

Name : DR. ANURADHA KOTAPATI
 Designation: Professor & Head
 Department: Electrical and Electronics Engineering
 Mail Id: Anuradha_k@vnrvjiet.in
 Experience (in years): Teaching: 19 Research: 12 Others (If any, Specify): -



1. Educational/ Technical Qualifications:

S. No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1.	Ph.D	2011	Electrical Engineering
2.	M.E	1997	Industrial Drives and Control
3.	B.E	1992	Electrical and Electronics Engineering

2. Teaching, Research, and Consultancy Profile

2.1 Teaching Interests

- Electrical Circuit Theory, Power Electronics, Power Semi Conductor Drives, Network Analysis, Electrical Machines, Micro Processors and Micro Controllers.

2.2 Novel Teaching & Learning Techniques adopted: Learning By Doing (LBD)

2.3 Involvement in curriculum updating / Design:

- As a BOS Chairman involved in UG & PG Curriculum Design and updation of Syllabus

3. Co-curricular and Extra-Curricular Activities

3.1 Interests and Hobbies:

- To promote healthy work environment which will help the Institute growth

3.2 CCA/ECA Organized:

- Acted as Judge in the successful conduct of technical events like Paper Presentations, Project Expos in various technical events (CORONA, CONVERGENCE, VECTOR) at VNRVJIET, and PRAGNA2k9 at JNTU, Kukatpally, Hyderabad.
- Conducted a Three-Day Workshop on “Simulation of Power Systems Using MiPower Software” for faculty and Research Scholars. Resource Persons are from PRDC, Bangalore, during 25.02.10 to 27.02.10. Venue: Simulation Laboratory, EEE Dept, VNR VJIET, Hyderabad.
- Conducted a Tutorial on “Smart Distribution Grids for Future-Challenges & Possible Solutions” by *Professor S.S. (Mani) Venkata*, Professor Emeritus & Chair , Iowa State University, Affiliate Professor, University of Washington on July 13, 2009. Venue: ‘B’ block seminar hall, EEE Dept., VNRVJIET.

3.3 CCA/ECA Participated:

- Involved in various seminar activities for B.Tech and M.Tech students.

3.4 Counseling and Mentoring Activity:

- Actively involved in counseling and mentoring the students
- Mentor for 8 students of I, II & III-B.Tech
- Mentor for 6 students for IV-B.Tech

3.5. Committees involved in:

Department level:

- Chairman, BOS, EEE Dept.
- DAC, PAC, DDC, ASP

Institute Level:

- Dean, Academics
- Member, Academic Council
- Member, Institute Academic Committee

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:

- Conducted a One Week National Workshop on Emerging Trends in Power Electronics & Power Systems during 16th to 20th May, 2016 under Teqip-II.
- Conducted a Three Day Workshop on MATLAB (Simulink/Programming) during 26th to 28th May, 2014 under TEQIP-II.
- Conducted a Two Day Workshop on “High Voltage Technology” during 29th & 30th April, 2013 under TEQIP-II.
- Conducted AICTE Sponsored Staff Development Program (SDP) on “Modern Control Techniques for Power Systems MCTPS-2012” during 18th to 30th June, 2012.
- Conducted a two-day Workshop on “Neural Networks and Fuzzy Logic:(From Fundamentals to Advanced Applications)” by Dr.Madan M Gupta, Professor Emeritus, Distinguished Chair, University of Saskatchewan, Canada on 27th February, 2012
- Conducted AICTE Sponsored 2-day National Conference on “National Economy and Social Transformation through Advances in Electrical Engineering (NEST-AEE-2011)” during 29-30, August. 2011.
- Conducted a two-day Workshop on “Modeling and Control of Electrical Machines” for faculty of various Engineering Colleges during 28th & 29th January, 2011.
- Conducted Guest Lecture on “Real Time Ratings Application in Transmission Networks” by Dr.Ch.Sudhakar, Team Leader-Transmission Cable (Design), British Columbia Hydro Power Corporation, Vancouver, Canada on 27th July, 2010.
- Conducted a Three-Day Workshop on “Simulation of Power Systems Using MiPower Software” for faculty and Research Scholars. Resource Persons are from PRDC, Bangalore, during 25.02.10 to 27.02.10. Venue: Simulation Laboratory, EEE Dept, VNR VJIET, Hyderabad.
- Conducted a Tutorial on “Smart Distribution Grids for Future-Challenges & Possible Solutions” by *Professor S.S.(Mani)Venkata*, Professor Emeritus & Chair , Iowa State University, Affiliate Professor, University of Washington on July 13, 2009. Venue: ‘B’ block seminar hall, EEE Dept., VNRVJIET.
- Conducted a one-day professional training programme on “Application of Digital Signal Processors for Induction Motor Speed Control” for Faculty and M.Tech. Students, on May 14, 2007 Venue: SES Laboratory, VNRVJIET.

