

Name		Dr.C.Padmanabha Raju		
	Designation			
	Professor in Electrical & Electronics Engineering			
	Head for Department of Freshman Engineering			
	Residential Address			
	#49-4-12/4C, Raga Nilayamu Gunadala Vantena Vijayawada – 520004 Krishna Dt., Andhra Pradesh India			
	Office Address			
	Department of Electrical & Electronics Engineering			
	P.V.P.Siddhartha Institute of Technology			
	Kanuru, Vijayawada – 520007			
	Krishna Dt., Andhra Pradesh India			
	Tel No.: +91 9246400881(M) : +91 8662452282(R)			
	Email ID: pnraju78@yahoo.com pnraju1@rediffmail.com			
	Date of Birth		19 th August 1978	
	Educational Qualification	Name of the Exam	Board/University	Division/Class
		10 th class (S.S.C)	Board of Secondary Education, Andhra Pradesh	First Class
10+2 (Intermediate)		Board of Intermediate Education, Andhra Pradesh	First Class	
Bachelor of Engineering (Electrical & Electronics Engineering)		University of Madras, Chennai	First Class	
Master of Technology (Electrical Power Systems)		University college of Engineering, Anantapur (affiliated to JNTU, Hyderabad)	First Class with Distinction	
Ph.D. (Power Systems)		JNT University Kakinada		

Specialization	Power Systems		
Research Areas	➤ Optimal operation and control of power systems ➤ Optimal power flow ➤ FACTS ➤ Power system security ➤ Optimal operation of power system with wind and solar systems ➤ Optimal operation of smart grids ➤ Application of single/multi objective heuristic optimization methods to power system operation and control		
Teaching Experience	Employer	Designation	From
	To		
	P.V.P.Siddhartha Institute of Technology, Vijayawada	Professor	17 March 2011
	P.V.P.Siddhartha Institute of Technology, Vijayawada	Associate Professor	20 June 2006
	Sri Sarathi Institute of Institute of Engg. & Technology, Nuzvid	Assistant Professor	1 Feb 2001
Research Experience	V.K.R & V.N.B Polytechnic, Gudiwada	Associate Lecturer	23 Sept 2000
			31 Jan 2001
Research Experience	Research	Title of thesis/work	Institute/University where the work was carried out & research supervisor(s)
	M.Tech.	Thyristor Controlled Series Compensation scheme for the power flow control of power networks	University College of Engineering, Anantapur, Dr.Ch.Saibabu, Professor, EE Dept., JNTUK
	Ph.D.	Security Enhancement and Loss Reduction by Series FACTS Devices in Regulated and Deregulated Power Systems.	JNT University Kakinada, Kakinada Dr.S.Sivanagaraju, Professor, EE Dept., JNTUK & AU College of Engineering, Andhra University, Visakhapatnam Dr.K.Vaisakh, Professor, EE Dept., AUCE, Visakhapatnam

Publications	Journals			Conferences		
	International	National	Total	International	National	Total
	15	0	15	4	7	11
Administrative Experience	➤ Presently Head, Department of Freshman Engineering at P.V.P.Siddhartha Institute of Technology (P.V.P.S.I.T.) ➤ Presently Chairman, Disciplinary and Anti-ragging Committee, P.V.P.S.I.T. ➤ Presently In-Charge of Student Projects, UG&PG, EEE Dept., P.V.P.S.I.T. ➤ Presently In-Charge of Power Systems Lab, P.V.P.S.I.T. ➤ Experience in NBA-AICTE accreditation process ➤ Worked as Chairman, Anti-Ragging Squad at P.V.P.S.I.T. ➤ Worked as In-Charge Exam section, EEE Dept., P.V.P.S.I.T. ➤ Worked as Editor, SIEN News (A Quarterly News Letter of Sri Sarathi Institute of Engineering & Technology (SSIET)) ➤ Worked as Faculty Advisor, ISTE Local Chapter-SSIET. ➤ Worked as In-Charge of Examination Section at SSIET. ➤ Worked as a member in college disciplinary committee at SSIET.					
Subjects Taught/Teaching	B.Tech. Courses: ❖ Network Theory (Electrical Circuits) ❖ Electrical Technology ❖ Electrical Measurements ❖ Power Generation ❖ Transmission & Distribution ❖ Switchgear & Protection ❖ Power Electronics ❖ Microprocessors & Microcontrollers ❖ Instrumentation ❖ Modeling of Power system Components ❖ Computer methods in power systems ❖ Power system analysis ❖ Power system operation and control ❖ Power semiconductor drives M.Tech. Courses: ❖ Power System Operation and Control ❖ Reactive Power Compensation and Management ❖ Flexible AC Transmission Systems ❖ Power System Deregulation					

