



**Dr.VEMPALLE RAFI**

Assistant Professor (C)

Department of EEE

JNTUA College of Engineering

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Date of Birth: 10/06/1986

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**Career Objective:**

- Accomplished educator with demonstrated ability to teach, motivate, and direct students while maintaining high interest and achievement.
- Consistently maintain excellent relations with students, parents, faculty and administrators.
- Self-motivated with strong planning, organizational and leadership skills.

**TEACHING EXPERIENCE:**

➤ More than 13 years of Teaching Experience.

S.No	Name of the Institution / Organization	Designation	Duration	No .of years
1	JNTUACEP , PULIVENDULA	Adhoc-Lecturer	05-02-2009 to 15-02-2011	2 Years
2	S.S.I.T.S , RAYACHOTY	Assistant Professor	25-06-2012 to 30-11-2014	2 Years 5 Months
3	JNTUACEP , PULIVENDULA	Assistant Professor (Contract)	16-12-2014 to Till Date	8 Years 10 Months

**EDUCATIONAL QUALIFICATIONS:**

S.No	Qualification	Name of the college / institution	Duration of Year	% of Marks	Division / class
1	Ph.D	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai	2017- 2023	--	--
2	M.Tech (EPS)	HITS , Hyderabad, JNTUH	2010-2012	73.19	First Class with Distinction
3	B.Tech (EEE)	GPREC , Kurnool ,SK University	2003-2007	71.40	First Class with Distinction
4	INTER	S.C.S.S Junior College ,Tirupathi	2001-2003	88.50	First Class with Distinction
5	SSC	Z.P.H.S, Peddamandyam	2001	80.83	First Class with Distinction

**SOFTWARE'S KNOWN:** MATLAB, P SPICE, P SIM and Ms Office.

## **Research Papers published:**

### **Scopus and Web of Science Indexed Journals and Conferences**

1. Vempalle Rafi, P.K. Dhal, M. Rajesh, D.R. Srinivasan, M. Chandrashekhar, N. Madhava Reddy, Optimal placement of time-varying distributed generators by using crow search and black widow - Hybrid optimization, Measurement: Sensors, Volume 30, 2023, 100900, ISSN 2665-9174, <https://doi.org/10.1016/j.measen.2023.100900>.
2. Kumar, M.S., Rayudu, T.S., Rafi, V. and Rajesh, M., 2023. A HW/SW CO-VERIFICATION METHOD FOR ASK USING FPGA TEST. Journal of VLSI Design and its Advancement, 6(2), pp.41-50.
3. Shaik Hussain Vali, K. Sri Lakshmi Gayathri Devi and Vempalle Rafi (2023), AN IMPROVEMENT OF STABILITY AND DYNAMIC RESPONSE IN HYBRID AC-DC MICROGRIDS USING OPTIMAL POWER CONTROL MANAGEMENT. ARPN Journal of Engineering and Applied Sciences, Vol 18, No 6, March 2023.
4. Shaik Hussain Vali, V. Naveen Krishna and Rafi Vempalle (2023), UNIT COMMITMENT USING HARMONY SEARCH ALGORITHM WITH VARYING INITIAL STATUS. ARPN Journal of Engineering and Applied Sciences, Vol 18, No 6, March 2023.
5. Vempalle, R. and Dhal, P. K., (2022), Optimal analysis of time varying load radial distribution system with photovoltaic and wind generating system using novel hybrid optimization technique. Renewable Energy Focus, 41, pp.246-257.
6. Vempalle, R. and Kumar, D. P., (2022), An intelligent optimization technique for performance improvement in radial distribution network. International Journal of Intelligent Unmanned Systems, (ahead-of-print).
7. Vempalle, R. and Dhal, P. K., (2021), Maximization of economy in Distribution Networks with most favorable Placement of Type-1 and Type-2 Distributed Generators Along with Reorganization Using PSO-WOA Hybrid Optimization Algorithm. ARPN Journal of Engineering and Applied Sciences, Vol 16, No 22.
8. Reddy, P.J., Kumar, G.N., Rafi, V., Sobhan, P.V. and Bharathi, M.A., (2021). Wind-Hess System with a Fuzzy base Control Method. REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS, 11(3), pp.1872-1882.
9. Sindhu, M., Kumar, G.N., Rafi, V., Kumar, B.S. and Bharathi, M.A., (2021). Optimal Power Flow in Deregulated Power Systems by Using Optimization Techniques. REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS, 11(3), pp.1883-1901.
10. Vempalle, R. and Dhal, P.K., (2020). Loss minimization by reconfiguration along with distributed generator placement at radial distribution system with hybrid optimization techniques. Technology and Economics of Smart Grids and Sustainable Energy, 5, pp.1- 12.
11. Rafi, V. and Dhal, P.K., (2020). Maximization savings in distribution networks with optimal location of type-I distributed generator along with reconfiguration using PSO-DA optimization techniques. Materials Today: Proceedings, 33, pp.4094-4100.
12. Rafi, V. and Dhal, P.K., (2019). Loss Minimization by Reconfiguration in Radial Distribution Network using Whale Optimization Technique. International Journal of Innovative Technology and Exploring Engineering (IJITEE) Volume-9 Issue-2, December 2019.
13. Sivaleela, M., Valli, S.H., Rafi, V. and Kumar, G.N., 2023, April. Multilevel Boost Inverter