4.2 Attended:

- Half Day Conference on Transformation in Engineering Education by Global Engineering Deans Council at Vardhaman College of Engg., Hyderabad on 07-01-2016.
- One Day Workshop on “Awareness Workshop on Outcome Based Education and Accreditation” at *IETE Seminar Hall, OU, Hyderabad & OUCE* on 18-12-2016.
- Half Day Workshop on “Mind Education Programme” at JNTU Hyderabad with TSCHE – International Youth Fellowship (IYF) on 20-04-2016.

- One Day TED Event “TEDxVNRVJIET” at VJIM, Hyderabad on 02-04-2016.
- One Day Training Program on “Evaluators/Resource Persons on Outcome Based Accreditation” at Osmania University, Hyderabad on 5th July, 2013.
- Three Day Workshop on “Art of Teaching” at VNRVJIET from 13th to 15th May, 2013.
- Half Day Tutorial on “Smart Grid Technology and Business Opportunities” by PES/IAS/PELS Hyderabad Chapter supported by FAPCCI, Hyderabad on 29th July, 2010
- Half Day Tutorial on “Development of Massive Wind Power Plants” by PES/IAS/PELS Hyderabad Chapter supported by FAPCCI, Hyderabad on 23rd Aug, 2010
- IEEE sponsored workshop on “Emerging trends in Application of Power Electronics to Drives”, IIT Kanpur, January 22-23,2003
- ISTE sponsored workshop on “Application of Power Electronics to Power Systems”, GVP, Visakhapatnam, December 12-16,2005
- A three day Workshop on Digital Signal Processor Applications to Electric Drives sponsored by TEQIP during 29th Feb – 2nd March 2008, NIT Warangal

5. Academic Contribution and Research & Consultancy:

5.1 Invited Lectures

1. Control of High Power Electric Drives” in Two Day National Seminar “Recent Innovative Trends in Electrical Motors and its Industrial Applications” on 20th Feb, 2014 / PVPSIT (Siddhartha), Vijayawada.
2. Flicker Mitigation in Electric Arc Furnaces using Cascaded Multilevel Converter based DSTATCOM” in Three Day Workshop on “Recent Trends in Power Electronics and Renewable Energy Sources” during 27th to 29th January, 2014 at Muffakham Jah College of Engineering & Technology, Hyderabad.
3. Power Quality Improvement using DSTATCOM” in AICTE Sponsored 3 day Workshop on Power System Dynamics on 30th January, 2014 at Sagar Institute of Technology, Hyderabad.
4. Flicker Mitigation in Electric Arc Furnaces Using DSTATCOM” on 19-06-2012 in the Two Weeks AICTE Sponsored SDP on “Modern Control Techniques for Power Systems” (MCTPS) during 18-06-12 to 30-06-12 in VNRVJIET.
5. Delivered an expert talk on “Inverters” in a three week (09-08-2010 to 28-08-2010) refresher course on “Advances in Power Electronics and Electric Drives” conducted by JNTUH-UGC ASC on 12-08-2010.
6. Delivered an expert lecture on “*DSTATCOM for Power Quality Improvement*” in the workshop on “Power Quality” organized by MJCET, Hyderabad on 31-08-2009.
7. Delivered a Guest lecture on “Power Electronics and its Applications” in SNIST, Hyderabad in Sep’ 2009.
8. Delivered an expert lecture on “Design, Controls and Applications of Multi Level Converters” in an AICTE sponsored Staff Development Programme at GRIET, Hyderabad on 14-05-2009.
9. Delivered an expert lecture on “Performance analysis of single phase and three phase AC to DC Converters” in an ISTE sponsored Staff Development Programme at JNTU, Hyderabad in November, 2008.
10. Guest lecture on “Application of Power Electronics in Electrical Engineering”, for Under Graduate students of Electrical and Electronics Engineering, SNIST, Hyderabad in February 2009.

