

# Curriculum Vitae



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## *Personal Details:*

Name : Dr. T. Gowri Manohar  
Father's Name : Dr. T. Krishna Parandhama  
Date of Birth : 27-01-1973  
Nationality : Indian  
Religion : Hindu  
Marital Status : Married  
Official Address : Dr. T. Gowri Manohar  
Associate Professor  
Dept. of Electrical & Electronics Engineering.  
SV University College of Engineering  
Tirupati - 517502, Andhra Pradesh  
Residential Address : 13-7-939/G2/1  
Korlagunta  
Tirupati -517501.

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## *Educational Qualifications:*

Ph.D:

Area of Research : Power System Operation and Control  
Date of award : 07-09-2007  
Name of the University : Sri Venkateswara University, Tirupati.

M.Tech:

Specialization : Power System Operation & Control  
Class obtained : First Class with Distinction ( 78%)  
Year of passing : 1998  
Name of the University : Sri Venkateswara University, Tirupati.  
Project work : The method of reduction and restoration for optimum scheduling of generation.

B.Tech:

Branch : Electrical and Electronics Engineering  
Class obtained : First Class  
Year of passing : 1996 (April)  
Name of the University : S. V. University, Tiruapti  
Name of the Project : Design of Ultra High Voltage Trans. Line

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***Teaching Experience:***

- a) Associate Professor in Dept. of Electrical & Electronics Engineering at SVU College of Engg, Tirupati since 3-7-2007.
- b) Associate Professor in Dept. of Electrical & Electronics Engineering at Sri kalahasteeswara Institute of Technology, Srikalahasti, from 30-5-2006 to 3-7-2007 in the scale 12000-420-18300.
- c) Assistant Professor in Dept. of Electrical & Electronics Engineering at Sri kalahasteeswara Institute of Technology, Srikalahasti, from 29-10-1999 to 29-5-2006 in the scale 8000-275-13500.
- d) Adhoc-Lecturer in Dept. of Electrical & Electronics Engineering at Sri kalahasteeswara Institute of Technology, Srikalahasti, from 1-5-1999 to 28-10-1999.
- e) Teaching Assistant in Dept. of Electrical & Electronics Engineering at S. V. U. College of Engineering, Tirupati from 19-8-98 to 30-4-99.

f) Part-time Lecturer in Dept. of Electrical & Electronics Engineering at S. V. U. College of Engineering, Tirupati from November 1997 to August 1998.

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***Research Experience:***

**No. of PhDs Guided** : 02 (awarded)  
01 (submitted)  
09 (under progress)  
01 (Co-Supervisor)

**No. of M.Tech Projects Guided** : 19

***Publications:*** More than 50 papers in national, international conferences and journals including IEEE, Springer, Institution of Engineers (India), CPRI, European Journal of Scientific Research, Journal of Electrical Engineering etc.

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***Academic Experience:***

***Subjects Taught at***

**Post Graduate Level:** Optimization Methods and Computer Algorithms, Modern Control Theory, Operation and Control of Interconnected Power Systems, Reactive Power Control in Power Systems, Advanced Power System Protection, Electrical Power Distribution Systems.

**Under Graduate Level:** Power Quality, Power Systems (gen. & dist.), Power Transmission system, Power System Protection, Computer methods in power systems, Power system operation and control, modelling of power system components, Network Theory, Utilization of Electric Energy, Electro-mechanics- II, Electro-mechanics- III, Electromagnetic Fields, Power Electronics.

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***Administrative experience:***

- Member, PG Board of Studies since 14-02-2012.
- Member, UG Board of Studies since 14-02-2012.

- **Member**, NBA College Committee since 14-03-2012.
  - **Member**, TEQIP-II Monitoring & Evaluation Committee since 5-3-2012.
  - **Additional Chief- Superintendent of Examinations** at SVUCE from 25-08-2007 to 26-08-2010.
  - **Head of the department** from 1-2-2002 to 4-5-2004 at Sri kalahasteswara Institute of Technology, Srikalahasti.
  - **Convener**, AICTE / JNTU affiliation related works of Sri kalahasteswara Institute of Technology, Srikalahasti from July 2006 to June 2007.
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***Other Credentials:***

- **Designed and Established**
    1. Department Computer Centre with LAN
    2. Electrical Machines Lab
    3. Control Systems Lab
    4. Networks Lab
    5. Power Electronics Lab
    6. Electrical Measurements Lab
  - **Member**, EAMCET confidential team
  - **Expert Member** for J N T University Anantapur Faculty Ratification interviews
  - **Expert Member** for paper setting, conducting and evaluating State Level Examinations for Recruiting Assistant Engineers in AP GENCO and AP SPDCL
  - **Resource Person** for National level Workshops
  - **Judge** for National Level Technical Symposiums
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***Software Profile:***

Familiar with COBOL, C, FORTRAN, MATLAB, P-SPICE.

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I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.