with Switched Capacitor for Smart Grid Applications. In 2023 7th International Conference on Trends in Electronics and Informatics (ICOEI) (pp. 118-122). IEEE.

14. Kumar, R.A., Valli, S.H., Rafi, V. and Kiranmayi, R., 2023, April. Fuzzy Logic Control for Solar based PV-Battery Storage System with MPPT Technique. In 2023 7th International Conference on Trends in Electronics and Informatics (ICOEI) (pp. 340- 344). IEEE.
15. Singarappa, J., Vali, S.H., Rafi, V. and Kumar, K.V., 2023, May. Distribution state estimation and its impact of load modelling. In AIP Conference Proceedings (Vol. 2492, No. 1). AIP Publishing.
16. Rafi, V., Nadendla, S., Nayak, V.B., Reddy, K.V.N.S., Kumar, G.U. and Maniteja, A., 2023, April. Minimization of Losses in 119 Bus Radial Distribution Network using PSO Algorithm. In 2023 7th International Conference on Trends in Electronics and Informatics (ICOEI) (pp. 927-932). IEEE.
17. Obulamma, I., Kumar, G.N. and Rafi, V., 2022, April. Implementation of Fuzzy Logic Controller for Battery-Smes Based DVR to Improve Voltage Profile in Grid Connected PV-Wind System. In 2022 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS) (pp. 854-860). IEEE.
18. Manjeera, P., Kumar, G.N. and Rafi, V., 2022, January. Design and Implementation of Fuzzy logic-2DOF controller for Emulation of wind turbine System. In 2022 12th International Conference on Cloud Computing, Data Science & Engineering (Confluence) (pp. 191-196). IEEE.
19. Shareef, S.J., Kumar, G.N. and Rafi, V., 2022, April. Analyse and Implement a Switching Bi-Lateral Buck-Boost Converter for the G2V System using FLC in EV- HESS. In 2022 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS) (pp. 850-853). IEEE.
20. Yasmin, S., Kumar, G.N., Rafi, V., Yamuna, P. and Sailaja, K., 2022, November. Design of Bi-Directional Charger for Electric Vehicle. In 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM) (pp. 1-6). IEEE.
21. Hemanth, T., Kumar, G.N. and Rafi, V., 2022, August. An Enhanced Control Procedure for that DVR to accomplish both LVRT and HVRT in the DFIG Wind Turbine. In Journal of Physics: Conference Series (Vol. 2325, No. 1, p. 012026). IOP Publishing.
22. Prem Kumar, G., Nagesh Kumar, G.V. and Rafi, V., 2022. Optimal Solution of Economic Emission Load Dispatch Using a Hybrid Technique. In Advances in Electrical and Computer Technologies: Select Proceedings of ICAECT 2021 (pp. 995-1005). Singapore: Springer Nature Singapore.
23. Bhargavi, G., Nagesh Kumar, G.V. and Rafi, V., 2022. Solution of Unit Commitment Using Genetic Algorithm with Population Refreshment. In Advances in Electrical and Computer Technologies: Select Proceedings of ICAECT 2021 (pp. 1007-1017). Singapore: Springer Nature Singapore.
24. Dhal, P.K., Rafi, V., Narayana, R.J.P., Poojitha, K., Abhigna, V. and Swetha, M., 2022, April. Loss Minimization by Reorganization in Distribution Network using WOA Technique. In 2022 6th International Conference on Trends in Electronics and Informatics (ICOEI) (pp. 721-726). IEEE.
25. Chaithanya, K.K., Kumar, G.N., Rafi, V. and Kumar, B.S., 2021, November. Optimal setting of interline power flow controller in deregulated power systems congestion management by

