

Name: **Dr.D. RAVI KUMAR**
 Designation: Associate Professor
 Department: Electrical and Electronics Engineering
 Mail ID: ravikumar_d@vnrvjiet.in
 Experience (in years): Teaching: 9years Research: 7, Others (If any, Specify):



1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Tech- JNTU Hyderabad	2006	Electrical and Electronics Engineering
2	M.Tech -JNTU College of Engineering, Anantapur	2008	Electrical Power Systems
3	Ph.D -JNTU Anantapur	2017	Electrical Distribution Systems, Reliability Optimization

2. Teaching and Learning:

- 2.1 Teaching Interests: Circuit Theory, Power Systems -I, Power Systems-II, Network Analysis, Reliability Engineering and its Application to Power Systems, Principles of Electrical Engineering, Reliability Engineering, Power Systems Reliability
- 2.2 Novel Teaching & Learning Techniques adopted: WIT and WILL, PPT
- 2.3 Involvement in curriculum updating / Design: Involved in Design of Power System Courses

3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies: To conduct various activities for students to enhance their knowledge
- 3.2. CCA/ECA Organized: Nil
- 3.3. CCA/ECA participated: Involved in Career vision activities for First year B.Tech students
- 3.4. Counseling and Mentoring Activity: Mentoring students for regularity and to improve academic performance
- 3.5. Committees involved in:
 Department level: Nil
 Institute Level: Coordinator, AICTE, JNTUH

4. Conference / Workshop / Seminar / Guest Lectures:

- 4.1 Conducted: Conducted TEQIP sponsored workshop on "High Voltage Technologies" on 29th and 30th April 2013.
- 4.2 Attended:
- MATLAB three day workshop conducted during 26th to 28th May, 2014
 - Workshop on Simulation of Electrical Systems Using Mipower Software from 5th to 7th Jan 2015 at VNRVJIET.

5. Academic Contribution and Research & Consultancy:

- 5.1. Invited Lectures: Nil
- 5.2. Articles/Chapters published in Books:
- D. Ravi Kumar, K C Archana, G S Raju**, "Optimal operation of an Integrated Power Distribution System fed with Renewable Energy Sources, Diesel Generation and Battery storage," Springer International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT-2015), 20th to 21st Dec., 2015, SRIT, Ananthapuram published as Book chapter in **Scopus Indexed** Springer Book on "Lecture Notes in Electrical Engineering 394, Emerging Trends in Electrical,

Communications and Information Technologies, Proceedings of ICECIT-2015, ISSN: 18761100 ISBN: 978-981101538-0, pp. 425-432, doi:10.1007/978-981-10-1540-3_45.

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

5.4. Projects Guided:

a) UG: Optimal Capacitor placement in Electrical Distribution Systems

b) PG: Power loss reduction and Reliability optimization in Electrical Distribution Systems with Network Reconfiguration

5.5. Research Interests: Reliability Engineering and Applications to Power Systems, Deregulation, Reliability optimization of Distribution systems.

5.6. Ph.D students:

a) Enrolled: Nil

b) Submitted: Nil

c) Awarded: Nil

5.7. Papers published in reviewed Journals:

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ ISSN No.	Impact Factor/ Citation Index	National/ International
1	Optimal Allocation for Reliability analysis of Series Parallel system using Dynamic Programming	International Journal of Power System Operation and Energy Management, Vol. 3, Issue 2, 2013, pp. 12-16.	ISSN (PRINT): 2231-4407	-	International
2	Approximate System Reliability Analysis of Power System networks using Cutsets	i-manager's Journal on Power Systems Engineering, Vol.2, No.3, Aug -Oct 2014, pp.28-38	ISSN(PRINT) : 2321-7499	-	National
3	Active Power Loss Allocation among Generators and Loads in an Interconnected Integrated Energy System	International Journal of Control Theory and Applications, Vol.8, No.1, June 2015, pp. 381-395, Scopus Indexed.	ISSN(PRINT) : 0974-5572	SJR 0.1	International
4	Implementation of Network reconfiguration Algorithm in Electrical Distribution Systems	International Journal of Current Engineering and Scientific Research(IJCESR), Vol.2, Issue 5, 2015, pp. 50-54.	ISSN(PRINT): 2393-8374, ISSN(ONLINE):2394-0697,	IF:2.33	International

5	Loss Reduction and Reliability Optimization in Electrical Distribution Systems using Network Reconfiguration	The Journal of CPRI, Vol. 11, No. 2, June 2015 pp. 1-10.	ISSN (PRINT): 0973- 0338	-	National
6	Reactive Power compensation in power system using Evolutionary Algorithm	International Journal of Latest Research in Science and Technology (IJLRST), Vol. 4, Issue 4, July-Aug. 2015, pp. 110-113.	ISSN:2278-5299	IF:2.51	International
7	Approximate System Reliability analysis of Distribution Networks with repairable components and Common Cause Failures	i-manager's Journal on Electrical Engineering, Vol. 9, No. 3, Jan.-Mar. 2016, pp. 32-40.	ISSN (PRINT): 0973-8835, ISSN (ONLINE): 2230-7176	ICV 5.09,	National
8	Sensor less Control of PMSM with FOC using MRAS	IGST Journal of Automatic Control and System Engineering Journal, Volume 16, Issue 2, ICGST, Delaware, USA, December 2016, pp. 21-28.	ISSN 1687-4811, ISSN Online 1687-482X, ISSN CD-ROM 1687- 4838,	IF:1.253	International

5.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Fault Classification in Transmission System Using Wavelet Transform	National Conference on Technological Developments in Power Engineering, Vignan University, Vadlamudi, Guntur, A.P.,	National	August 17-18, 2012,
2	Design of Switched Mode Power Supply for Charging Batteries	International conference on Innovations in Electrical & Electronics Engineering, GNI, Hyderabad, ISBN: 978-93-82163-55-8	International	September 5, 2014

3	Blocking the Distance Relay Operation in Third Zone during Power Swing Using Polynomial Curve Fitting Method	IEEE International Conference on Smart Electric Grid 2014, K L University, Green Fields, Vaddeswaram, Guntur. Scopus Indexed	International	September 19, 2014
4	Approximate System Reliability analysis of systems with Catastrophic and Common Mode Failures.	Elsevier 38 th National System Conference on Real time systems: Modeling analysis and control, JNT University, Hyderabad, ISBN No.: 9789351072973	National	November 5-7, 2014
5	New Low Cost Passive Filter Configuration for Mitigating Bus Voltage Distortions in Distribution Systems.	2015 IEEE International Conference on Building Efficiency and Sustainable Technologies, Singapore, 2015, Scopus Indexed	International	August 31, September 1, 2015
6	Torque Ripple Minimization of a FOC fed PMSM with MRAS using Popov's Hyper stability criterion,	Springer International Conference on "Intelligent and Efficient Electrical Systems" (ICIEES'17), PSG CT, Coimbatore, Tamilnadu,	International	January 20-21, 2017

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1	Development of Optimization techniques for Protective devices and Distributed Generators allocation to optimize reliability and to reduce losses in Electrical Power Distribution Systems	UGC	2014-2016	4,95,000	Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
1.	Nil	Nil	Nil	Nil	Nil

6. Awards / Honors received: Nil

7. Motto: Discipline