**(T. GOWRI MANOHAR)**

## *References*

### 1) *Dr. P. Sangameswar Raju*

Professor, Dept. of EEE  
College of Engineering  
Sri Venkateswara University  
Tirupati – 517502 (A.P)

### 2) *Dr. A. Lakshmi Devi*

Professor & Head, Dept. of EEE  
College of Engineering  
Sri Venkateswara University  
Tirupati – 517502 (A.P)

## **PhDs guided**

1. D. Mohan Reddy, 10REE026, “**Enhancement Of Electrical Power Quality Using Fuzzy Logic Controller Based Optimal Modulation Scheme**”, awarded on 07-08-2015
2. P. Gopi Krishna, 10REE024, “**Voltage Stability Constrained Available Transfer Capability In Deregulated Power System Using Novel And Intelligent Techniques**”, awarded on 19-12-2015.
3. V. Usha Reddy, 0803PH0774, “**Novel Techniques for Loss Reduction in Distribution Systems**”, revised report submitted and awaiting viva.

## **M.Tech Projects Guided**

1. Analysis Of Radial Distribution Systems With Embedded Series FACTS Devices, T. Madhuranthaka, 1105328, 2008.
2. Optimal Citing Of SSVR In Distribution System For Loss Reduction, , T. Geetha, 1107312, 2009.
3. Optimal Citing Of Custom Power Controller In Distribution System For Loss Reduction, N. Suresh, 1107307, 2009.
4. Power Flow Studies incorporating FACTS Devices, G.P.Sai Pranith, 1108317, 2010.
5. GSM based Motor Monitoring and Speed Control, V. Bhaskar, 1108318, 2011.
6. Improvement of Power Factor in Wind Farms using TCC Device, M. Dinesh Reddy, 1109331, 2011.
7. Analysis of transients on device latch up, T. Bhargavi, (11093118) 1109338, 2011
8. Parameter Optimization of HVDC Controls using PSO Algorithm in Matlab/Simulink, A. Hari Priya, 1109321, 2011.
9. Studies on Capacitor Placement in Radial Distribution System, K.Janaki Rami Reddy, 1108307, 2012.

10. Optimal placement of shunt connected FACTS device in a series connected long transmission line, C. Vasavi, 1110332, 2012
11. Optimal Placement of Distribution Generation on Unbalanced Distribution Networks, N. Vishnu Vardhan Reddy, 1110327, 2012.
12. Neural Network Based Shunt Active Power Filter to Reduce Total Harmonic Distortion, A. Sunil Kumar, 1111362, Nov. 2013
13. Improvement of Power Quality in Wind Farm Integrated with Weak Grid using Fuzzy logic based UPQC, R. Mahesh Naik, 1111327, 2013.
14. Optimal Placement and sizing of DG in distributed networks using fuzzy and ANFIS, G. Sireesha, 1112325, Dec 2014.
15. Remote end energy capturing and monitoring through automatic meter reading, A. Priyanka, 1112351, 2014.
16. Optimal Sizing and Placement of Capacitor in Distribution System, P.Ramesh Babu, 1112336, Dec 2014.
17. Optimal sizing and Placement of DG to improve the Power Quality in the distributed System, S. Chinna Babu, 1112365, Dec 2014.
18. Analysis of SPMW Technique based CHB multi level inverter with photovoltaic array, P. Babu, 1113343, Jan 2016.
19. Enhancement of power quality in distribution system by using renewable DGs, k. Homprakash, 1113315, Jan 2016.

### National Conferences

#### 2003-04

1. P.Sudhakara Reddy, T.Gowri Manohar and V.Rajani Kanth, “**Policy Management made Easy: e-governance**”, Proceedings of National Conference, SVU College of Engineering, Tirupati, December, 2003.

#### 2004-05

2. P.Sudhakar Reddy, Dr.G.V.Subba Reddy and T.Gowri Manohar, “**Emerging Trends in Materials Research – An Overview**”, Proceedings of National Conference on Advances in Mechanical Engineering, SVU College of Engineering, Tirupati, Aug, 2004.
3. T.Gowri Manohar, Dr.V.C.Veera Reddy, P.Sangameshwar Raju, “**A Fuzzy Approach for Unsymmetrical Fault Identification**”, Proceedings of National Conference on Advances in Mechanical Engineering, SVU College of Engineering, Tirupati, Aug, 2004.