- using artificial intelligent controllers. In Journal of Physics: Conference Series (Vol. 2070, No. 1, p. 012127). IOP Publishing.
26. Patri, S.D., Vali, S.H. and Rafi, V., 2021, August. Battery charging using a hill climbing mppt algorithm and heuristic algorithm (mppt). In 2021 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT) (pp. 91-96). IEEE.
  27. Padma, R., Vali, S.H. and Rafi, V., 2021, June. Reducing fault current by adaptive stabilizer in distribution system. In 2021 international conference on intelligent technologies (CONIT) (pp. 1-9). IEEE.
  28. Navaneetha, C., Kumar, G.N. and Rafi, V., 2021, June. Reactive power sharing in Islanded microgrid by using voltage recovery operation of droop control strategy. In 2021 international conference on intelligent technologies (CONIT) (pp. 1-7). IEEE.
  29. Ummadisingu, M.V., Kumar, G.N. and Rafi, V., 2021, December. Design and Analysis of a Neural Networks Based Parallel Buck-Boost Converter to Improve Stability in DC Micro-Grid. In 2021 IEEE 2nd International Conference On Electrical Power and Energy Systems (ICEPES) (pp. 1-6). IEEE.
  30. Divya, K.N., Kumar, G.N., Pakalapati, J., Kumar, B.S., Sobhan, P.V.S. and Rafi, V., 2021, December. Assessing the Risk of Reliability of Three Phase GIS Under Various Multiple Abnormalities. In 2021 IEEE 2nd International Conference On Electrical Power and Energy Systems (ICEPES) (pp. 1-6). IEEE.
  31. Srinivasulu, B., Kumar, G.N., Rafi, V. and Rao, P.N., 2021, November. Optimal Design of SRM for EV Application. In Journal of Physics: Conference Series (Vol. 2070, No. 1, p. 012140). IOP Publishing.
  32. Kumar, B.S., Vali, S., Rafi, V. and Reddy, G.N., 2021, November. Optimal value of Economic Load Dispatch using Swarm Algorithm. In Journal of Physics: Conference Series (Vol. 2070, No. 1, p. 012136). IOP Publishing.
  33. Rao, B.M., Kumar, G.N. and Rafi, V., 2021, November. Artificial Neural Network Controller Strategy for Improving DC Link Voltage of Grid Connected Hybrid PV-Wind Generation Systems. In Journal of Physics: Conference Series (Vol. 2070, No. 1, p. 012133). IOP Publishing.
  34. Praveen, D.K., Vali, S. and Rafi, V., 2021, November. A Novel Fast Hybrid Frequency Domain Approach for Evaluating Harmonic Power Flow in Electricity Networks. In Journal of Physics: Conference Series (Vol. 2070, No. 1, p. 012134). IOP Publishing.
  35. Vahid, S., Rafi, V., Nageshkumar, G.V., Ganesh, Y., Preethi, R. and NandaKishore, O., 2021, August. Stabilizing Voltage Fluctuations in Wind Energy Conversion System using Arduino controlled Buck-Boost Converter. In 2021 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT) (pp. 813- 817). IEEE.
  36. Kumar, G.N., Bhavya, A., Balaji, J., Dhanunjay, S., Vikasitha, P. and Rafi, V., 2021, August. Smart Home Light Intensity Control using Potentiometer method for Energy Conservation. In 2021 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT) (pp. 371-375). IEEE.
  37. Rafi, V. and Dhal, P.K., 2020, January. Loss Minimization based Distributed Generator Placement at Radial Distributed System Using Hybrid Optimization Technique. In 2020 International Conference on Computer Communication and Informatics (ICCCI) (pp. 1- 6). IEEE.

