CURRICULUM VITAE

Name	:	**V.USHA REDDY**
Father's name	:	Dr V. C. Veera Reddy
Age and Date of Birth	:	33 Years/ 31-07-1982
Sex	:	Female
Marital Status	:	Married
Nationality	:	Indian
Religion	:	Hindu
Designation	:	Assistant Professor
Scale of Pay	:	15600-39100+AGP 6000
Specialization	:	Power System Operation and Control
Languages Known	:	Telugu, English, and Hindi
Official Address	:	Assistant Professor
		Department of Electrical & Electronics
		Engineering
		Sri Venkateswara University College of Engineering
		Tirupati- 517502, Andhra Pradesh, India.
Permanent Address	:	Flat No.513, Adithya Towers,
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ACADEMIC QUALIFICATIONS

Course	College/University	Year	% Marks
Ph. D.	JNTU College of Engineering,Hyderabad	Pursuing since 2008 (Part Time)	Submitted
M. Tech	SriVenkateswaraUniversityCollege of Engineering, Tirupati	2005-2007	78
B. Tech	SreeVidyani,kethanEngineeringCollege, Affiliated to JNTUH,Tirupati	1999-2003	74.63

PROJECT PROFILE

M. Tech Thesis   :   Sensor less BLDC Motor

B. Tech   :Design of Line Echo Canceller

POSTS HELD

Presently Working as Assistant Professor, Department of Electrical Engineering, Sri Venkateswara University College of Engineering, Tirupati, since 3rd July 2007.

TEACHING EXPERIENCE

Assistant Professor   -   8 years

COURSES OFFERED

U.G.Courses

- Electro Mechanical Energy Conversions-I
- Electrical Measurements
- Power System Analysis
- Power Systems-I
- Electrical Technology
- UNIX and MATLAB
- Computer Methods in Power System Analysis
- Electrical Machine Design
- Renewable Energy Sources

P.G.Courses

- Renewable Energy Sources
- Computer Methods in Power Systems
- Energy Auditing, Conservation and management
- Operation and Control of Interconnected Power systems

RESEARCH EXPERIENCE

Submitted Ph.D., under part-time basis under the guidance of **Dr. T.GowriManohar**, Associate Professor, Department of Electrical & Electronics Engineering, S.V.U. College of Engineering, Tirupati since July 2008 and working in the field of **"Loss Reduction in Distribution Systems"**.

Project Works Guided: 22

Conferences/Workshops Attended: 25

Short Courses/Summer/Winter Schools Attended: 06

Research Publications:

International Journal Publications: 31

Conference Publications: 06(International- 5, National- 1)

INTERNATIONAL JOURNAL PUBLICATIONS:

1. P.Manasa and **V.Usha Reddy**, "A PV based DG integrated SSSC with Fuzzy logic controller for Wide Area Power oscillation damping with communication delays", *International Journal of Advanced Technology and Innovative Research(IJATIR)*,Vol. 07, Issue 18, pp. 3543-3548,December 2015,ISSN: 2348-2370.

2. Ch. Silpa and **V.Usha Reddy**, "Power loss reduction in distribution systems using Autonomous Group Particle Swarm optimization algorithm", *International Advanced research Journal in Science, Engineering and Technology(IARJSET)*, Vol. 2, Issue 11, pp. 134-138, November 2015, ISSN 2393-8021.

3. K. Chandana, **V. Usha Reddy** and Dr T.Ramashri, " Novel image fusion technique using dual tree complex wavelet transform based Laplacian Pyramid decomposition", *International Journal of Engineering Research and Technology(IJERT)*,Vol. 4, Issue 11, pp. 227-232, November 2015, ISSN 2278-0181.

4. K. Subbarami Reddy and **V.Usha Reddy**, "Optimal placement of DSTATCOM in radial distribution system using fuzzy and Penguins search optimization algorithm", *International journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering(IJIREEICE),* Vol. 3, Issue 11, pp. 102-106,November 2015,ISSN 2321-2004.

5. G. Vara Lakshmi and **V.Usha Reddy**, "Design of Self Renewable Energy Residential System by using optimization techniques", *International journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering(IJIREEICE)*, Vol. 3, Issue 11, pp.95-101, November 2015, ISSN 2321-2004.

