

Curriculum Vitae

Name of the Faculty	Dr G NAVEEN KUMAR		
Designation	Professor		
Department	Electrical and Electronics Engineering		
Qualification with Class/Grade	UG: B.Tech (Electrical and Electronics Engineering) 1st Class		
	PG: M.Tech (Embedded Systems) 1st Class		
	PhD: JNTUH (Awarded in June-2015)		
PhD Specialization: (Field & University)	Field: Electrical Power Systems	University: JNTUH	
E-Mail	gutha26@gmail.com		
Total Experience in Years	Teaching: 15	Industry: 0	Research: 07
Papers Published	National: 02	International: 14	
Papers presented in Conferences	National: 08	International: 07	
Book Chapters	National: --	International: 04	
Scopus/SCI Indexed	SCOPUS Indexed : 08, SCI Indexed: 01		
Projects Guided	PhDs: 00	Projects at Masters Level: 10	
		Projects at UG Level: 20	
Books Published/IPRs/Patents	Books: 03; Patents Applied: 01 (Published)		
Professional Memberships	Life Member ISTE, Life Member-IAENG, Senior Member: ISRD		
Grants fetched	AICTE – Scheme for Promoting Interests, Creativity and Ethics among Students: 1,00,000 /- for 2021-2022 (Extended up to September)		

Any Other Achievements:

Faculty Development Programs/Workshops/Short Term Training Courses/Webinars Attended: 54

National Conferences/International Conferences Organized/Chaired: 05

Board of Studies Meetings Attended: 01

Faculty Development Programs/Workshops/Short Term Training Courses Organized: 03

List of Publications (Journal/Conference/Book):

Books:

1. Published a book titled “Hybrid Solar and Wind Power Generation Working Model”, Lambert Academic Publishers, Germany, ISBN: 978-620-0-30084-3.
2. Published a book titled “Investigation of Load Models in Load Stability using UPFC and CSO”, Lambert Academic Publishers, Germany, ISBN: 978-3-330-02097-9. **2 Citations**
3. Published a book titled “Power Transmission Network Security under Loaded Conditions”, GRIN Publishers, Munich, Germany, ISBN: 978-334-6-01823-6.

Book Chapters:

1. “AI Applications to Renewable Energy–An Analysis”, Smart Buildings Digitalization, Pages 283-292, CRC Press, Taylor and Francis. **SCOPUS Indexed**
2. “IoT-Based Smart Health Monitoring System”, Smart Buildings Digitalization, Pages 149-173, CRC Press, Taylor and Francis. **SCOPUS Indexed**
3. “Characterizing Voltage-Dependent Loads and Frequency-Dependent Loads for Load Stability Analysis”, Smart Buildings Digitalization, Pages 207-216, CRC Press, Taylor and Francis. **SCOPUS Indexed**
4. “Working and Analysis of an Electromagnet-Based DC V-Gate Magnet Motor for Electrical Applications”, Integrated Green Energy Solutions Volume 2, Pages 201-214, Scrivener Publishing, Wiley, **SCOPUS Indexed**

International Journals:

1. “Cat Swarm Optimization for optimal placement of multiple UPFC's in Voltage Stability Enhancement under Contingency”, International Journal of Electrical Power and Energy Systems, Elsevier, Volume 57, pages 97 – 104, May 2014. **SCI Indexed, SCOPUS Indexed, 70 Citations**
2. Eigen Value Techniques for Small Signal Stability Analysis in Power System Stability, Journal of Theoretical and Applied Information Technology, 6(2), pages 181-193. **SCOPUS Indexed, 13 Citations**
3. “Generator Outage Contingency Analysis of an Interconnected Power System Based on Time Domain Dynamic Simulation”, International Journal of Electrical Engineering (IJEE), Volume 4, Number 1 (2011), pages 1-12.
4. “Time domain dynamic simulation and Eigen value sensitivity analysis of an interconnected power system in MATLAB”, International Journal of Engineering Science and Technology (IJEST), Volume 3 Issue 2, pages 816-826.
5. “Optimal Placement of SVC and STATCOM for Voltage Stability Enhancement under Contingency using Cat Swarm Optimization”, IJAET, Vol. 5, Issue 1, pages 436-447, November 2012. **9 Citations**
6. “Static load modeling for voltage stability studies with optimal placement of UPFC using cat swarm optimization”, International Journal of Electrical and Electronics Engineering Research (IJEEER), Volume 4, Issue 1, February 2014, pages 35-46. **Google Scholar Indexed, 2 Citations**
7. “Dynamic Stability Improvement of Power System using Fuzzy Controlled Power System Stabilizer”, Transactions on Engineering and Sciences, Volume 2, Issue 4, pages 16 – 19.
8. “Dynamic Load Models for Voltage Stability Studies with a solution of UPFC using CSO”, International Journal of Computer Applications, Volume 116, Number 10, April 2015, pages 27-32. **Google Scholar Indexed, 2 Citations**
9. “Comparison of Series and Shunt FACTS Controllers for Voltage Stability in Wind Power Network”, International Journal of Computer Applications, Volume 125, Number 11, September 2015, pages 7-15. **Google Scholar Indexed, 2 Citations**