4. T. Gowri Manohar, V. Rajani Kanth and P. Sudhakar Reddy, “**Speed Control of Induction Motor using Closed Loop Constant V/F Control: A Simulation Method**”, Proceedings of National Conference on Advances in Mechanical Engineering, SVU College of Engineering, Tirupati, Aug, 2004.
5. B. Jayachandraiah, K.Narasaiah Chetty and T.Gowri Manohar, “**Neural Networks based Virtual Sensors for Monitoring IC Engines**”, Proceedings of National Conference on Advances in Mechanical Engineering, SVU College of Engineering, Tirupati, Aug, 2004.
6. S. Leela Lakshmi, V.Rajani Kanth and T.Gowri Manohar, “**Simulation of Proof Pressure Testing of Pressure Vessel**”, Proceedings of National Conference on Advances in Mechanical Engineering, SVU College of Engineering, Tirupati, Aug, 2004.
7. T. Gowri Manohar and Dr. V.C.Veera Reddy, “**Fast Decoupled Load Flow by Incorporating Facts Device**”, Proceedings of National Conference on Control Instrumentation System, Manipal Institute of Technology, Manipal, pp.277-280, Nov 2004.
8. T. Gowri Manohar, V. C. Veera Reddy, V. Ganesh and S. Siva Prasad, “**Enhancement of Transient Stability Limit using Facts Devices**”, Proceedings of National Conference on Soft Computing Techniques applied to Power System Engineering, Faculty of Engineering and Technology, Annamalai University, Chidambaram, March 2005.
9. P. Gopi Krishna and Dr. T. Gowri Manohar, “**Voltage Stability Constrained available Transfer Capability Computations in the Deregulated Power System using Radial Basis Function Neural Network**”, Proceedings of National Conference on Recent Advances in Electrical Engineering, JNTU, Anantapur.

#### 2008-09

10. T. Madhuranthaka and Dr. T. Gowri Manohar, “**Analysis of Radial Distribution System Incorporating TCSC**” Proceedings of National Conference on Recent Advances in Electrical Engineering, JNTU, Anantapur Dec 2008.
11. T. Madhuranthaka and Dr. T. Gowri Manohar, “**Analysis of Radial Distribution System by including TCVR**” Proceedings of National Conference on Planning Operation and Control of Interconnected Power Systems, Annamalai University, Chidambaram, March 14-15, 2009.

#### 2009-10

12. T.Geetha and Dr.T.Gowri Manohar, “**Optimal Citing of SSVR in Distribution Systems for Loss Reduction**” Proceedings of Second National Level Conference on Arena of Intellectual Innovations, GSSS Institute of Engineering & Technology for Women, Mysore, October 6-7, 2009.

13. Mr. Suresh and Dr. T. Gowri Manohar, **“Optimal Citing of Custom Power Controllers in Distribution Systems for Loss Reduction”** Proceedings of Second National Level Conference on *Arena of Intellectual Innovations, GSSS Institute of Engineering & Technology for Women, Mysore, October 6-7, 2009.*

#### 2012-13

14. Mr. P. Sasi Kiran, Dr. T. Gowri Manohar, Dr. S. Koteswara Rao, **“Non-Parametric Spectral Estimation methods for detection of power system Harmonics”, in Proceedings of the National Conference on Advanced Communication and Computer Technologies** (ACCT-2012), IETE (India), Visakshapatnam Centre, July 6-7, 2012, PP:93-96.

#### 2013-14

15. Mr. A. Sunil Kumar and Dr. T. Gowri Manohar, **“Neural Network Based Shunt Active Power Filter To Reduce Total Harmonic Distortion”**, Proceedings of National Conference on *Advances In Power Systems, Power Electronics And Solar Energy*, 24<sup>th</sup> – 25<sup>th</sup> October 2013.

### International Conferences

#### 2002-03

1. T.Gowri Manohar, K.Eswaramma and V.C.Veera Reddy, **“The Method of Reduction and Restoration for Optimum Scheduling of Generation”**, Proceedings of International Conference on Digital Aided Modelling and Simulation: An Evolutionary Approach for Optimization, Coimbatore Institute of Technology, Coimbatore, Jan 2003.

#### 2005-06

2. Dr. V.C.Veera Reddy, T. Gowri Manohar and Ir. Perumal Nallagownden, **“Load Frequency Control of a Power System using Intelligence based Technique”**, Proceedings of International Conference, University Sains Malaysia, Malaysia, pp.332-336, July 2005.
3. T.Gowri Manohar and Dr.V.C.Veera Reddy, **“Optimum Generation Scheduling Considering TCSC”**, Proceeding of International Seminar on Power Transmission-Research Interests and Challenges, CPRI, Bangalore, Dec 2005.
4. B.Krishna, T.Gowri Manohar and Dr.V.C.Veera Reddy, **“Load flow studies using Complex Short-Circuit MVA method”**, Proceedings of International Conference on Resource Utilization and Intellegent Systems, Kongu Engineering College, Erode, pp.384-386, Jan 2006.

#### 2006-07

5. T.Gowri Manohar and Dr.V.C.Veera Reddy, **“Short term load forecasting using Artificial Intelligence based technique”**, Proceedings of International Conference on Recent Trends in Automation & its Adaptation to Industries, Priyadarshini College of Engineering, Nagpur, July 2006.
6. V.Ganesh, T.Gowri Manohar and S.Siva Nagaraju, **“Load Balancing in Distribution System through Network Reconfiguration by using Artificial Neural**



**Networks**", Proceedings of International Conference on Frontier Technologies-Need for Industry, Business and Education, pp 161-167, September 2006.

#### **2007-08**

7. Dr.T.Gowri Manohar, V.Usha Reddy and Dr.V.C.Veera Reddy, "**Effect of FACTS Devices on Power System Operation**", Proceedings of **IEEE International Conference on Control and Instrumentation**, RV College of Engineering, Bangalore, pp. 370-374, Nov 2007.

