

Name:Dr. T.Nireekshana

Designation: Associate Professor

Department: EEE

Mail I'd: nireekshana_t@vnrvjiet.in



Experience (in years): 13 Teaching: 13 Research: 9 Others (if any, specify):
Nil

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Tech in NIMRA College of Engineering and Technology, Vijayawada	2002	Electrical and Electronics Engineering
2	M.Tech in JNTU College of Engineering, Kakainada	2005	Advanced Power Systems
3	Ph.D in JNTU College of Engineering, Kakainada	2015	Deregulated Power Systems

2. Teaching and Learning:

2.1. Teaching Interests: Power Systems

2.2. Novel Teaching & Learning Techniques adopted: WIT and WILL, POGIL activity

2.3. Involvement in curriculum updating / Design: M. Tech (Power Systems) Syllabus

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies: Nil

3.2. CCA/ECA Organized: Nil

3.3. CCA/ECA participated: Nil

3.4. Counseling and Mentoring Activity: Mentor for 30 students

3.5. Committees involved in:

Department level:

- Coordinator, M.Tech Power System
- Member, Project Review Committee, M.Tech (Power System)
- Member, BOS (EEE)
- Coordinator, PG Mini projects
- Member, Academic Committee

Institute Level: Discipline committee

4. Conference / Workshop / Seminar / Guest Lectures :

4.1 Conducted: 3

4.2 Attended: 34

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: 2

5.2. Articles/Chapters published in Books: Nil

5.3. Books published as single author or as editor: 01

5.4. Projects Guided:

a) UG: 13

b) PG: 10

- Remote Controlled Induction Motor Using Microcontroller
- Comparative Analysis of Non-Gradient Optimization Methods to Minimize The Power System Loss
- Locational Marginal Pricing (LMP) Calculation in Deregulation
- Active Power Loss Allocation among Generation in An Interconnected Integrated Energy System
- Transmission Congestion Management by Determining Optimal Location Of FACTS Devices In Deregulated Power Systems
- Enhancement Of Static Available Transmission Capacity Of Interconnected Power Systems Using Power Angle Controller
- Enrichment of ATC using TCSC
- Congestion Relief by using generation rescheduling
- Congestion Relief in Distribution Systems

5.5. Research Interests:Power Systems Operation, Deregulated Power Systems, ATC.

5.6. Ph.D students:

a) Enrolled: Not Applicable

b) Submitted: Not Applicable

c) Awarded: Not Applicable

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	Enhancement of ATC in Deregulation based on Continuation Power Flow with FACTS Devices using Real-code Genetic Algorithm	International Journal of Electrical Power and Energy Systems (IJEPES), Elsevier	ISSN: 0142-0615 DOI: 10.1016/j.ijepes.2012.06.041 Vol. 43, Issue 1, pg: 1276-1284	3.111 / Scopus/ 28 Citations	International
2	Available Transfer Capability Enhancement with FACTS Using Cat Swarm Optimization (2016) 7, 159–167	Ain Shams Engineering Journal, Elsevier (ASEJ-D-15-00515)	ISSN: 2090-4479	SNIP :0.912	International
3	Available Transfer Capability Enhancement with	International Journal of Computer	ISSN: 0975 – 8887	1.715	International

	Load Rescheduling Using Cat Swarm Optimization	Applications (IJCA)			
4	Enrichment of Available Transfer Capability Using TCSC Vol. 5, Issue 4, Aug 2015, 15-22	International Journal of Electrical and Electronics Engineering Research (IJEEER), TJPRC	ISSN: 2278-943X	6.2879	International
5	Contribution Factors for tracing Electricity among generators to loads Vol. 27, No:4, Sept. 2015	International journal of Engineering Trends and Technologies (IJETT)	ISSN: 2231-5381	1.795	International
6	Congestion Mitigation based on Generator Sensitivities in Deregulation Volume 1, Issue 1, March, 2013	International Journal of Emerging Trends in Electrical and Electronics (IJETEE)	ISSN: 2320-9569	3.84	International
7	Application of Newton-Based OPF in Deregulated Power Systems	International Journal of Advances in Engineering & Technology (IAET)	ISSN: 2231-1963	1.56	International
8	Locational Marginal Pricing Calculation with Rescheduling of Generation in Deregulation	International Journal of Engineering Research and Development (IJERD)	ISSN: 2278-067X Vol 1, Issue 5, pg:61-68, June, 2012	1.458	International
9	Probabilistic Locational Marginal Pricing in Deregulated Power System	International Journal of Engineering and Techno science (IJETS)	ISSN: 2227-5241	0.836	International
10	Modeling and Control Design of Unified Power Flow Controller for Various Control Strategies	International Journal of Engineering Science and Technology (IJEST)	ISSN: 0975-5462 Vol. 2(11) Jan, 2010, pg: 6293-6307	1.794	International h index :4
11	ATC Enhancement with Load Models- A Comprehensive Evaluation Using FACTS	International Journal of Innovative Research in Advanced Engineering	ISSN : 2349-2163 Vol. 2, Issue 2, 2015, Pg: 28-36	2.179	International