6. G. Vani and **V.Usha Reddy**," Application of Smart energy meter in Indian Energy Context", *IOSR journal of Electrical and Electronics Engineering (IOSR-JEEE)*, Vol. 10, Issue 3, ver. III(May-June 2015),pp 07-13.

7. P.V.Pradeep Reddy, **V.Usha Reddy**, "Many Optimizing Laisons based Assessment of PID controller performance for Automatic Generation Control", International Journal of Science, Engineering and Technology Research(IJSETR), Volume 4,Issue 4, pp. 689-693,April 2015, ISSN:2278-7798.

8. G.Sankarababu, **SmtV.Usha Reddy**, "Fuzzy logic control based standalone Wind Energy Conversion System for DC base telecom loads", International Journal of Innovative Research in Electrical ,Electronics, Instrumentation and Control Engineering, Vol.3,Issue 4, pp.121-126,April 2015, ISSN 2321-2004.

9. P.Hari Krishna, **V.Usha Reddy**, "Optimal location of UPFC for voltage stability using Particle Swarm Optimization", International Journal for Innovative Research in Science and Technology, Vol.1,Issue 11,pp.232-238,April 2015,ISSN:2349-6002.

10. S.Anusha, **V.Usha Reddy**, " Optimal TCSC placement using Harmony Search algorithm in transmission system for loss minimization", International Journal of Advanced Research in Electrical and Electronics Engineering, Vol.2,Issue 2, ,April 2014,ISSN: 2321-4775.

11. G.Supraja, **V.Usha Reddy,**" Optimal location of SMES for Improving Power System Voltage Stability using PSO algorithm", International Journal of Advanced Research in Electrical and Electronics Engineering, Vol.2,Issue 2,pp. 30-36,April 2014,ISSN: 2321-4775.

12. **V. Usha Reddy**, Dr T. GowriManohar, "Optimal Capacitor Placement for loss reduction in Ditribution Systems using Cuckoo Search Algorithm", *ITSI Transactions on Electrical and Electronics Engineering*, Vol 1,Issue 2,2013,pp 68-70.

13. **V. Usha Reddy**, Dr T. GowriManohar, P.Dinakar Prasad Reddy "Optimal capacitor Placement for Loss Reduction in Distribution Systems by using Bat Algorithm", *International Journal of Electrical Engineering & Technology (IJEET)*, vol 4, Isue 2,March-April 2013,pp 338-343.

14. **V.Usha Reddy** , S.DeepikaChoudary,"Detection and Mitigation of Power Quality Disturbances Using DWT technique and DVR", *International Journal of Engineering Research and Applications(IJERA),*Vol.2,Issue 6,November-December,2012.

15. **MrsV.Usha Reddy**, A.Manoj, "Optimal Capacitor Placement for loss reduction in Distribution Systems using Bat Algorithm",*IOSR Journal of Engineering(IOSRJEN)*,Vol 2,Issue 10,October 2012,pp 23-27.

16. A.V.Padmaja and **V.Usha Reddy** "APPLICATION OF WAVELET TRANSFORM FOR MONITORING SHORT DURATION DISTRBANCES IN DISTRIBUTION SYSTEM*", International Journal of Electrical Engineering and Technology (IJEET),*Volume 3, Issue 1, January- June (2012), pp. 97-107, ISSN:0976-6543(print) and ISSN:0976-6553(online).

17. **V. Usha Reddy**, Dr T. GowriManohar, P.Dinakar Prasad Reddy "Capacitor Placement for loss reduction in radial distribution networks:A two stage approach", *Journal of Electrical Engineering*, vol. 12, no.2, pp. 114-119, March-June. 2012.

18. **V. Usha Reddy**, Dr T. GowriManohar, M.Ramprasad Reddy, P.Dinakar Prasad Reddy, "Application of Differential Evolution Algorithm for loss reduction in radial distribution systems", *Research Journal of Engineering and Technology*, vol. 4, no.4, pp. 21-25, Oct- Dec. 2011.

19. **V.Usha Reddy** and G.NaveenKumar,"Performance of stability of an excitation system with time delays using PID Controller",*International Journal of Electrical Energy Systems*,Vol.3,no.2,July-Dec 2011,pp. 71-75.

20. M.Kishore Kumar and **V.UshaReddy**,"Plant Growth Simulation Algorithm for optimization of distribution network configuration", *Global Journal of Engineering and Applied Sciences*,vol.2,issue 1,pp 94-97,2011.