Laboratories handled/handling	❖ Electrical Circuits Lab ❖ Electrical Technology Lab ❖ Control Systems Lab ❖ Power Electronics Lab ❖ Microprocessors & Microcontrollers Lab ❖ Simulation Lab ❖ Power Systems Lab (P.G.Level)		
Supervision & Guidance		Complete	Ongoing
	B.Tech.	19	01
	M.Tech.	07	01
	Ph.D.	00	02
Book Published	Single author book titled “Switchgear and Protection” published by Golden Era Publishers, Vijayawada		
Keynote address, guest lectures, conference chair & judge for paper presentation contests	➤ Delivered a keynote address in “Sarathi Tech Fest 2K14” organized by Sri Sarathi Institute of Engineering & Technology, Nuzvid, Krishna Dt. on 9th April 2014. ➤ Acted as judge for a technical paper presentation contest which is organized as a part of “MVR Technotsav 2K14” held on 21st March 2014 organized by MVR College of Engineering & Technology, Paritala, Krishna Dt. ➤ Delivered a keynote address and chaired the session in a National level conference on “Challenges and Approaches in Practical implementation of Microgrids” organized by Grandhi Varalakshmi Venkatarao Institute of Technology, Bhimavaram, W.G.Dt. on 8th February 2014. ➤ Acted as judge for the technical paper contest conducted as part of GECFEST’13 organized by Gudlavalleru Engineering College, Gudlavalleru on 1st March 2013. ➤ Delivered a keynote address and chaired the morning session in a National conference on “Advances in Energy and Power Control Engineering” conducted by Vignan Lara Institute of Technology & Science, Vadlamudi, Guntur Dt. on 14th December 2012. ➤ Chaired the session in the National conference on “Emerging trends in Electrical Engineering & Communication (ETEC-2012)” on 4th February 2012 organized by St. Ann’s College of Engineering & Technology, Chirala, Ongole Dt. ➤ Delivered a lecture on “Simulation of Electrical Power Systems using MATLAB” in a two day short term course on “Simulation of Electrical Power System Networks on MATLAB environment” conducted by Kottam Tulasi Reddy Memorial College of Engineering, Kondair, Mahaboob Nagar Dt. on 17th July 2011. ➤ Acted as resource person and delivered a lecture on “Challenges		

	in Deregulated Power Systems” in an AICTE sponsored five day workshop on “Recent Trends in Electrical Engineering” organized by Paladugu Parvathi Devi College of Engineering & Technology, Nunna, Krishna Dt. on 7th July 2011 ➤ Acted as judge in a “National level technical Symposium – TECHNOSCET2K10” organized by Swarandhra College of Engineering & Technology, Narsapur, W.G.Dt. on 15th September 2010.
Conferences, Workshops & other events Organized	➤ Organized a National level conference on “Communication Skills for Academic Excellence and Career Development” as Convener on 28th March 2014. ➤ Organized an event “A Tribute to Sir Srinivasa Ramanujan” as convener on 22nd December 2012. ➤ Organized National level workshop on “Matlab Applications to Power Systems and Power Electronics” as Coordinator from 15th to 18th June 2011. ➤ Organized National level workshop on “Matlab and its Applications” as Coordinator on 29th & 30th July, 2009. ➤ Organized National level student paper presentation contest “GRID- 2K7” as convener. ➤ Worked as Convener for State Level Mini Project Exhibition and College Day Celebrations (CEET-2K4) held at SSIET in March 2004. ➤ Worked as Co-Convener for National Level Technical paper presentation contest (ACME-2K6) held at SSIET in March 2006.
Workshops Attended	➤ Three day Faculty Leadership Institute (FLI) 2012 on “Proven Strategies for Effective Teaching” conducted by University College of Engineering, JNTUK, Kakinada during 5th – 7th January 2012. ➤ One week workshop on “Teaching with MATLAB and its applications” conducted by Indo-US Collaboration for Engineering Education, held at Infosys campus, Mysore, 22nd to 29th June 2009. ➤ One week workshop on “Quality assurance and Accreditation Process in Engineering colleges” held at National Institute for Technical Teachers Training & Research, Chandigarh, 3rd to 7th March 2009. ➤ Short term course on application of Soft computing techniques to power system operation and control (ASCT-2007) held at A.U.College of Engineering, Visakhapatnam, 25-27th October, 2007 ➤ Two-Day Workshop on Advances in power components and systems held at Lakireddy Balireddy College of Engg., Mylavaram, 7-8th September, 2007. ➤ Three Day short term course on Power System optimization

techniques in the presence of FACTS devices held at A.U.College of Engineering, Visakhapatnam, March, 2007

- One day Faculty Development Program on Brain Train for Effective Teaching held at P.V.P.Siddhartha Inst. Of Tech., Vijayawada, 7th January,2007.
- Simulation of Electrical Systems (WSES-06) held at KITS, Warangal, January 2006.
- Distribution & Automation Recent Trends (DART-05) held at JNTUCE, Anantapur, October 2005.

