

Name: Dr J Viswanatha Rao

Designation: Professor

Department: EEE

Mail I'd: viswanatharao_j@vnrvjiet.in

Experience (in years): Teaching: 19 Research: 12 Others(if any, specify): Nil



1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Tech	1997	EEE
2	M.Tech	2005	EPS
3	Ph.D.	2010	EE

2. Teaching and Learning:

2.1. Teaching Interests: all electrical subjects

2.2. Novel Teaching & Learning Techniques adopted: Student centered Learning

2.3. Involvement in curriculum updating / Design: Acted as BOS Chairman in SCET

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

3.2. CCA/ECA Organized: Organized Blood donation camp

3.3. CCA/ECA participated: Participated in Tree Plantation in Harita Haram from TS Govt.

3.4. Counseling and Mentoring Activity: Acted as Counselor in SCET

3.5. Committees involved in:

Department level: Acted as BOS Chairman, Academic committee chairman

Institute Level: Acted as IQAC Convener, Dean Academics

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:10

4.2 Attended:20

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: 5

5.2. Articles/Chapters published in Books: NIL

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided:

a) UG: 30

b) PG: 19

5.5. Research Interests: Electrical Power Systems, Artificial Intelligence & Application to Electrical Distribution System.

5.6. Ph.D students :

- a) Enrolled: 3
- b) Submitted: NIL
- c) Awarded: NIL

5.7. Papers published in reviewed journals: **21**

S.No	Title of the Paper	Journal Name Vol.No.PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Multi-area Multi-fuel Economic–Emission Dispatch Using a Generalized Unified Power Flow Controller Under Practical Constraints	Springer’s Arabian Journal of Science and Engineering(AJSE)	ISSN 1319-8025	0.367	International
2	“Cost/Environmentally Compromised Dispatch for Cascaded Hydrothermal System Using Artificial Bee Colony Algorithm”	published IEEJ Trans. On Electrical and Electronics Engineering,	ISSN: 1931-4981	0.213	International
3	Reactive Power Compensation in Distribution Network using FC-TCR & Voltage Regulation using TCVR	Published International Journal of Technology & Sciences	ISSN: 2320-8007	1.85	International
4	Adaptive Weight Improved Discrete Particle Swarm Optimization for Optimal Distribution Network Reconfiguration	Accepted for International Journal of Computational and Theoretical Nano Science	ISSN: 1546-1955	1.66	International
5	“Combined Energy Economic and Environmentally Conscious Operation of Hydrothermal Power System Using Artificial Bee Colony Algorithm”	Journal of Basic and applied engineering research,	ISSN: 2350-0077	0.227	International
6	A Fast Power Flow Solution of Radial Distribution Networks	International Journal of Electrical Engineering	ISSN:0974-2158	0.020	International
7	Analysis of Radial Distribution Systems by optimal placement of DG using DPSO	International Journal of Engineering Research & Technology	ISSN:2278-0181	0.87	International

8	Analysis of Optimal AVR Placement in Radial Distribution Systems using Discrete Particle Swarm Optimization	International Journal of Innovative system design and Engineering	ISSN:2222-2871	6.54	International
9	Matlab/Simulink Model of wind farm to weak grid connection	International Journal of Engineering Research & Technology	ISSN:2278-0181	0.91	International
10	Optimal Conductor Selection in Radial distribution systems Using Discrete Particle Swarm Optimization	World Journal of Modeling and Simulation(WJMS) England,UK	ISSN:1746-7233	0.91	International
11	Optimal Capacitor Placement in Radial Distribution Systems using Discrete Particle Swarm Optimization	International Journal of Electronic and Electrical Engineering	ISSN:0974-2174	0.14	International
12	Discrete Particle Swarm Optimization to network reconfiguration for loss reduction and load balancing	International Journal of Electrical Power Components and systems, Tayler & Francis group USA	ISSN:1532-5008	0.47	International
13	A Loop based load flow method for weakly meshed distribution network	International journal of Asian Research Publication Network	ISSN:1819-6608	0.962	International
14	Capacitor Placement in Balanced and Unbalanced radial distribution systems by Discrete Particle Swarm Optimization	Journal of International Congress for Global Science and Technology ICGST-ACSE, Egypt	ISSN:1687-4811	0.962	International
15	Voltage Regulator Placement in Radial distribution systems using Discrete Particle Swarm Optimization	journal of International review of electrical engg.,(IREE) Italy	ISSN:1827-6660	1.36	International
16	Closed Loop Control of Inverter/Converter Topology for Electric Vehicles	published in International journal of Scientific Engineering and	ISSN:2319-8885	-	International