21. **V. Usha Reddy**, S. Jayachandra "An Adaptive Distance Relay Setting for EHV/UHV Power Transmission Line", *International Journal of Power System Operation and Energy Management*, Vol 1, Issue 2, 2011, pp 51-59.

22. **V.Usha Reddy**, DrT.GowriManohar "Optimal Capacitor Placement For Loss Reduction in Distribution Systems using Fuzzy and Differential Evolution" *IFRSA'S International Journal of Computing*,Vol.1,Issue 3,July 2011,pp 535-540.

23. P.Dinakar Prasad Reddy, **V.Usha Reddy** "Fuzzy-Differential Evolution Method for Optimal Capacitor Placement in Distribution Systems" *Journal on Electrical Engineering*, i- manager publications, Vol 4,No. 3,January-March 2011,pp 54-58.

24. **UshaReddy.V**, Dinakar Prasad Reddy.P "Differential Evolution Method for capacitor placement of distribution Systems", *International Journal of Advanced Engineering Sciences and Technologies*,Vol.4, Issue 2, 2011,pp 023-028.

25. Mrs. M. Padma Lalitha, Dr. V.C. Veera Reddy, **V.Usha Reddy,** *DG Placement for maximum loss reduction in Radial Distribution System*: A two stage method"*International Journal of Integrated Energy Systems*,Vol.2,July–Dec 2010,pp 105-111.

26. Mrs. M. Padma Lalitha, Dr. V.C. Veera Reddy, **V.Usha Reddy** "Application Of Fuzzy And PSO For DG Placement For Minimum Loss In Radial Distribution System"*Journal Of Engineering And Applied Sciences*,Vol.5,Issue 4,April,2010.pp.30-37

27. Mrs. M. Padma Lalitha , Dr.V.C. Veera Reddy, **V. Usha Reddy** "Optimal DG Placement For Minimum Real Power Loss In Radial Distribution Systems Using PSO", *Journal Of Theoretical And Applied Information Technology* ,Vol.13,No.2,March,2010,pp.107-116.

28. Mrs. M. Padma Lalitha , Dr.V.C.Veera Reddy, **V. Usha Reddy** "Application of Fuzzy and RCGA for DG Placement for maximum savings in Radial Distribution System ", *International Journal of Emerging Technologies and Applications in Engineering ,Technology and Sciences*,Vol.3,Issue 1,Jan-June 2010,pp.447-453.

29. Mrs.M.PadmaLalitha , Dr.V.C.Veera Reddy, N.Subash Chandra Bose, **V.Usha** "DG Placement Using Fuzzy For Maximum Loss Reduction In Radial Distribution System" *International Journal Of Computer Applications In Engineering, Technology And Sciences*, Vol. 2,Issue1, Oct 09-March 2010,pp. 50-55

30. Mrs.M.PadmaLalitha , Dr.V.C.VeeraReddy,N.Subash Chandra Bose, **V.Usha** "Optimal DG Placement For Loss Reduction In Radial Distribution System"*International Journal Of Emerging Technologies And Applications In Engineering, Technology And Sciences*, Vol. 2, Issue 2,July-Dec 2009,pp. 719-723

31. C. Sasikala, V. C. Veera Reddy, **V. Usha Reddy**, P. BhavaniSankar "Closed Loop Controlled Interline Power Flow Controller System" , *International Journal of Mathematical Sciences and Engineering Applications*, Vol. 3,No.II(2009),pp.299-309.

CONFERENCE PUBLICATIONS:

INTERNATIONAL

1. P.Hemalatha, **V.Usha Reddy,** "Optimal placement of DG in distribution networks using fuzzy and HSA", *2nd International Conference on Electrical, Electronics, Engineering Trends, Communication, Optimization & Sciences(EEECOS)-2015,* organized by Sun flower college of engineering and technology,Vijayawada,held on 28-30 March,2015.

2. **V. Usha Reddy**, Dr T. GowriManohar, "Cuckoo Search Algorithm and Loss Sensitivity Factors Method for optimal capacitor placement in radial distribution systems", International Conference on Advances in Recent Technologies in Electrical and Electronics(ARTEE) 2013, pp. 335-338, 20-21Sep 2013,Banglore indexed in **Elsevier.**

3. **V. Usha Reddy**, Dr T. GowriManohar, "A two stage approach:Capacitor Placement for loss reduction in distribution systems", Environment and Electrical Engineering(EEEIC) 2012 11th International Conference, pp. 555-558, 18-25 May 2012,Venice indexed in **IEEE Explorer**.