Memberships of learned societies

Member in Indian Society for Technical Education

List of Publications

Journals

J1) “An Approach to place TCSC optimally for improved power transfer capability” Journal on Electrical Engineering [ISSN-0973-8835], Vol.1, No.1, July-September 2007, i-manager’s publications, India, pp.10-12, Impact factor: 0.479, Index Copernicus (ICV):5.09

<http://www.imanagerpublications.com/Archives.aspx>

J2) “Security enhancement with hybrid OPF method using FACTS devices for deregulated power networks” Journal on Electrical Engineering [ISSN-0973-8835], Vol.3, No.2, October-December 2009, i-manager’s publications, India, pp.49-58, Impact factor: 0.479, Index Copernicus (ICV):5.09

<http://www.imanagerpublications.com/Archives.aspx>

J3) “Static Contingency screening and ranking using fuzzy logic” Journal on Electrical Engineering [ISSN-0973-8835], Vol.3, No.2, October-December 2009, i-manager’s publications, India, pp.40-48, Impact factor: 0.479, Index Copernicus (ICV):5.09

<http://www.imanagerpublications.com/Archives.aspx>

J4) “An IPM-EP SO based hybrid method for security enhancement using SSSC” International journal of recent trends in engineering [ISSN- 1797-9617], Academy Publishers, Finland, Volume 2, No.5, November, 2009, pp.208-212,Impact factor: 0.76

<http://academypublisher.com/ijrte/vol02/no05/ijrte0205208212.pdf>

J5) “Power System Security Enhancement and Real Power Loss Reduction by IPM-EP SO Hybrid Method Based Solution of Optimal Power Flow Problem”, (ISSN 0975-458X), International Journal of Power System Optimization (International Science Press, India)(ISSN: 0975-458X), Volume 2, No.2, July-December 2010, pp.115-129

J6) “Power Flow Analysis of a Power System in the Presence of Interline Power Flow Controller (IPFC)”, ARPN Journal of Engineering and Applied Sciences (ISSN:1819-6608), Asian Research Publishing Network, India, Volume 5, No.10, October 2010, pp.1-

4, Impact Factor: 0.1097

http://www.arpnjournals.com/jeas/research_papers/rp_2010/jeas_1010_392.pdf

- J7) “Power System Security Enhancement Using Fuzzy Logic Composite Criteria and Particle Swarm Optimization Algorithm”, International Journal of Hybrid Intelligent Systems (ISSN 1448-5869), IOS Press, The Netherlands, Volume 7, No.3, 2010, pp.203-223, Impact factor: 0.64**

<http://iospress.metapress.com/content/m11h174072741827/>

- J8) “Multiline Power Flow Control using Interline Power Flow Controller (IPFC) in Power Transmission Systems”, International Journal of Electrical and Electronics Engineering (pISSN:2010-3964, eISSN:2010-3972), World Academy of Science, Engineering and Technology, USA, Volume 4, No.7, Autumn 2010, pp.492-496, Impact Factor: 0.1671**

<http://waset.org/publications/7855/multi-line-power-flow-control-using-interline-power-flow-controller-ipfc-in-power-transmission-systems>

- J9) “Constrained optimal power flow using Particle swarm optimization”, International Journal of Emerging Technology and Advanced Engineering (ISSN 2250-2459), Volume.2, Issue.2, February, 2012, pp.235-241, Impact factor: 0.489 (GIF)**

http://www.ijetae.com/files/Volume2Issue2/IJETAE_0212_39.pdf

- J10) “Static security analysis of power system networks using soft computing techniques”, International Journal of Advanced Computer Research (ISSN (print): 2249-7277 ISSN (online): 2277-7970), The ACCENTS, Volume.2, Number.4, Issue.6, December-2012, pp.294-299, Impact factor: 1.863**

<http://www.theaccents.org/ijacr/papers/conference/icett2012/52.pdf>

- J11) “A Solution to Unit Commitment Problem via Dynamic Programming and Particle Swarm Optimization”, International Journal of Current Engineering and Technology (published by INPRESSCO-USA) (ISSN: 2277-4106), Volume.3, Issue.4, October-2013, pp.1495-1503, Impact factor: 2.552 (GIF), ICV: 4.94**