#### **2010-11**

8. G.Sai Pranith and Dr.T.Gowri Manohar, "**Novel C++ program for selecting FACTS Devices for Power Flow Studies**", **Proceedings of IEEE Region 8 International Conference On Computational Technologies in Electrical and Electronics Engineering, Russia, vol-2, pp.708-713, July 2010, IEEE CATALOG NUMBER:CFP1011E-PRT, ISBN: 978-1-4244-7623-7**
9. P. Gopi Krishna and Dr. T. Gowri Manohar, "Voltage Stability Constrained ATC Computations in Deregulated Power System using Novel Technique", **Springer International Conference**, Cochin, Nov 2010, **ISSN 1865-0929, ISBN-10 3-642-15738-6, New York.**

#### **2011-12**

10. V.Bhaskar and Dr. T. Gowri Manohar, "**GSM Based Motor Monitoring and Speed Control**", International Conference on Electronics and Communication Engineering, pp. 59-64, Oct 2011, **ISBN: 978-93-81583-04-3.**

#### **2012-13**

11. **V.Usha Reddy and Dr.T.Gowri Manohar**, "A Two Stage Approach: Capacitor Placement for Loss Reduction in Radial Distribution System", **Proceedings of IEEE International Conference on Environment and Electrical Engineering**, pp.549-552, July 2012, **IEEE CATALOG NUMBER: CFP1251I-CDR, ISBN: 978-1-4577-1828-1.**
12. Mohan Reddy and Dr.T.Gowri Manohar, "**Comparison of Five Level and Seven Level Cascaded Multilevel Inverter Based Dstatcom for comparison of Harmonics and Reactive Power using Instantaneous Real Power Theory**", Proceedings of **IEEE International Conference on Emerging Trends in Electrical Engineering and Energy Management**, Vinayaka Missions University, Chennai, pp.485-490, Dec2012, **ISBN: 978-93-82062-78-3.**
13. **Mr. P. Sasi Kiran**, Dr. T. Gowri Manohar, Dr. S. Koteswara Rao, "Parametric spectral estimation methods for detection of power system harmonics" in proceedings of **International Conference On Frontiers Of Statistics And Its Applications** , Pondicherry, India, Dec. 21-23, 2012, **PP.121-126. ISBN 978-93-82338-78-9.**

## 2013-14

14. Mr. D.Mohan Reddy and Dr.T.Gowri Manohar.,”A Transformerless High Power Converter For Improving Energy Storage System Application To Grid Interfacing PV system, IIST-EECS-ISBN: 978-93-81693-54-2, 9<sup>th</sup> FEB 2014, pp. 142-150.

15. **Mr. P. Sasi Kiran**, Dr. T. Gowri Manohar, Dr. S. Koteswara Rao, 'Estimating the Power Spectrum of a Wide Sense Stationary Random Process Using Parametric Approaches (AR, MA)' **International conference on Information and Communication Technologies** (ICICT 2014),16<sup>th</sup> Feb,2014,Coimbatore,India.

## 2014-15

16. Mr. D.Mohan Reddy and Dr.T.Gowri Manohar.,”Dynamic Performance of Power Quality Improvement Using Multilevel DSTATCOM with DG Application”. IEEE Sponsored International Conference On Current Trends In Engineering And Technology (ICCTET 2014) organized by Akshaya College of Engineering and Technology, Coimbatore; 8<sup>th</sup> July 2014.

17. Mr. D.Mohan Reddy and Dr.T.Gowri Manohar.,”Optimal Hybrid Modulation Scheme for 11-Level CMC Based DSTATCOM for Power Quality Improvement“. IEEE Sponsored International Conference On Current Trends In Engineering And Technology (ICCTET 2014) organized by Akshaya College of Engineering and Technology, Coimbatore; 8<sup>th</sup> July 2014.

18. Dr. T.Gowri Manohar, “Optimal sizing and placement of capacitor in distribution system using fuzzy and ANFIS”, 2<sup>nd</sup> International Conference on Advanced Electrical Systems and Applications organized by G. Pullaiah college of engineering and technology, Kurnol, 25<sup>th</sup> march 2015.

## 2015-16

19. P. Babu and Dr. T. Gowri Manohar, “SPMW technique for CHB multilevel inverters with photovoltaic array”, 6<sup>th</sup> International Seminar on Regional Network on Poverty Eradication, organized by SVUniversity, Tirupati, 13<sup>th</sup> – 15<sup>th</sup> Nov 2015 page no. 413, ISBN: 978-93-82829-47-8.

20. S. Susmita and Dr. T. Gowri Manohar, “Power Quality Improvement using FLC based PWM Modulation Technique for Matrix Converter”, 6<sup>th</sup> International Seminar on Regional Network on Poverty Eradication, organized by SVUniversity, Tirupati, 13<sup>th</sup> – 15<sup>th</sup> Nov 2015, page no. 411, ISBN: 978-93-82829-47-8.