		Technology Research			
17	Hybrid Renewable Energy Sources Based Active Power Filter with Predictive Fuzzy Controller to Improve Power Quality	published in International journal of Scientific Engineering and Technology Research	ISSN:2319-8885	-	International
18	An Efficient Load Flow Method for Weakly Meshed and Radial Distribution Systems	I-manager's journal of Electrical Engineering	ISSN:0973-8835	-	National
19	Analysis of Voltage Stability Indices for Radial Distribution Systems	I-manager's journal of Electrical Engineering	ISSN:0973-8835	-	National
20	Vector Based Load flow technique for Balanced and Unbalanced radial distribution Networks	I-manager's journal of Electrical Engineering	ISSN 2088-8708	-	National
21	A Particle Swarm Optimization for optimal capacitor placement in Un-Balanced radial distribution system	I-manager's journal of Electrical Engineering	ISSN 2231-1963	-	National

5.8. Papers presented at National / International Journals: 14

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Sepic Converter fed BLDC Drive with Closed Loop Speed Control	IEEE International Conference on Signal Processing, Communication, Power and Embedded System(SCOPES-2016)	International Conference	Centurion University of Technology and Management, on 3 rd -5 th October 2016, Odisha, India (ISSN:2278-0181).
2	Environmental Sustainability in Hydrothermal System Using ABC Algorithm: A Statistical Comparison	12 th IEEE India International Conference (INDICON 2015) on Electronics, Energy, Environment Communication, Computer, Control (E ³ -C ³)	International Conference	Organized by Department of Electrical Engineering, Jamia Millia Islamia, New Delhi, India
3	Fuzzy Control Based APF with DG Integration for Power Quality Improvement	IEEE International Conference on Signal Processing, Communication, Power	International Conference	Centurion University of Technology and Management, on

	in Distribution System	and Embedded System(SCOPES-2016)		3 rd -5 th October 2016, Odisha, India (ISSN:2278-0181).
4	RES Fed High Gain DC-DC Converter with Closed Loop Control for Induction Motor Drive	IEEE International Conference on Signal Processing, Communication, Power and Embedded System(SCOPES-2016)	International Conference	Centurion University of Technology and Management, on 3 rd -5 th October 2016, Odisha, India (ISSN:2278-0181).
5	Optimal Placement of SPV based DG for Loss Reduction in RDSsystem Using DSA	International Conference on Emerging Trends in Engineering, Technology and Science(ICETETS-2015), 2 nd - 4 th April 2015	International Conference	Mall Reddy Institute of Engineering & Technology Secunderabad
6	Combined Energy Economic and Environmentally Conscious Operation of Hydrothermal Power System Using Artificial Bee Colony Algorithm	4 th International Conference on “Applied Sciences, Environmental Engineering and Clean Energy Technologies for Sustainable Development” (ASECET-2015)	International Conference	“KrishiSanskriti” on 1 st and 2 nd August, 2015 at Jawaharlal Nehru University, New Delhi, India.
7	Modelling and Speed Control of Linear Induction Motor	International Conference on Energy Efficient Technologies for Sustainability ,April 7 th -9 th 2014	International Conference	St.Xavier’s Catholic College of Engineering Nagarcoil, Tamilnadu
8	Optimal Capacitor Placement Analysis using Ant Cology Optimization	International Conference on Science, Technology and Management ICSTM-2013, August 16 th & 17 th 2013	International Conference	SITAMS CHITTOR
9	Analysis of Conductor Selection for Loss Reduction in RDS using DPSO	International Conference on Engineering, Technology and Management ICETM-July2013,	International Conference	WAIRCO Colombo SRILANKA
10	Method for Load Flow solution of Radial Distribution Systems	International Conference on MEMS and Optoelectronics Technologies ICMOT-2010	International Conference	Swarandhra College of Engineering & Technology Narasapur

11	Analysis of Radial Distribution Systems by Optimal Placement of DG using ACO	National Conference on Emerging Technologies in Electrical and Electronics Engineering (NCETEST-2013)	National Conference	Sri Vishnu Engineering College for women Bhimavaram, Andhra Pradesh
12	Design and Demonstration of Microcontroller based solar radiation Tracker for the efficient use of Photovoltaic Panels	National Conference on Emerging Trends in Engineering Science and Technology(NCETEST -2013)	National Conference	All Saints College of Technology Bhopal
13	A Power Flow Method for radial distribution systems	National Conference Govt Engineering college Salem, Tamilnadu. March 2006	National Conference	Government college of engineering SALEM Tamilnadu
14	Optimal capacitor Placement analysis using ant colony optimization	International Conference on Nano Science, Engineering & Advanced Computing ICNEAC-2011	International Conference	Swarandhra College of Engineering & Technology Narasapur

5.9. Sponsored research Projects: NIL

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects: NIL

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received:

- * Received **IET CLN Dr. A P J Abdul Kalam Inspiring Teacher Award** for the year 2014-15 on April 10th 2016 in Chennai.
- * Received **Best Teacher award “University Award to Meritorious Teachers-2009”** from Hon’ble Vice Chancellor “Sri Dr.AllamApparao” JNTU Kakinada.
- * **Associate Editor** for “International Journal of Conceptions on Electrical Engineering (IJCElecE)”, World Academic-Industry Research Collaboration Organization WAIRCO.

7. **Motto:** Motivate the students to get success in their life.