4. T.S. Sravan Kumar and Mrs**V. Usha Reddy**," Daily load forecasting of Distribution System including seasonal variation using Artificial Neural networks" 2nd AP Science Congress, SV University, Tirupati, November 14-16 ,2009.

5. **V.Usha Reddy** and Dr T. Gowrimanohar,"Effects of FACTS Devices on Power System Operation", International conference 3CI-2007 organized by IEEE at RVCE, Bangalore.21-23rd November, 2007.

NATIONAL

1. **V.UshaReddy**andV.Anusha, "Curvelet Transform and Euclidean Distance for Medical Image Retrieval System", National Conference on Advances in computational intelligence and computer engineering,Sri PadmavathiMahilaViswaVidyalayam, 23rd and 24th October 2013, Tirupati.

CONFERENCES/WORKSHOPS/FACULTY DEVELOPMENT PROGRAMMES ATTENDED:.

1. Two Week Workshop on "**Introduction to Design of Algorithms**" conducted by IIT Karagpur at SVU College of Engineering, 25thMay to 30th May, 2015.

2. Two Week Workshop on "**Control Systems**" conducted by IIT Karagpur at SVU College of Engineering, 2nd June to 12th December, 2014.

3. workshop on "**Wavelet transforms in Signal Processing",** organized by Dept of ECE. SV University College of Engineering,Tirupati,15th March,2015.

4. National workshop on "**Recent developments in smart grid technologies(NWSGT-1014)",**organizes by IIT Bhubaneswar,8th& 9th November,2014.

5. Faculty Development Program on "**Intellectual Property Rights**", SVU College of Engineering, 8th July 2014

6. A two week Faculty Development Program on "**Foundation Skills in Information Technology**", S V U College of Engineering,20-30 January,2014.

7. Two Week Workshop on "**Signals and Systems**", conducted by IIT Karagpur at SVU College of Engineering, 2nd June to 12th January, 2014.

8. Two Week Workshop on "**Analog Electronics**", conducted by IIT Karagpur at SVU College of Engineering, 4th June to 14th June, 2013.

9. Two Week workshop on "**Database Management Systems**" conducted by IIT Bombay at SVU College of Engineering, 21st May to 31st May, 2013.

10. International Conference on **Electrical, Electronics and Computer Science** (ICEECS-2013),Chennai, June 2nd 2013
.

11. Two day Faculty Development programme on "**VLSI Design Flow Using Synopsys EDA Tools**", SVU College of Engineering, Tirupati, April 12th and 13th,2013.

12. National workshop on "**Research Methodology**", S V U College of Engineering, Tirupati, 29-30 September,2012

13. One day workshop on "**Cloud Computing**" organized by SV University,8th November 2011.

14. National level workshop on "**Smart grid Technologies-Issues and Challenges**" organized by Dept of EEE, S V U College of Engineering,20th August 2011.

15. National Conference on "**Advances in atmospheric Remote Sensing, weather prediction and Climate change(ARWPCC-2011)**" organized by Dept of Physics, SVUniversity and NARL,10-11 March 2011.

16. National Workshop on "**Applications of Artificial Intelligence to Power Systems**" organized by Madanapalli Institute of Technology and Science, Madanapalli, 25th September, 2010.

17. Two day workshop on "**Applications of Soft Computing Techniques in Electrical and Electronics Engineering**" organized by VignanaBharathi Institute of Technology, Hyderabad, 23rd-24th April, 2010.

18. National Seminar on "**Women and Management – Perspectives and Perceptions**" organized by S V University, Tirupati, 30-31st March,2010.

19. National Workshop on "**Mathematical models for Biofluid flows and Applications**", organized by S V University, Tirupati, 22-26 January 2010.

20. National Conference on "**Data Mining & Network security NITCO'09**" organized by the Department of computer science, S V University, Tirupati.01-02 April'09.

21. National level workshop on "**Recent trends in VLSI and Nano Technology & Hands on Skills on EDA Tools**" Organized by S V College of Engineering and Technology, Chittoor, 24-26th March 2009.

22. Workshop on "**Recent Advances in Electrical Engineering**" organized by SV Perumal college of Engineering and Technology, Puttur, 21st March 2009.