38. Vempalle, R. and Dhal, P. K., (2020), Optimal Placement of Distributed Generators in Optimized Reconfigure Radial Distribution Network using PSO-DA Optimization Algorithm. In 2020 International Conference on Advances in Computing, Communication & Materials (ICACCM) (pp. 239-246). (IEEE Xplore )

#### **UGC Care and Google Scholar Journals**

1. K.Ravisankar,T.Obulesu, Vempalle Rafi,V.V.Krishna Reddy, Madyala Venkata Sailikitha’’DESIGN AND SIMULATION OF MULTI LEVEL IMPEDANCE FED CONVERTER’’ in Industrial Engineering Journal (ISSN: 0970-2555), Volume : 52, Issue 8, August : 2023.
2. Reddy, S.R.K., Rafi, V. and Subrahmanyam, J., 2012. A novel on coordinated voltage control scheme for SEIG-Based wind park utilizing substation statcom and ULTC transformer. Global Journals of Research in Engineering, 12(F5), pp.23-28.
3. Rafi, V., Kumar, G.U.S., Prashanthi, G., Reddy, K.V.N.S., Lahari, M.G., Nayak, V.B. and Maniteja, A., 2023. AUTOMATIC BILLINGSYSTEM BY USING REAL TIME CLOCK. reason, 52(4).
4. Vali, S.H., Baba, O. and Rafi, V., Juni Khyat ISSN: 2278-4632 (UGC Care Group I Listed Journal) Vol-13, Issue-01, No. 03, January 2023.
5. Vali, S.H., Karimulla, G. and Rafi, V., THD MITIGATION IN GRID-TIED SOLAR PV SYSTEM WITH THE MULTI-LEVEL INVERTER AND MMPT BY THE ANN CONTROLLER.
6. Vali, S.H., Kalyan, K.V.S., Rafi, V. and Kumar, K.V., DESIGN AND IMPLEMENTATION OF PEAK CURRENT DETECTION BASED MULTILEVEL INVERTER FOR PV ARRAY FED BLDC MOTOR DRIVE FOR IRRIGATION PUMP APPLICATION.
7. Sree, P.B., Kumar, B.B., Rakshitha, G., Rakesh, P., Kumar, G.N., Rafi, V., Yeshwanth, P. and Reddy, S.V.R., A STUDY ON RELIABILITY OF INSULATORS USING ARTIFICIAL INTELLIGENCE TECHNIQUES.
8. Valli, S.H., Rafi, V., Chandu, C.H., Sindhu, T., Sreshtareddy, L., Sudhamani, D. and Supriyabai, R., LIFI BASED TEXT COMMUNICATION BETWEEN TWO AUDINO.
9. Vali, S.H., Rafi, V., Meenakshi, P., Sivaleela, M., Kumar, G.N. and Dhal, P.K., STUDY OF NON-IDEALITIES OF DC-DC CONVERETERS AND DESIGN USING SIMULATION.
10. Vali, S.H., Tanzeel, S.S., Lavanya, B., Karthik, M.G., Thomateja, A., Rafi, V. and Shajid, S., SEWAGE MONITORING AND MAINTENANCE ALERT USING IOT.
11. Yoganandareddy, K., Hemanth, M., Rushyasree, T., Dedeepya, C., Kumar, G.N., Rafi, V. and Hineesha, P., A STUDY OF ENVIRONMENTAL EFFECTS ON VARIOUS INSULATORS AND ASSESSING THEIR RISK.
12. Reddy, V.K., Murali, N., Tejasree, P., Sowmya, N., Dharmasai, C.J., Rafi, V. and Swetha, M.S., DEVELOPMENT OF PORTABLE WIND ENERGY SYSTEM.
13. Rafi, V., Swetha, V., Princy, P., Lakshmi, V.M., Sharma, T. and Yaswanth, M., DEVELOPMENT OF AUTO IRRIGATION SYSTEM USING SOIL MOISTURE SENSOR AND RAIN SENSOR.