10. "Voltage Stability Analysis in Wind Power Network using SSSC and SVC", International Journal of Latest Research in Science and Technology, Volume 4, 2015, pages 84-92. **Google Scholar Indexed, 1 Citation**
11. "Application of Cat Swarm Optimization in testing Static Load Models for Voltage Stability", Mediterranean Journal of Modeling and Simulation, Volume 5, Issue 1, pages 1-16. **Google Scholar Indexed,**
12. "Design of a low cost Servo Controlled Voltage Stabilizer", International Journal of Research in Engineering and Technology, Volume 4, Issue 3, March 2016, pages 45-48. **Google Scholar Indexed, 4 Citations**
13. "Series connected FACTS controllers with Cat Swarm Intelligence for Voltage Stability in Wind Power Networks", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 5, Issue 3, March 2016, pages 1577-1584. **Google Scholar Indexed**
14. T. Anvitha, D. Ravi Kumar and G. Naveen Kumar, 2018, "Power Quality Improvement in Micro-grid with Fuzzy Based UPQC", International Journal of Electrical Engineering & Technology (IJEET). Volume:9, Issue 3, Pages 29-37.

National Journals:

1. "Voltage Stability Analysis for line outage contingency using Cat Swarm Optimization for placing multiple TCSCs", i-manager's Journal on Electrical Engineering, Volume 8, Number 2, Pages 14-20. **Google Scholar Indexed**
2. "Comparison of Advanced State Estimation Techniques for optimal placement solution of PMU's in interconnected power networks", i-manager's Journal on Electrical Engineering, Volume 7, Number 2, Pages 1-7. **Google Scholar Indexed**

International Conferences:

1. "Reactive Power Compensation for Large Disturbance Voltage Stability using FACTS controllers", IEEE International conference, ICECT-2011, April 8-10, Kanya Kumari. **IEEE Xplore, SCOPUS Indexed, 12 Citations**
2. "CPF, TDS based Voltage Stability Analysis using Series, Shunt and Series-Shunt FACTS controllers for Line Outage Contingency", ICPS-2011, December 22-24, IIT Madras, India. **IEEE Xplore, SCOPUS Indexed, 9 Citations**
3. "CPF, TDS based Voltage Stability Analysis using Series, Shunt and Series-Shunt FACTS controllers for Generator Outage Contingency", IPMHVC-2012, San Diego, CA, June 3-7, 2012.
4. "Implementation and comparison of state estimation techniques for optimal placements of PMUs in interconnected power networks", International conference on Recent Trends in Power, control and Instrumentation Engineering – PCIE, Hyderabad, 08-09, November 2013. **SCOPUS Indexed IET Digital Library, 3 Citations**
5. "Nucleus USB for Embedded Systems", International Conference on Advanced Technologies in Telecommunication and Control Engineering (ATTCE 2006) in INTI College, Malaysia, June 2006.
6. "Digital Techniques for TRIAC control with a 16-bit Microcontroller", International Conference on Advanced Technologies in Telecommunication and Control Engineering (ATTCE 2006) in INTI College, Malaysia, June 2006.
7. "Comparison of Voltage Dependant Load and Frequency Dependant Load for Load Stability Analysis", AI and ML Applications in Smart Buildings – AMSB-2020, VIT University, Chennai, 23rd and 24th July 2020.

National Conferences:

1. "Optimal Placement of multiple SSSCs with Cat Swarm Optimization under Line Outage Contingency", National Conference on High Voltage Engineering, JNTUH, 19th and 20th June, 2015.

2. "Voltage Stability Analysis using Voltage Dependent Load Model", 2nd National Conference on Emerging Trends in Electrical Technology, 22nd February 2017.
3. "Testing Polynomial Load for Voltage Stability", 2nd National Conference on Emerging Trends in Electrical Technology, 22nd February 2017.
4. "Solar-Wind Hybrid Power Generation", 4thNational Conference on Emerging Trends in Electrical Technology, IJRAR, Volume 6 Issue 1, March 2019.
5. "Effective Voltage Regulator for Domestic Loads", 4th National Conference on Emerging Trends in Electrical Technology, IJRAR, Volume 6 Issue 1, March 2019.
6. "Oscillating Water Column as Clean Energy Source for sustainable Power Generation", SGPCPS-2023, Vellore Institute of Technology, Chennai, March 10th, 2023.
7. "Fault over-ride and Minimization of Losses in a PV Integrated Transmission Network using STATCOM", SGPCPS-2023, Vellore Institute of Technology, Chennai, March 10th, 2023.
8. "Economically Viable Solar-Wind Hybrid Power Generation System for small and medium scale applications", SGPCPS-2023, Vellore Institute of Technology, Chennai, March 10th, 2023.

GOOGLE SCHOLAR CITATIONS

Total Citations	h-index	i10-index
129	5	3