

V. Vijaya Rama Raju

Areas of Interest: Synchrophasor applications in power systems, Smart Grid Technology, Power Quality, Renewable Energy

Education

- Ph.D., pursuing from JNTUH, Hyderabad
- M. Tech, NIT Warangal
- BE, S.R.K.R. Engineering College, Bhimavaram

Academic/Industrial Experience

1. Associate Professor, Electrical and Electronics Engineering, GRIET Hyderabad, 2005- till date
2. Assistant Professor, Electrical and Electronics Engineering, S.R.K.R. Engineering College, Bhimavaram, 1998-2005

R & D Projects

- 1."Low cost indigenous smart tracker for PV panels for improved efficiency" sponsored by MSME Government of India worth Rs 8Lakhs on 29 June 15.
- 2."Concentrated photo voltaic solar system" sponsored by MSME Government of India worth Rs 8Lakhs on 29 June 15

Selected Publications

1. V Vijaya Rama Raju, Dr J Praveen, "Development of Processes and Characterization of Ferro Magnetic Materials for Manufacture of Transformer Core and Motors for Higher Efficiency", Elsevier, ScienceDirect Materials Today: Proceedings 5 (2018) 4016–4021.
2. J Praveen, V VijayaRamaraju, "Materials for Optimizing Efficiencies of Solar Photovoltaic Panels", Elsevier, ScienceDirect Materials Today: Proceedings 4 (2017) 5233–5238.
3. V. Vijaya Rama Raju, Dr.S.V.Jayarama Kumar, "An Optimal PMU Placement method for Power System Observability", 2016 IEEE Power and Energy Conference at Illinois (PECI) organized by the Power and Energy Systems Group at the University of Illinois at Urbana-Champaign, USA February 19-20, 2016.
4. V. Vijaya Rama Raju, Divya Mereddy, "Smart Dual Axes Solar Tracking System", 2015 IEEE International Conference on Energy Systems and Applications (ICESA 2015) organized by Dr. D. Y. Patil Institute of Engineering and Technology, Pune, India 30 Oct – 01 Nov, 2015 sponsored by IEEE Pune section.
5. M.Chakravarthy, Srinivasa R Nookala, V.Vijaya Rama Raju, P.M.Sarma, "A Report on erection of Grid tied 100kW Solar Power Plant", International Conference On Electromagnetic Interference & Compatibility (INCEMIC 2015) organized by Andhra University, Visakhapatnam, in association with Society of EMC Engineers(India), 22 – 23 July, 2015.
6. Vinay Kumar.A, P M Sarma, V. Vijaya Rama Raju "Identification of Multi Input – Multi Output Control System Using MATLAB & LABVIEW", VIMANTRA 2013 – The National Technical Paper Contest for Research Scholars organized by National Instruments India, September 2, 2013.
7. Chakravarthy, V.Vijaya Rama Raju, P.M.Sarma, and Dr.S.N.Saxena "Automation of Testing Procedure for Electrical Machines Using PLC", Proc. of National Conference on Special Electrical Machines & Systems, 16-17 February, 2010, BHEL Corporate R&D Division, Hyderabad, A.P.,India.
8. V. Vijaya Rama Raju, M.Chakravarthy, P.M.Sarma, and Dr.S.N.Saxena "Reactive Power Compensation of Grid using DFIG", Proc. of National Conference on Special Electrical Machines & Systems, 16-17 February, 2010, BHEL Corporate R&D Division, Hyderabad, A.P.,India.