11. Resource for the Short term course on “Power Electronics and Drives “Conducted at VNRVJIET in June, 2003.

5.2 Articles / Chapters published in Books: -

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

5.4. Projects Guided:

a) UG: 17

b) PG: 23

5.5. Research Interests: Power Electronics and Drives

5.6. Ph.D students:

a) Enrolled: 04

b) Submitted: -

c) Awarded: -

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	Analysis and Simulation of Solar PV Based Multi Level Converters	International Journal of Professional Engineering studies, Vol.4, pp.124-136			International
2	A fast-response sliding-mode controller for quadratic buck converter	International Journal of Power Electronics, Vol. 6, No. 2, pp.103-130			International
3	An efficient sliding-mode current controller with reduced flickering for quadratic buck converter used as LED lamp driver	International Journal of Power Electronics, Vol.6, No.4, pp.345 – 375			International
4	Spectral analysis of Inverter Output Voltage waveform using different PWM techniques				National

5.8. Papers presented at National / International Conferences:

S. No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1.	DC Level Stabilization in Multilevel Inverters	Emerging Trends in Electrical Systems and	International	3-4, July 2015

		Engineering		
2.	Performance Analysis of Inverter Fed Induction Motor with Minimum Settling Time Control	IEEE International Conference on "Power Electronics, Drives and Energy Systems (PEDES-2012)	International	16-19, December, 2012
3.	Voltage flicker mitigation by DSTATCOM for voltage source Arc furnace model	IEEE-Recent Advances in Intelligent Computational Systems (RAICS)2011	International	22-24 Sept. 2011
4.	Control of Cascaded H-Bridge Converter based DSTATCOM for High Power Applications	ICPS	International	
5.	Electric Arc Furnace Modeling and Voltage Flicker mitigation by DSTATCOM		International	December 8-12, 2008
6.	Control of Cascaded H-Bridge Converter based DSTATCOM for High Power Applications	PEDES	International	December 8-10, 2006
7.	Novel Control Strategy for Cascaded H-Bridge Converter based DSTATCOM	ICIIS	International	August, 2006
8.	Simulation of Cascaded H-Bridge Converter based DSTATCOM	ICIEA	International	May 23-24, 2006
9.	Control Techniques for Three Phase Active Front End Converter		International	
10.	Spectral analysis of Inverter Output Voltage waveform using different PWM techniques	Power Engineering and Industrial Drives	National	May 18-19,2012
11.	Control Techniques for Three Phase Active Front End Converter	NPSS-2012	National	3 rd & 4 th April, 2012
12.	Modeling of Electric ARC Furnace and control algorithms for voltage flicker mitigation using DSTATCOM	NPSC-2010	National	15,16 and 17 December, 2010
13.	Single Phase Active Front End Converter	Recent Innovations in Technology (NCRIT)	National	March 26-28, 2009
14.	A Single Phase Power Factor corrector with Boost Rectifier	Recent Developments and emerging trends in electrical engineering	National	November 21-23,2008
15.	Independent DC link Voltage	NPSC	National	December

	Controllers for Cascaded H-Bridge Converter based DSTATCOM			10-12, 2006
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5.9. Sponsored research Projects:

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

5.10 Consultancy Projects:

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

6. Awards / Honors received:

7. Motto: Work hard and get success