## 2011-12

1. M. Dinesh Reddy and Dr. T. Gowri Manohar, "Power Factor Improvement in Wind Mill Power Station Using TCC", **i-manager's Journal on Electrical Engineering**, vol.5,No.1, pp. 27-31, July 2011, ISSN 0973 - 8835

## 2012-13

2. G.Muni Reddy, Dr.T.Gowri Manohar and V. Jyothisna Priya, "Fuzzy Controller Based STATCOM for Grid connected Wind Firm", **Proceedings of The Journal of CPRI on Research and new Applications in Generation, Transmission, Distribution, Utilization and Conservation of Electric Power in the Power and Energy Sectors, Bangalore**, vol-8, Issue.04, pp.289-297, Dec 2012, ISSN: 0973-0338.

## 2014-15

3. Ravi Babu G and Gowri Manohar T, "Stability analysis of multi machine system using FACTS and renewable energy source", **The Journal of CPRI** Vol. 11, No. 1, March 2015 pp. 59-70.

## 2015-16

4. R. Siva Subramanyam Reddy and Dr. T. Gowri Manohar, "Power Loss reduction and voltage stability enhancement by optimal location of UPFC "**The Journal of CPRI**", Vol. 11, No. 2, June 2015 pp. 1-6.

## International Journals

### 2010-11

1. P. Gopi Krishna and Dr. T. Gowri Manohar, "**Online Monitoring of Available Transfer Capability in Deregulated Power System using Adaptive Neuro Fuzzy Inference System**", **Springers Journal on Communications in Computer and Information Science**, vol. 102, part 2, pp. 74-79, Sep 2010, **ISSN: 1865-0929, ISBN-10:3-642-15738-6, ISBN-13:978-3-642-15738-7, Berlin, NewYork, Impact Factor: 1.0.**
2. M. Dinesh Reddy and Dr. T. Gowri Manohar, "**Power Factor Improvement in Wind Mill Power Station Using TCC including current limiting resistor**", **International Journal of Power System Operation and Energy Management**, vol-1, issue-2, No.1, pp. 99-102, 2011, ISSN 2231 – 4407.
3. T.Bhargavi, Dr. T. Gowri Manohar and Vijay Hiralal Bhosale, "**Analysis of Transients on Device Latch up**", **International Journal of Power System Operation and Energy Management**, vol-1, issue-2, No.1, pp. 103-109, 2011, ISSN: 2231 – 4407.
4. A.Hari Priya, J. Sreedevi and Dr. T. Gowri Manohar, "**Dynamic Performance of a 2500MW HVDC Bipolar Transmission Line**", **International Journal of Power System Operation and Energy Management**, vol-1, issue-2, No.1, pp.132 -137, 2011, ISSN: 2231 – 4407.

## 2011-12

5. **V.Usha Reddy and Dr.T.Gowri Manohar, “Optimal Capacitor Placement for Loss Reduction in Radial Distribution System using Fuzzy and Differential Evolution”, International Journal of Computing, Vol.1, issue 3, pp.535-540, July 2011.**
6. **P.Gopi Krishna and Dr. T. Gowri Manohar, “A Novel Hybrid Intelligent Technique for the Analysis of Optimal load flow in Deregulated Power System”, International Journal on Recent Trends in Engineering and Technology, vol-6, No.2, pp. 72-78, Nov 2011, ISSN: 2158 – 5555. Impact Factor: 2.0.**
7. **V.Usha Reddy, Dr.T.Gowri Manohar, etal., “Application of Differential Evolution Algorithm for Loss Reduction in Radial Distribution System”, Research Journal of Engineering and Technology, vol.4, issue.4, pp.21-24, Dec 2011, ISSN: 0974-2824.**
8. **R.Siva Subramanyam Reddy and Dr. T. Gowri Manohar, “Literature Review on Voltage Stability Phenomenon and importance of FACTS Controllers in Power System Environment”, Global Journal of Researches in Electrical and Electronics Engineering(USA), vol-XII, Issue.III, pp. 25-29, Mar 2012, ISSN: 0975 – 5861.**
9. **V.Usha Reddy, Dr.T.Gowri Manohar and P.Dinakar Prasad Reddy, “Capacitor Placement for Loss Reduction in Radial Distribution System: A Two Stage Approach”, Journal of Electrical Engineering, vol 12, May 2012.**