9. V. Vijaya Rama Raju, M.Chakravarthy, P.M.Sarma, and Dr.S.N.Saxena "Automatic Power Factor Correction using PLC," Proc. of National Conference on Advanced Controls, 26-27 November 2009, Gokaraju Rangaraju Inst. of Engg. and Tech.,Hyderabad, India.
10. V. Vijaya Rama Raju, M.Chakravarthy, P.M. Sarma, Dr. S.N. Saxena, "Microprocessor based Industrial Timer," Proc. of National Conference on Design, operation and control of Distribution Systems, 03-04 July 2009, Srinidhi Inst. of Sc. And Tech., Hyderabad, India.
11. V. Vijaya Rama Raju, M.Chakravarthy, P.M. Sarma, Dr. S.N. Saxena, "Closed Loop Control of a DC motor using Lab VIEW," Proc. of National Conference on Design, operation and control of Distribution Systems, 03-04 July 2009, Srinidhi Inst. of Sc. And Tech., Hyderabad, India.

Workshops Conducted/Attended

1. Participated in "Introductory Faculty Development Workshop Phase 1" conducted on 9-10, December, 2017 by TLC, at IIT Hyderabad.
2. Participated in Two Week ISTE STTP on "Electric Power System" conducted by IIT Kharagpur from 12 June 2017 to 15 July 2017 under NMEICT (MHRD) program at GRIET, Hyderabad and secured excellent grade.
3. Remote center Coordinator for Two Week ISTE STTP on "Electric Power System" conducted by IIT Kharagpur from 12 June 2017 to 15 July 2017 under NMEICT (MHRD) program at GRIET, Hyderabad.
4. Participated in one week short term course on 'Topics in Control, Operation and Protection of Power Systems', organized by Centre for Continuing Education Indian Institute of Science (IISc), Bengaluru, under Quality Improvement Programme of All India Council for Technical Education, New Delhi, during 10-14, April,2017.
5. Participated in two day Workshop on Smart Power Technologies at CPRI, Bangalore 01-02 December, 2016
6. Participated in Four Week AICTE approved FDP by IIT Bombay on - Use of ICT in Education for Online and Blended Learning at GRIET, from 2 May 2016 to 10 July 2016.
7. Participated in Two Day Workshop on "TI C2000 MCU for Real-Time Control Applications" organized by Department of Electrical and Electronics Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad during August 11 – 12, 2015.
8. Remote Center coordinator for Two Week ISTE STTP on "Environmental Studies" held under the National Mission on Education through ICT (MHRD) conducted by Indian Institute of Technology, Bombay at GRIET, from 2 -12 June, 2015.
9. Remote Center coordinator for Two Week ISTE STTP on "Introduction to Design of Algorithms" held under the National Mission on Education through ICT (MHRD) conducted by Indian Institute of Technology, Kharagpur at GRIET, from April 27 – May 30, 2015.
10. Completed LabVIEW Core 1 & Core 2 training organized by NI Instruments India Pvt. Ltd. at Hyderabad during February 23 – 27, 2015.
11. Participated in Two Day Workshop on "Advanced Softwares for Power System Simulation" organized by Department of Electrical Engineering, NIT Warangal, Warangal during February 21 – 22, 2015
12. Participated in Two Day Symposium on "Future of Indian Aerospace SoFIA- 2015" organized by Department of Mechanical and Aerospace Engineering, IIT Hyderabad at Prof. C.R. Rao Institute, Hyderabad during January 23 – 24, 2015
13. Workshop coordinator for Two Week ISTE STTP on "Pedagogy for Effective use of ICT in Engineering Education" held under the National Mission on Education through ICT (MHRD) conducted by Indian Institute of Technology, Bombay at GRIET, from January 05-31, 2015.
14. Remote Center coordinator for Two Week ISTE STTP on "Control Systems" held under the National Mission on Education through ICT (MHRD) conducted by Indian Institute of Technology, Kharagpur at GRIET, from December 2-12,

2014.