14. Yamuna, P., Gayatri, K., Meena, S., Kumar, S.H., Hemanth, T., Rafi, V., Pooja, A. and Sailaja, K., MODREN BLIND STICK BY USING SUITABLE SENSORS.
15. Reddy, S.R.K., Rafi, V. and Subrahmanyam, J., 2012. A novel on coordinated voltage control scheme for SEIG-Based wind park utilizing substation statcom and ULTC transformer. **Global Journals of Research in Engineering**, **12(F5)**, pp.23-28.
16. V.RAFI “Published a research paper entitled Design and Analysis of ANN Based Unified Power Quality Controller in **IJPRES Volume III/ Issue 3/ SEP2014**.
17. V.RAFI “ Published a research paper entitled A Novel Reactive Power Compensation by Using Cascaded Two-Level inverter based STATCOM for High Power Applications” in **IJAREEIE, Volume 5, Issue 10, October 2016**.
18. V.RAFI “ Published a research paper entitled Distributed MPPT for Grid Applications using Multi-Level H-Bridge PV Inverter in **IJITECH ISSN (2321-8685)Volume 05/ Issue 08/ August -2017**.

#### Patents Published:

S.No.	Application Number	Title of the Patent	Date applied	Date published	Publication URL
1	<b>202241074118</b>	SOLAR HOME AUTOMATION AND SECURITY SYSTEM	21.12.22		
2	<b>202311040697 A</b>	IMPLEMENTATION OF OPTIMIZATION MODELS FOR REDUCING THE ELECTRICITY LOADS IN RESIDENTIAL DISTRIBUTION SYSTEMS THROUGH MACHINE LEARNING APPROCHES	15/06/2023	14/07/2023	

#### Books /Book Chapters published

S.No	Month and Year of Publication	Title of the Book	Name of the Publisher	ISBN/ISSN Number	Publication URL
1	June-2022	Advances in Electrical and Computer Technologies	Springer	978-981-19-1110-1	<a href="https://link.springer.com/chapter/10.1007/978-981-19-1111-8_77">https://link.springer.com/chapter/10.1007/978-981-19-1111-8_77</a>
2	June-2022	Advances in Electrical and Computer Technologies	Springer	978-981-19-1110-1	<a href="https://link.springer.com/chapter/10.1007/978-981-19-1111-8_78">https://link.springer.com/chapter/10.1007/978-981-19-1111-8_78</a>
3	Feb-2023	Basic Electrical Engineering	GOOD WRITERS	978-93-5756-898-2	<a href="https://www.amazon.in/Electrical-Engineering-Vempalle-J-B-V-Subrahmanyam-">https://www.amazon.in/Electrical-Engineering-Vempalle-J-B-V-Subrahmanyam-</a>

					Srinivasula/dp/B0C1XNY M3T
4	Sep-2023	Sustainable Energy and Technological Advancements	Springer	eBook 978-981-99-4175-9 Print 978-981-99-4174-2	<a href="https://link.springer.com/chapter/10.1007/978-981-99-4175-9_13">https://link.springer.com/chapter/10.1007/978-981-99-4175-9_13</a>