## 2012-13

10. **P.Gopi Krishna and Dr. T. Gowri Manohar, “Assessment of Secured Voltage Stability Power Margin of Indian Southern Power Grid using Integrated and Intelligent methods”, International Journal on Recent Trends in Engineering and Technology, vol-7, No.2, pp. 43-50, July 2012, ISSN: 2158 – 5555, Impact Factor: 2.0**
11. **P.Gopi Krishna and Dr. T. Gowri Manohar, “Available Transfer Capability Computations in Deregulated Power System with the Optimal location of Unified Power Flow Controller”, International Journal of Electrical and Electronics Engineering Research, vol.2, issue 3, pp.121-138, Sep 2012, ISSN:2250-155X, Impact Factor: 3.7567**
12. **K.Janaki Rami Reddy and Dr. T. Gowri Manohar, “Optimal location and Sizing of Capacitors in Radial Distribution Systems by using Modified method”, Global Journal of Engineering and Applied Sciences , vol-2, No.2, pp. 194-197, Nov 2012, ISSN: 2249 – 2623.**
13. **C.Vasavi and Dr. T. Gowri Manohar, “FACTS Placement for Maximum Power Transfer Capability and Stability in a Transmission Line”, International Journal of Computational Engineering Research , vol-2, Issue.7, pp. 152-160, Nov 2012, ISSN: 2250 – 3005.**

14. V.Ganesh, Dr.T.Gowri Manohar, et.al, “**Improvement of Transient Stability through SVC**”, International Journal of Advances in Engineering & Technology, vol-5, Issue.1, pp. 56-66, Nov 2012, ISSN: 2231 – 1963.
15. D.Mohan Reddy and Dr.T.Gowri Manohar, “**A Cascaded Multilevel Inverter Based DSTATCOM for Restuctured Power Systems to compensate the Reactive Power and Harmonics using Shift Carrier Techniques**”, IOSR Journal of Electrical & Electronics Engineering, Vol.4, Issue 3, pp.39-48, Jan-Feb, 2013, ISSN: **2278-1676**.
16. V.Usha Reddy, Dr.T.Gowri Manohar and P.Dinakara Prasad Reddy, “**Optimal Capacitor Placement for Loss Reduction in Distribution System by using BAT Algorithm**”, International Journal of Electrical Engineering and Technology, vol 4, Issue 2, pp. 338-343, March-April 2013, ISSN 0976-6545, **Impact Factor: 5.5028**.
17. D.Mohan Reddy and Dr.T.Gowri Manohar, “**A Seven Level Cascaded Multilevel DSTATCOM for compensation of the Reactive Power and Harmonics using PSCPWM and LSCPWM Techniques**”, International Journal of Advanced Research in Engineering and Technology, Vol.4, Issue 2, pp.106-118, March-April 2013, ISSN: **0976-6480, Impact Factor: 5.8376**.
18. D.Mohan Reddy and Dr.T.Gowri Manohar, “**Comparative Analysis of a Cascaded Seven Level and Five Level MLI based Distribution STATCOM for compensation of Harmonics and Reactive Power using Reference Frame Theory**”, International Journal of Electrical Engineering and Technology, Vol.4, Issue 2, pp.358-371, March-April 2013, ISSN: **0976-6545, Impact Factor: 5.5028**.
19. D.Mohan Reddy and Dr.T.Gowri Manohar, “**A New Fast PI Controller based DSTATCOM under Balanced & Unbalanced Loading Conditions using Instantaneous Synchronous Reference Theory**”, International Journal of Electrical & Electronics Engineering Research, Vol.3, Issue 2, pp.171-184, June 2013, ISSN: **2250-155X, Impact Factor: 5.6397**.
20. D.Mohan Reddy and Dr.T.Gowri Manohar, “**Mitigation of Interruption & Voltage Sag, Swell using a Cascaded MLI based Dynamic Voltage Restorer**”, International Journal of Electrical & Electronics Engineering Research, Vol.3, Issue 2, pp.153-170, June 2013, ISSN: **2250-155X, Impact Factor: 5.6397**.
21. Mr. D.Mohan Reddy and Dr.T.Gowri Manohar. “**Comparison of a Cascaded MLI based Distribution STATCOM and APF with various PWM Techniques for Compensation of Harmonics and Reactive Power using Modified Reference Frame Theory**”. European journal of scientific research (EJSR) ; Volume 104, Issue1, **June 013**.pp:139-152.ISSN : 1450202X.; EBSCO, ISI Impact factor :0.736.  
(*European Journal of Scientific Research is indexed in ProQuest ABI/INFORM Genamics Elsevier. SCImago Journal & Country Rank (SJR) Journal*).
22. Mr. D.Mohan Reddy and Dr.T.Gowri Manohar., “**Harmonics Mitigation and Switching loss reduction using Cascaded Multilevel Based Half Bridge and Full Bridge Inverter System**”. International journal of Current Engineering & Technology (IJCET) Volume 3, Issue 2, **June 2013**. ISSN : 2277-4106.  
<http://inpressco.com/category/ijcet> ISI Impact factor :1.274.