15. Remote Center coordinator for Two Week ISTE STTP on “Cyber Security” held under the National Mission on Education through ICT (MHRD) conducted by Indian Institute of Technology, Bombay at GRIET, from July 10 - 20, 2014.
16. Remote Center coordinator for Two Week ISTE STTP on “Computer Networking” held under the National Mission on Education through ICT (MHRD) conducted by Indian Institute of Technology, Bombay at GRIET, from May 28 - July 05, 2014.
17. Participated in Two Day Workshop on “Synchrophasor Applications to Power Systems” organized by Department of Electrical Engineering, A U College of Engineering, Andhra University, Visakhapatnam during 30 June – 1 July, 2014
18. Remote Center coordinator for Two Week ISTE STTP on “Computer Programming” held under the National Mission on Education through ICT (MHRD) conducted by Indian Institute of Technology, Bombay at GRIET, from May 20 - June 21, 2014.
19. Workshop coordinator for “Signals & Systems” Two Week ISTE Workshop held under the National Mission on Education through ICT (MHRD) conducted by Indian Institute of Technology, Kharagpur at GRIET, from 2 -12 January, 2014.
20. Attended the DST-SERB School on “Smart Transmission Grid using Synchrophasor Technology” held at IIT Kanpur during December 10-14, 2013.
21. Participated in one week coordinator’s workshop on “Signals & Systems” conducted by IIT Kharagpur from 30 September – 4 October, 2013
22. Participated in “Analog Electronics” a two week ISTE Workshop held under the National Mission on Education through ICT (MHRD) conducted by Indian Institute of Technology, Kharagpur at GRIET, from 4th to 14th June, 2013.
23. Participated in a two week Executive Education Programme on “Management Capacity Enhancement Programme for Administrative Heads of Higher Education Institutions” organized by Indian Institute of Management Bangalore during 11th – 23rd March, 2013.
24. Organizing member for “GRIET Industrial Expo 2013” conducted by Industry Institute Interaction Cell at Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad during 1st & 2nd March, 2013.
25. Workshop coordinator for “Smart Grid Technologies” conducted by Department of Electrical and Electronics Engineering at Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad on 09th February, 2013
26. Workshop Coordinator for Two Week ISTE workshop on “Introduction to Research Methodologies” conducted by IIT Bombay from 25 June to 04 July, 2012 held under The National Mission on Education through ICT (MHRD) at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad.
27. Participated in the National workshop on “Smart Grid and Integration of Renewable Energy Resources” organized by department of Electrical Engineering, NIT Warangal, from 22 - 24 December, 2011.

Guest Lectures National/International

1. Technical Talk #1

Organizer: School of Engineering, Cranfield University, Cranfield, Bedfordshire, United Kingdom

Course : ADWEA - ES046 Electric Power & Distribution Systems: Technical Aspects of Electrical Components

Duration : 5 Days (1-5 November, 2009)

2. Technical Talk #2

Organizer: School of Engineering, Cranfield University, Cranfield, Bedfordshire, United Kingdom

Course : ADWEA - ES044 Introduction to electrical engineering

Duration : 5 Days (2-6 May, 2010) & 5 Days (3-7 October, 2010)

3. Technical Talk #3

Organizer: Gokaraju Rangaraju College of Pharmacy, Hyderabad

Course : Introduction to Industrial Power system operation & maintenance

Duration : 6 Weeks (12 February, 2013 to 26 March 2013)

4. Technical Talk #4

Organizer: Malla Reddy Engineering College, Hyderabad, Telangana, India.

Course : Synchrophasor Measurements for Wide Area Monitoring and Control

Duration : 6 Days (11-16 July, 2016)

5. Technical Talk #5

Organizer: SR Engineering College, Warangal, Telangana, India.

Course : Application of LabVIEW for Network Analysis and Control Systems

Duration : 1 Day (02 October, 2016)

6. Technical Talk #6

Organizer: University of Antwerp, Antwerpen, Belgium.

Course : Smart Grid Technologies

Duration : 10 Days (12 – 22 May, 2017)

7. Technical Talk #7

Organizer: Police Communications Organization, Telangana Hyderabad

Course : Electrical Engineering

Duration: Phase -1 : 22 Days (06 – 28 November, 2017)

Phase -2 : 23 Days (05 – 28 February, 2018)