		(IJIRAE)			
12	Enhancement of Static Available Transmission Capacity of Interconnected Power Systems Using Power Angle controller	International Journal of Eminent Engineering Technologies	ISSN: 1793-8236 Vol 2, Issue 2, 2015 Pg: 38-44	0.6	International
13	Uniform Price Electricity Market Model in deregulated Power System	Indian Journal of Applied Research (IJAR)	ISSN: 2249 – 5556 Vol. 1, No. 3, Pg: 13-18, Jan-March, 2008	3.62	International
14	Novel Method for line-load Alleviation in Deregulated Power Systems	i-Managers Journal of Electrical Engineering	ISSN: 2230-7176	5.607	International
15	Congestion Alleviation using Reactive Power Compensation in Radial Distribution Systems	IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE)	e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 11, Issue 6 Ver. III (Nov. – Dec. 2016), PP 39-45	3.26	International
16	Congestion Mitigation in Deregulation by Generation Rescheduling	Electric Power Components and Systems (Taylor and Francis)			International (Under Review)

5.8. Papers presented at National / International Journals:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1.	Enrichment of Available Transfer Capability Using TCSC	IEEE International Conference on Power, Control, Communication and Computational Technologies for Sustainable Growth (PCCCTSG-2015)	International	11th – 12th December 2015 at G. Pulla Reddy college of Engineering
2.	Available Transfer Capability Enhancement with TCSC using Modified GA Approach in Deregulated	3rd International Conference on Recent Trends in Power Control and Instrumentation Engineering PCIE-2015	International	26th December, 2015 at Kerala

	Power Systems			
3	Available Transfer Capability Enhancement using Cat Swarm Optimization	International Conference on Control, Communication and Power Engineering (CCPE-2013), Elsevier	International	April 26th & 27th 2013 at Bangalore.
4.	Incorporation of Unified Power Flow Controller Model for Optimal Placement using Particle Swarm Optimization Technique	IEEE 3rd International Conference on Electronics Computer Technology (ICECT 2011) Vol. 1. Pg: 209-214	International	April 8th to 10th , 2011 E-ISBN:978-1-4244-8679-3 Print ISBN:978-1-4244-8678-6
5.	Stability Constrained ATC Calculation with Contingency Analysis in Deregulated Power Systems	IEEE 3rd International Conference on Electronics Computer Technology (ICECT 2011) Vol. 1, Pg: 197-202	International	April 8th to 10th , 2011 E-ISBN: 978-1-4244-8679-3 Print ISBN:978-1-4244-8678-6
6	Available Transfer Capability Enhancement with Load Rescheduling Using Cat Swarm Optimization	National Conference on Advancements in Alternate Energy Resources for Rural Applications (AERA-2015)	International	28 th August, 2015 Pg: 80-85
7.	Optimal Dispatch using FACTS Devices in Restructured Power System with Congestion Management	International Conference on Electrical Power and Energy Systems - ICEPES 2010	International	Aug 26-28, 2010
8.	Congestion Relief Using UPFC in Deregulated Power Systems	National Conference – PST 2010	National	28th & 29th June
9.	Fuzzy Logic based Congestion Management in Deregulated Power Systems	Proceeding of the NCRAEE-07	National	March 9 – 10, 2007

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
	-----	-----	-----	-----	-----

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
	-----	-----	-----	-----	-----

6. Awards / Honors received: Young Research Award inSMART SUMMIT-2016 from Pearl Foundation_Kamaraju University, Madhurai

7. Motto: "Do your best, and God will take care of the rest."