23. P.Gopi Krishna and Dr. T. Gowri Manohar, “**A Novel Voltage stability Analysis of Power System**”, International Journal of Electrical and Electronics Engineering Research, vol.3, issue 3, August 2013, ISSN:2250-155X, **Impact Factor: 5.6397**
24. Mr. D.Mohan Reddy and Dr.T.Gowri Manohar., “**Harmonics Mitigation Under Various Loading Conditions Of PWM Current Controlled APF Using Intelligence Controller**” International Review of Automatic Control (IREACO) **September 2013 (Vol.6, N.5).**Print ISSN: 1974 – 6059, E-journal ISSN: 1974 – 6067. Impact factor of IC: 6.68.
25. **Mr. P. Sasi Kiran, Dr. T. Gowri Manohar, Dr. S. Koteswara Rao, “Realization and Evaluation of Prony signal modeling”, International Journal of Enhanced Research in Science Technology and Engineering, ISSN : 2319-7463, Vol:2 Issue:10, October – 2013, PP: (78-84).**
26. **Mr. P. Sasi Kiran, Dr. T. Gowri Manohar, Dr. S. Koteswara Rao, and K. Bramaramba, “Evaluation of Maximum Entropy method of Spectrum estimation”, Coimbatore institute of information Technology International Journals, ISSN: 0974-9705, Issue: Nov. 2013, DOI: DSP112013001, IF:0.385.**
27. Mr. Mahesh Naik and Dr. T Gowri Manohar, “**Improvement of Power Quality in Wind Farm Integrated with Weak grid using Fuzzy Logic based UPQC**”, International Journal of Engineering Research and Applications, ISSN:2248-9622, Vol.3, Issue 6, Nov-Dec 2013, pp 2021-2028.
28. **Mr. P. Sasi Kiran, Dr. T. Gowri Manohar, Dr. S. Koteswara Rao, 'Estimating the Power Spectrum of a Wide Sense Stationary Random Process Using Parametric Approaches (AR, MA),International Journal of Recent Advances in Engineering & Technology(IJRAET) in Volume:2.Issue:2,Feb.-2014,ISSN(Online)-2347-2812.**
29. Mr. D.Mohan Reddy and Dr.T.Gowri Manohar.,”A Novel improving energy storage system using bidirectional isolated converter application to grid connected system” IJEEER Volume 4, Issue 2, **April 2014.** pp. 91-106 .ISSN(Print):2250-155X;E-ISSN:2278–943X;**Impact Factor(JCC): 5.6397.**

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30. Mr. P. Sasi Kiran, Dr. T. Gowri Manohar, Dr. S. Koteswara Rao, “**Application of MUSIC Algorithm to Power Quality Analysis: Detecting Inter harmonic components**”, CIIT International Journal of Digital Signal Processing, **ISSN: 0974-9705, Vol.6, No.5, Issue: July, 2014, DOI: DSP112013001, IF:0.385.**
31. A.Priyanka, Dr. T.Gowri Manohar and N. Damodar, “Remote End Energy Capturing And Monitoring Through Automatic Meter Reading”, International Journal of Advance Research in Electrical Electronics and Instrumentation Engineering, ISSN: 2278-8875, Vol. 4, Issue 2, March 2015.
32. Dr. T. Gowri Manohar, “**Optimal Sizing and Placement of Capacitor in Distribution System using Fuzzy and ANFIS**”, Global Journal of Trends in Engineering, e-ISSN: 2393-9923, **Vol.2, Issue 3, March 2015.**

33. Mr.P. Sasi Kiran, Dr.T. Gowri Manohar, Dr. S. Koteswara Rao, “**Kalman Filter with Application to Electric Power Quality Analysis**”, CIIT International Journal of Digital Signal Processing, **ISSN: 0974-9705**, Vol.7, No.2, **Issue: March, 2015**, DOI: **DSP112013001, IF:0.385**.
34. Mr.P. Sasi Kiran, Dr.T. Gowri Manohar " **A New Estimation Model to Control DVR For Mitigating Voltage Sags In Distribution Systems** ", Research Journal of Applied Sciences, Engineering and Technology, **ISSN: 2040-7459, Vol.9. United Kingdom, Maxwell Scientific Publications. (SCOPUS Journal)**
35. R. Siva Subramanyam Reddy and Dr. T. Gowri Manohar, “**Power Loss Reduction In Transmission System By Optimal Location Of Statcom For IEEE 30 Bus And IEEE 57 Bus System Using Matlab** "Journal on Engineering Power Systems"ISSN-2321-7499,February - April 2015.

## 2015-16

36. K. Homprakash and Dr. T. Gowri Manohar, “**Enhancement of Power Quality by using Renewable DG**”, International Journal of Advanced Research in Education & Technology (IJARET), Vol. 2, Issue 4, page no. 98-103, Dec 2015, ISSN : 2394-2975

