Osmania University, from Aug 2023 to October 2025
- ❖ **NBA coordinator**, University College of Engineering from August 2022 to till date.
- ❖ **Assistant chief Superintendant(Exams)** , University College of Engineering, Osmania University (October 2019-October 2021)
- ❖ **Member, Library Committee**, University College of Engineering, Osmania University (September 2020-till date)
- ❖ **Departmental Convener, M.E./M.Tech (PTPG) Admissions**, 2017, Department of Electrical Engineering, University College of Engineering, Osmania University.
- ❖ **Member, Departmental Committee**, Department of Electrical Engineering, University College of Engineering, Osmania University (Sept. 2012- 2022)
- ❖ **Incharge, Internal Exams**, Department of Electrical Engineering, University College of Engineering, Osmania University (Feb 2012- 2019)
- ❖ **NBA coordinator**, Department of Electrical Engineering, University College of Engineering, Osmania University (2015-2016 & 2018- 2024)

14. Workshops/Training Programs/ Lectures Organized/Coordinated:

- ❖ Coordinated a One week workshop on "Applications of Digital control in Power Electronic Converters" during 19th – 24th August 2024, organized by Department of Electrical Engineering, University College of Engineering, Osmania University, Hyderabad, Telangana
- ❖ Coordinator for Second Diamond Jubilee Endowment Lecture
- ❖ Coordinator for National level Technical Symposium TECHSONANCE -2023
- ❖ Coordinator for National level Technical Symposium TECHSONANCE -2016
- ❖ Coordinator for National level Technical Symposium TECHSONANCE - 2014
- ❖ Coordinator for National level Technical Symposium TECHSONANCE - 2013

15. No. of M.E./M.Tech. Projects guided: 20

16. Orientation/Refresher / Short Term Courses Attended: 04

S.No.	Name of the Course	Academic Staff College / University	Duration	Sponsoring Agency
1	Professional Development Training under TEQIP III	IIM KASHIPUR	22-02-2021 TO 24-02-2021	TEQIP
2	One day Induction Program	University College of Engineering(A), Osmania University	20/01/2018	TEQIP
3	Orientation	OSMANIA, HYDERABAD	01/06/2010 to 28/06/2010	UGC
4	Orientation	OSMANIA, HYDERABAD	02 -12 JULY 2007	OUCIP

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17. Workshops / Training Programmes Attended: 25

S.No.	Name of the Course	Academic Staff College / University	Duration	Sponsoring Agency
1	Five day Workshop on “Python Orientation”	Osmania TBI, OU & Aisdore Technologies	11th - 14th September 2023	Osmania TBI, OU
2	Five day FDP Program on “Solar PV Partial Shading Mitigation Techniques and Its Applications”	National Institute of Technology, Goa	04th – 08th July 2022	DST SERB
3	Three day (online) workshop on “Outcome Based Education (OBE) and NBA Accreditation (SAR Preparation and Assessment)” 12-14, August 2020	University College of Engineering(A), Osmania University	12/08/2020 to 14/08/2020	TEQIP
4	International Conference on Green Power Technology in Power Grid: Issues, Challenges and Control	Sri Venkateshwara College of Engineering, Tirupati	19-12-2019 to 21-12-2019	TEQIP
5	One week short term course on “High Voltage Gain Soft Switching Advanced Current-fed Technologies for Microgrid and Electric Transportation”	Department of Electrical Engineering, University College of Engineering(A), Osmania University	18/12/2017 to 23/12/2017	MHRD (GIAN)
6	Two day work shop on “Power Quality and Harmonic Analysis”	Department of Electrical Engineering, University College of Engineering(A), Osmania University	19/09/2016 – 20/09/2016	TEQIP-II
7	One week training programme on “Power Electronics and Drives for Vehicular Systems-Technology Status & Future Trends”	Department of Electrical Engineering, University College of Engineering(A), Osmania University	23/11/2015 – 28/11/2015	TEQIP-II
8	2015 IEEE PCIT Conference	SOA university	15/10/2015 – 17/10/2015	DST
9	3 day workshop on “Application of simulation tools to Modern Power Systems”	Department of Electrical Engineering, University College of Engineering(A), Osmania University	07/05/2015 – 09/05/2015	OU
10	3 day work shop on “Solar Photo voltaic Training Program”	Department of Electrical Engineering, University College of Engineering(A), Osmania University	02/03/2015 – 04/03/2015	OU
11	One week FDP on “Distributed Generation and Power Quality Issues”	Department of Electrical Engineering, University College of Engineering(A), Osmania University	30/06/2014 – 05/06/2014	TEQIP-II

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12	One week FDP on “Advances in Power Electronics and Drives”	Department of Electrical Engineering, University College of Engineering(A), Osmania University	12/05/2014-17/05/2014	TEQIP-II
13	Three day work shop on "Engineering Research Methodology"	Department of Civil Engineering, University College of Engineering(A), Osmania University	26/08/2013 to 28/08/2013	OU
14	Seminar on "MATLAB &SIMULINK"	Mathworks India pvt. ltd.	29/06/2011	Mathworks India pvt. ltd.
15	National level work shop on " Ai applications in Electrical Engineering"	GNITS, Shaikpet, Hyderabad	03/05/2010 to 08/05/2010	AICTE
16	Two day workshop on " EDSA Software Application to Power systems"	Department of Electrical Engineering, University College of Engineering(A), Osmania University & NEWTECH solutions	5 th & 6 th December 2008	TEQIP
17	Three day workshop on "Embedded Systems Design with 8051 Micro Controller"	R&D Center, Wine Yard Technologies	30/11/2007 to 02/12/2007	Wine Yard Technologies

18. Contributions to the department and college

Year	Details
2022-23	As a member of BoS proposed a new lab , Drives lab III and Power Electronics lab III based on AI techniques, to the committee and prepared syllabus and lab manuals and handled the lab.
2024-25	As a NBA Coordinator of college developed the templates for CO-PO attainments in Microsoft excel and visited the departments to create awareness about CO-PO attainments and Outcome Based Education. All the evaluators of NBA expert committee appreciated the awareness of OBE and CO-PO attainments and gave positive comments in this regard. All four PG programs got accreditation.

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