#### Number of Training & Workshop organized:

S.No.	Title of Training Program/ Workshop/FDP etc	Date	Target Audience
1.	SCADA	16.03.2023	100
2.	Design of Electrical Vehicles by using Matlab	17.03.2023	100
3.	ECAD for Buildings	10-16,October-2022	80

#### Scopus/Orcid/web of science/Vidwan Details:

- Scopus Author ID: **57217302455**
- Web of Science ID : **AET-8181-2022**
- Orcid ID: **0000-0001-5582-4179**
- Vidwan ID : **320174**
- Google Scholar ID: **WPH3YZkAAAAJ**

#### Academic Projects:

- **Ph.D** : POWER SYSTEM RECONFIGURATION USING DIFFERENT HEURISTIC ALGORITHMS TO MINIMIZE THE LOSSES IN DISTRIBUTION SYSTEM
- **M.Tech** : VOLTAGE CONTROLLED SEIG-BASED WIND SUBSTATION USING FACTS DEVICE AND ULTC TRANSFORMER



### Conferences /Workshops/FDP/Webinar Details:

S.No.	Workshop/Seminar/FDP/Conference /Other	Organized by	Title	Date (s) conducted
1	Workshop	JNTUACEP, Pulivendula	SCADA & Design of Electrical Vehicles by using Matlab	16.03.2023&17.03.2023
2	Workshop	GPREC,Kurnool	Opportunities and Challenges in IT Sector:Software Mastery Boot-Camp-Unlockyour Potential	06.03.2023 to 11.03.2023
3	Workshop	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,Avadi, Chennai-62.	Prototype / Process Design and Development	30.03.2023
4	Webinar	STMTEC,Thoothukudi	Role of Intellectual Property Rights in Economic Growth	30.03.2023
5	FDP	RGM CET,Nandyal	Python For Electrical and Electronics Engineering: A FacultyDevelopment Program on Python Applications	27.03.2023 to 31.03.2023
6	Webinar	STMTEC,Thoothukudi	BUSINESS MODEL CANVAS	10.04.2023
7	Conference	Fifth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2023) is jointly organized by Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India and Diligentec Solutions, Coimbatore, India during 13th-14th April 2023.	Grid-Connected Converters Active Power Flow Control under Unbalanced Conditions by Fuzzy Technique	13th-14th April 2023.
8	Conference	Fifth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2023) is jointly organized by Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India and Diligentec Solutions, Coimbatore, India during 13th-14th April 2023.	THD Reduction in a Grid-Connected Solar PV System with a Multilevel Inverter and MPPT Controlled by ANN Controller	13th-14th April 2023.
9	Conference	Fifth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2023) is jointly organized by Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India and	Multi-Level Inverter Fed BLDC Motor Drive Irrigation Pump Application Using Peak Current Detection Method	13th-14th April 2023.

		Diligentec Solutions, Coimbatore, India during 13th-14th April 2023.		
10	Conference	Fifth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2023) is jointly organized by Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India and Diligentec Solutions, Coimbatore, India during 13th-14th April 2023.	Design and Analysis of Multilevel Inverter for Electric Vehicle by using the ANN	13th-14th April 2023.
11	Conference	Fifth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2023) is jointly organized by Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India and Diligentec Solutions, Coimbatore, India during 13th-14th April 2023.	Loss Minimization by Reorganization in Distribution Network Using PSO Algorithm	13th-14th April 2023.
12	Conference	4th Electric Power and Renewable Energy Conference (EPREC-2023) is being organized by Department of Electrical Engineering, National Institute of Technology Jamshedpur, India during May 25-27, 2023.	Severity of Delamination on Single Phase Gas Insulated Busduct	May 25-27, 2023.
13	Conference	4th Electric Power and Renewable Energy Conference (EPREC-2023) is being organized by Department of Electrical Engineering, National Institute of Technology Jamshedpur, India during May 25-27, 2023.	Implementation of Multifunctional Electric Vehicle Charger Based on ANFIS with Solar PV Array	May 25-27, 2023.
14	Two Days Professional Development Program	Power System Division, CPRI, Bangalore	SMART GRID & INTERNET OF THINGS	02nd & 03rd Feb- 2017
15	Two Days Professional Development Program	Power System Division, CPRI, Bangalore	POWER QUALITY CHALLENGES WITH RE INTEGRATION IN SMART GRID	23rd & 24th Feb-2017
16	Five Days Professional Training Program	ECE Department, NIT, Surat	Paper and Article Writing with LaTeX	21st to 25th Jan-2017
17	Two Days National Level Work Shop	Department of ELECTRICAL ENGINEERING, JNTUACEP, Pulivendula	RELIABILITY APPLICATION TO POWER SYSTEMS	26th & 27th July-2013
18	Two Days National Level Hands On Training Program	Department of ELECTRICAL ENGINEERING, JNTUACEP, Pulivendula	ANALYSIS OF POWER SYSTEMS BY USING NEPLAN SOFTWARE	30th & 31st January-2014