<http://inpressco.com/wp-content/uploads/2013/10/Paper621495-1503.pdf>

- J12) “Enhancement of Power System Security by Particle Swarm Optimization Based Optimal Power Flow”, International Journal of Scientific & Engineering Research (ISSN: 2229-5518), Volume.5, Issue.1, January 2014, pp.545-551, Impact factor:1.4 (Cite Factor),0.4510(JIF), ICV:5.27**

<http://www.ijser.org/onlineResearchPaperViewer.aspx?Enhancement-of-Power-System-Security-by-Particle-Swarm.pdf>

- J13) “A study of series FACTS devices for the control of power flow in electrical power networks”, International Journal of Innovation and applied studies (ISSN:2028-9324), Volume.5, No.3, March 2014, pp.269-279, Impact factor:0.449 (GIF), ICV:6.87**

<http://www.issr-journals.org/xplore/ijias/IJIAS-13-294-22.pdf>

- J14) “Hybrid Particle Swarm Optimization Technique For Optimal Power Flow”, International Journal of Scientific & Engineering Research (ISSN: 2229-5518), Volume.5, Issue.3, March 2014, pp.75-82, Impact factor:1.4 (Cite Factor),0.4510(JIF), ICV:5.27**

<http://www.ijser.org/onlineResearchPaperViewer.aspx?Hybrid-Particle-Swarm-Optimization-Technique-For-Optimal-Power-Flow.pdf>

J15) “Line Loadability Improvement by using TCSE under Network Contingencies”, International Journal of Scientific & Engineering Research (ISSN: 2229-5518), Volume.5, Issue.3, March 2014, pp.93-97, Impact factor:1.4 (Cite Factor),0.4510(JIF), ICV:5.27

<http://www.ijser.org/onlineResearchPaperViewer.aspx?Line-Loadability-Improvement-by-using-TCSC-under-Network-Contingencies.pdf>

International Conferences

IC1) “An Approach for Power system islanding to avoid blackouts” presented in the proceedings of “International Conference on Modeling and Simulation” conducted by Coimbatore Institute of Technology, Coimbatore, August 2007.

IC2) “Incorporation of Flexible AC Transmission System (FACTS) Devices Unified Power Flow Controller – UPFC in Load Flow Studies”, International Conference on Power System Analysis, Control and Optimization, AU College of Engineering, Andhra University, Visakhapatnam, 13th – 15th March 2008

IC3) “A solution to unit commitment problem using particle swarm optimization”, IEEE workshop on Computational Intelligence: Theories, Applications and Future Directions, July 2013 held at Indian Institute of Technology, Kanpur, India.

<http://www.iitk.ac.in/ee/archive/courses/2013/ci/Workshop-Proceedings/SELECTED%20PAPERS/AbstractID130428-10.pdf>

IC4) “Power flow control and power flow studies with series FACTS devices”, IEEE workshop on Computational Intelligence: Theories, Applications and Future Directions, July 2013 held at Indian Institute of Technology, Kanpur, India.

<http://iitk.ac.in/ee/archive/courses/2013/ci/Workshop-Proceedings/SELECTED%20PAPERS/AbstractID130428-09.pdf>

National Conferences

NC1) “Thyristor controlled series compensation scheme for power flow control of power systems”, National Level Conference held at JNTUCE, Anantapur, December 2005.

NC2) “Power Flow Analysis of a Power System using simplified Newton-Raphson method” National conference held at JNTUCE, Anantapur, May 2008.

NC3) “IPM-EPSO based multi objective constrained optimal power flow solution using FACTS devices for deregulated power networks” National conference held at Sri Nidhi Institute of Science & Technology, Hyderabad, July 2009.

NC4) “Performance of evolutionary algorithms with particle swarm movements for multiple objectives under network contingencies” National conference held at Sri Nidhi Institute of Science & Technology, Hyderabad, July 2009.

NC5) “An IPM-EPSO based hybrid method for security enhancement using thyristor controlled phase shifter” National conference held at Vellore Institute of Technology,

Vellore, July 2009.

- NC6) “Comparison and application of EP and PSO algorithms for power system security enhancement” 2nd National Conference on Energy (MITSNCE 2009), Mody Institute of Technology and Science (Deemed University), Lakshmangarh, Sikar, Rajasthan during 30th October – 1st November 2009.**
- NC7) “A new IPM-EPSO based hybrid method for security enhancement using TCSC” Multi disciplinary national conference on advancing trends in engineering and management technologies (ATEMT-2009), Shri Ramdeobaba Kamala Nehru Engineering College, Nagpur during 20th -21st November 2009.**