## Seminars, Workshops, Courses attended

1. AICTE-ISTE Sponsored Short Term Course on "**Emerging Trends in Power System Operation and Control**" conducted by the Department of Electrical Engineering, Faculty of Engineering & Technology, Annamalai University, June 1-12, 2004.
2. UGC Sponsored Refresher Course on "**Simulation Tools for Electrical Engineering Applications**" conducted by JNTU, Hyderabad, Dec 6-25, 2004.
3. Faculty Development Program on "**Recent Trends in Power Systems**" conducted by Sree Vidyanikethan Engineering College, Rangampet, June 27-28, 2005.
4. AICTE Sponsored National Seminar on "**Power Electronics and Electric Drives and their Applications in Power Systems**" conducted by Sree Vidyanikethan Engineering College, Rangampet, July 14-15, 2007.
5. Workshop on “**Emerging Trends in VLSI Design**” conducted by SVU College of Engineering, Tirupati, July 28, 2007.
6. Induction Program for the New Faculty conducted by Sri Venkateswara University, Tirupati, Aug 7-11,2007.
7. Short Term Course on "**Application of Soft Computing Techniques to Power System Operation and Control**" conducted by the Department of Electrical Engineering, AU College of Engineering, Visakhapatnam, Oct 25-27, 2007.
8. Workshop on “**Electromagnetic Interference / Electromagnetic Compatibility**”, conducted by the Department of Electrical & Electronics Engineering, SVU College of Engineering, Tirupati, Sep 5<sup>th</sup>, 2008.

9. Workshop on “Smart Grid Technologies – Issues and Challenges”, conducted by the Department of Electrical & Electronics Engineering, SVU College of Engineering, Tirupati, 20<sup>th</sup> August 2011.
10. Workshop on “Thrust Areas in Power Systems”, conducted by the Department of Electrical & Electronics Engineering, JNTU College of Engineering, Pulivendula, during 18<sup>th</sup> – 19<sup>th</sup>, November, 2011.
11. Workshop on “Writing Effective Conference Papers”, conducted by, IIT Bombay (under MHRD), during 18<sup>th</sup> – 19<sup>th</sup>, February, 2012.
12. Workshop on “Aakash for Education”, conducted by IIT, Bombay (under MHRD), during 10<sup>th</sup> & 11<sup>th</sup> Nov 2012.
13. Faculty Development Program on "**Student Outcomes-Based Engineering Education for Enhanced Employability**" conducted by SVU College of Engineering, Tirupati, 5<sup>th</sup> Jan, 2013.
14. [Workshop on “CURRICULUM DESIGN & DEVELOPMENT”, conducted by the SVU College of Engineering, Tirupati, 13<sup>th</sup> & 14<sup>th</sup> July, 2013.]
15. Faculty Development Program on "VLSI Design Flow using Synopsys EDA Tools " conducted by SVU College of Engineering, Tirupati, during 12<sup>th</sup> – 13<sup>th</sup> April, 2013.
16. Faculty Development Program on "Developing Employability skills among students-industry perspective" conducted by SVU College of Engineering, Tirupati, 27<sup>th</sup> July, 2013.
17. International Workshop on “Role of Material Science in Engineering and Medicine” organized by Krishna Teja Technical Campus, Tirupati during 1<sup>st</sup> – 2<sup>nd</sup> October 2013.
18. Workshop on “Intellectual Property Rights” organized by IPR Cell, SV University, Tirupati on 15<sup>th</sup> March 2014.
19. FDP on “Intellectual Property Rights” organized by SVU College of Engineering, Tirupati on 8<sup>th</sup> July 2014.
20. Workshop on “Quality initiatives in technical & higher educational institutions” held at Engineering Staff College of India”, Hyderabad on 8<sup>th</sup> to 10<sup>th</sup> October, 2014.
21. Workshop on “Recent Developments in Smart Grid Technologies” organized by School of Electrical Sciences, IIT Bhubaneswar, Odisha, during 8<sup>th</sup> – 9<sup>th</sup> November 2014.
22. ISTE sponsored Workshop on “Renewable Energy” organized by BMS College of Engineering,, during 13<sup>th</sup> – 14<sup>th</sup> March 2015.



23. One day National Level Workshop on NIRF, organized by Eloit Innovations Pvt. Ltd at Andhra Loyola Institute of Engineering and Technology, Vijayawada, on 17-12-2015.

### **Guest Lectures Organized**

1. Guest Lecture by inviting Dr. P. V. Balasubramanaym, Joint Director, CPRI, Bangalore on 18-12-2008 to speak on “Power System Stability and Control”.
2. Two Day National Technical Symposium “SPARX-2012” during 10<sup>th</sup> & 11<sup>th</sup> March, 2012.
3. One Day National Technical Symposium “SPARX-2013” in March, 2013.
4. Two Day National Level Workshop “ROBOZEST” during 23<sup>rd</sup> & 24<sup>th</sup> Feb, 2013 in association with ROBSPECIES, Noida, UP.
5. Two Day National Level Workshop “ADVANCES IN POWER SYSTEMS” during 5<sup>th</sup> & 6<sup>th</sup> July, 2013 under TEQIP-II.
6. One Day National Technical Symposium “SPARX-2014” in March, 2014.
7. Workshop on “Initiatives for Quality Improvement in Engineering Education” organized SVU College of Engineering, Tirupati during 15<sup>th</sup> – 16<sup>th</sup> November 2014.
8. Two Day National Technical Symposium “SPARX-2015” in 30-31 March, 2015.
9. Organized three day College Cultural festival RHAPSODY during 11-13 April 2015.
10. Two Week Workshop on “Yoga and Meditation”, 15<sup>th</sup> – 28<sup>th</sup> Aug 2015.
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