#### **DUTIES ACCOMPLISHED:**

- Successfully completed my duty as a Staff coordinator for PHASOR2K23.
- Worked as a Time table Coordinator & Project coordinator for academics.
- Scheduling test to assess the growth and learning of the students.

- Periodically teaching them social and human behavior.
- Conducting presentation by the students on different topics for their development.
- Served as Deputy Warden Boys Hostel, JNTUACEP

**Research Interests:** Power Systems, Reconfiguration, Optimization Techniques, Economic Load Dispatch  
and Unit Commitment

**SUBJECTS TAUGHT:**

- |   |                              |
|---|------------------------------|
| 1. Basic Electrical Engineering                   | 7. Power Systems - I         |
| 2. Transmission of Electrical Power               | 8. Power System Analysis     |
| 3. Network Theory                                 | 9. Switch Gear & Protection  |
| 4. Reliability Engg & Application to Power System | 10. Control Systems          |
| 5. Energy Auditing and Conservation Management    | 11. Renewable Energy Sources |
| 6. Electrical Circuits                            | 12. Power Quality            |

**LABS HANDLED:**

1. Electrical Machines – I.
2. Electrical Machines – II.
3. Electrical Circuits.
4. Electrical Engineering Lab
5. SES Lab
6. BEEE Lab
7. Electrical Measurements Lab
8. Power system and simulation Lab
9. Machines and Power systems Lab
10. Control Systems Lab

**PROJECTS GUIDED:**

1. 14 Projects Guided for B.Tech.
2. 6 Projects Guided for M.Tech.

**HOBBIES:**

- Playing Cricket
- Playing Carroms
- Playing Badminton
- Watching Movies
- Reading Books

**Personal Details**

- |                           |   |  |
|---------------------------|---|--|
| a. Name                   | : | Dr Vempalle Rafi   |
| b. Father Name            | : | Late V.Vusenaiah   |
| c. Mother Name            | : | Smt. V.Aniffa Bee  |
| d. Gender                 | : | Male   |
| e. Date of Birth          | : | 10-06-1986   |
| f. Category (OC/BC/SC/ST) | : | BC-B   |
| g. Current Designation    | : | Assistant Professor (C)  |
| h. Aadhaar Number         | : | 931520239001   |
| i. Residential Address    | : | 7/40-C, Revenue Ward no<br>7, MASapeta, Rayachoty, Ananmayya(dist)-<br>516269, Andhra Pradesh, India |
| j. Email-id (P)           | : | <a href="mailto:vempallerafi@gmail.com">vempallerafi@gmail.com</a>                                   |
| k. Email-id (O)           | : | <a href="mailto:rafi.eee@jntua.ac.in">rafi.eee@jntua.ac.in</a>                                       |
| l. Mobile                 | : | +91-9701424303/8142479395  |

**Declaration:**

I hereby declare that, the above given information is true and fact according to my knowledge.

Place: Masapeta

Date:

**( Dr.V. RAFI )**