23. Symposium on "**Recent Trends on Mathematical Modeling (RTMM-09)**" organized by Department of Mathematics, S V University, Tirupati.20th March 2009.

24. National Conference on "**Emerging Materials, Devices and Technologies**", organized by Department of Physics, S V University, Tirupati.24-25th February 2009.

25. International conference 3CI-2007 organized by IEEE at RVCE, Bangalore.21-23rd November, 2007.

SHORT COURSES/SUMMER/WINTER SCHOOLS ATTENDED:

1. Refresher Course on "**Engineering Sciences**" organized by UGC Academic Staff College, SV University, 16thNovember to 5th December, 2015.

2. Orientation Programme organized by UGC Academic Staff College, SV University, 29thOctober to 24th November, 2012.

3. Refresher Course on "**Recent Trends in Deregulation of Power Systems**" organized by UGC Academic Staff College, JNTUH, Hyderabad, 13th June to 2nd July, 2011.

4. UGC Sponsored SAM Workshop on "**Capacity Building of Women Managers in Higher Education**", S V University, 9-13th August, 2010.

5. Short term course on "**Soft Computing Techniques in Electrical Engineering**" organized by National Institute of Technology, Warangal. 7-19th December 2009

6. Short term Training Programme on "**Induction programme for New Faculty**" organized by S V University college of Engineering,7-11th august 2007.

M.TECH PROJECTS AWARDED.

Sno	Rollno& Name of the student	Title	Year of Completed M.Tech
1	1107306 T.S. Sravana Kumar	Daily Load Forecasting of Distribution System including Seasonal Variation Using Artificial Neural Networks	2009
2	1108306 P. Dinakara Prasad Reddy	Differential Evolution Method for Optimal Capacitor Placement in Distribution Systems	2011
3	1109328 S.Jayachandra	An Adaptive Distance Relay Setting for UHV/EHV Power Transmission Lines	2011
4	1109355 G. Naveen Kumar	Improvement of Stability of a Generator excitation Control system using stabilizer with time delays	2011
5	1109332 M. Kishore Kumar	Plant Growth Simulation Algorithm for Optimization of Distribution Network Configuration	2012
6	1108301 A. V. Padmaja	Application of Wavelet Transform for Monitoring Short Duration Disturbances in Distribution System	2012
7	A. Manoj (1110326)	Optimal Capacitor Placement for loss reduction in Distribution Systems using Bat Algorithm	2012
8	S. DeepikaChowdary (1110333),	Detection and mitigation of Power Quality Disturbances using Discrete Wavelet Transform technique and Dynamic voltage Restorer	2012

9	V.Anusha (1111364)	Feature extraction for image matching and retrieval using curvelet transform technique	2014
10	Anusha S (1111321)	Optimal TCSC placement using harmony search algorithm in transmission system for loss minimization	2014
11	SuprajaGeriki (1111322)	Optimal location of SMES for improving power system voltage stability using PSO algorithm	2014
13	P.Hari Krishna (1112334)	Optimal location of UPFC for voltage profile improvement using particle swarm optimization algorithm	2015
14	G.sankarababu (1112356)	Fuzzy logic control based stand alone wind energy conversion system for DC base telecom loads	2015
15	P.V.Pradeep Reddy (1112335)	Many Optimizing liaisons based assessment of PID controller performance for automatic generation control	2015
16	P.Hemalatha (1112327)	Optimal Placement of distributed generation in distribution networks using fuzzy and harmony search algorithm	2015

17	G.vani (E1112331)	Application of smart energy meter in Indian energy context	2015
18	P.Manasa (1113358)	A PV based Integrated SSSC with Fuzzy Logic Controller for Wide Area Power Oscillation Damping with Continuous Communication Delays	2015
19	G. Vara Lakshmi (1113347)	Design of Self Governing Renewable Energy residential System by using Differential Evolution Technique	2015
20	K.Subbarami Reddy (1113302)	Optimal placement of DSTATCOM in radial distribution system using Fuzzy and Penguins Search optimization algorithm	2015
21	K.Chandana (1113356)	Enhanced image fusion algorithm using Laplacian Pyramid and Spatial frequency based wavelet algorithm	2015
22	Ch.Silpa (1113308)	Power loss reduction in distribution systems using Autonomous Group Particle Swarm optimization algorithm	2015