



Dr. G. Joga Rao

Associate Professor & HOD

Department of Electrical & Electronics Engineering

Raghu Engineering College (Autonomous), Visakhapatnam, A.P

Email : jogarao.ganta@raghuenggcollege.in

Interests: Power Engineering, Renewable Energy Technologies, smart and micro grids

Course Taught Previously

PG:

- Flexible AC Transmission Systems
- Digital Control Systems
- Power Electronic & Drives

UG:

- Electrical Machines
- Control Systems
- Power Systems
- Electrical Circuits
- Digital Control Systems
- Electro Magnetic field
- Electrical Vehicles
- Linear System Analysis
- Electrical Distribution Systems
- Basic Electrical Engineering
- Network Analysis,
- Power Electronics
- Electrical Measurements.

Labs handled & Manual Prepared:

- Electrical Simulation Lab
- Power Electronics Lab
- Electrical Measurements Lab
- Electrical Circuits Lab
- Control Systems Lab
- Electrical Machines Lab

AICTE-DST-Funding Projects:

- Received the Grant In-Aid R.s 12, 00,000/- (Twelve Lakh Rupees only) for the “Modernization of Power Electronics and Drives” Laboratory from AICTE, New Delhi, GOI under MODROB Scheme.

File No: RIFD/MOD/Policy-1 / 2018-19 Dated: 4th Dec 2019.

Status: Project Completed & UC Submitted

Membership of Professional Bodies, Societies:

- Life member of ISTE - LMISTE-63606
- Member in Institute of Engineers (India) M-1650445
- Member in Institute for Engineering Research and Publication

Professional & Administrative Experience:

- Currently working as an Associate Professor & HOD in REC, Visakhapatnam from July-2023 to till
- Associate Professor & HOD – RIT, Visakhapatnam from May-2017 to June- 2023
- Associate Professor - RIT Visakhapatnam from Nov-2016 to April- 2017
- Associate Professor & HOD- CEC, Chirala from July-2010 to Jan- 2014
- Assistant Professor - CEC, Chirala from June-2007 to June- 2010
- Lecturer - BEC, Nirmal from July-2004 to July- 2005

Additional Responsibilities:

RIT, Visakhapatnam, A.P:

- Head of the Department (2017-2023)
- Chairman -Board of studies (2018-2023)
- Convener -EDP(Entrepreneurship Development Program) Cell (2017 - 2021)
- Coordinator –NAAC Department of EEE (2017-2023)
- Faculty advisor - IE (I) student Chapter (2019-2022)
- Convener - Exam section Audit Committee (2022-2023)
- Member -IQAC(Internal Quality Assurance Cell) (2020 - 2022)
- IPR Coordinator of 'Institution's Innovation Council (IICs) 2022-2023

CEC, Chirala, A.P:

- Head of the Department (2010-2014)
- Member -Academic Committee (2010 - 2014)
- Coordinator –EEE department NAAC (2013-2014)
- Coordinator – EEE department NBA (2009-2010)
- Member- IQAC(Internal Quality Assurance Cell) (2013 - 2014)
- Convener -Library Committee (2012-2013)
- Store Officer (2011-2013)
- Coordinator - Department ISO (2010-2014)

BEC, Normal, T.S:

- Class In-Charge (2004-2005)

AICTE Online FDP Courses:

- Successfully completed the 5-day online FDP on the theme “Inculcating Universal Human Values (UHV) in Technical Education” organized by All India Council for Technical Education (AICTE) from 19th September to 23rd September 2022.
- Successfully completed of 4 weeks online FDP course on “Effective Engineering Teaching in Practice” in 2023
- Successfully completed of 4 weeks online FDP course on “Electric Vehicle part-1” in 2019
- Successfully completed of 12 weeks online FDP course on “Control Theory” in 2019
- Successfully completed of 12 weeks online FDP course on “Control Theory” in 2018

NPTEL-AICTE Courses

- Successfully completed “Effective Engineering Teaching in Practice” with ELITE Grade with silver medal in 2023
- Successfully completed (Electric Vehicle-1) with ELITE Grade in 2019
- Successfully completed (Control Theory) in 2019
- Successfully completed (Control Theory) in 2018

Patents:

- Published an Indian patent “An Automatic Upholstery Material Cleaning” with Patent No-202341001421 on 13-01-2023

Technical Skills:

- ❖ Languages: MS Office, Excel
MATLAB/SIMULINK, PSPICE

Faculty Development Program & Short-Term Courses:

- [1] Completed online Certification Energy Literacy Short term course on “Learn to Design your own Solar Home System-Energy” conducted by Energy Swaraj Foundation June-2020
- [2] Attended one-week Online FDP-Modern Trends on Electric Drives on 19-23 May-2020 at NIT, Nagpur
- [3] Attended one-week online FDP-Modern Trends On “Cutting Edge Technologies for Electrical Engineering” 18 May-2020 at AIET, A.P
- [4] Attended a Faculty Development Program at IIT Madras on -2014.
- [5] Participated in the HOD & Faculty Orientation Program conducted by JNTUK Centre of Excellence for e-Resource Development & Deployment (CoEeRD) and Globarena Technologies Pvt.Ltd held at QIS College of Engineering & Technology on -2014.
- [6] Attended Short term course on “Effective e-Teaching and Learning” conducted by IIIT Bangalore Nov-2011

Online Courses:

- [1] Coursera Online course (COVID-19 Contact Tracing) successfully completed in 2020
- [2] Coursera Online course (Basic Artificial Neural Networks in Python) successfully completed in 2020
- [3] Coursera Online course (Electric Power Systems) successfully completed in 2020
- [4] Coursera Online course (Wind Energy) successfully completed in 2020
- [5] Udemy Online course (How to use smart goals Achieve more in less time) completed in 2020
- [6] Udemy Online course (IoT Crash Course) successfully completed in 2020
- [7] Analytics Academy Online course successfully completed (Advanced Google Analytics) in 2020

Academic Achievements:

- Completed “Effective Engineering Teaching in Practice” with ELITE Grade with silver medal in 2023
- Got Certificate of Appreciation in the spirit of gratitude of outstanding contribution to “Asian E-Bike & Pro-Kart Challenges” Season-3 as a Faculty Advisor Organized by Imagine to Innovate at Raghu Educational Institutions, Visakhapatnam from 25th -29th Sept. 2019.

Research Area:

- Renewable Energy Technologies
- Smart grid Technologies & Micro-grid

Research Profile:

- ORCID: 0000-0002-1471-9847
- Scopus ID: 57193772127
- Scholar: [i2wYbPoAAAAJ](#)
- Vidwan ID: 171192

Paper Publication & Conferences:

Publications:

- [1] G. Joga Rao “Simulation and Analysis of Multilevel Inverter Fed Brushless DC Motor Drive” International Journal of Recent Technology and Engineering (IJRTE) Volume-10 Issue-2, July 2021. Pp. 26-35 DOI: 10.35940/ijrte.B5985.0710221 (**SCOPUS INDEXED**)
- [2] G. Joga Rao “THD Minimization in Cascaded H-Bridge Inverter using Optimal Selective Harmonic Elimination” International Journal of Recent Technology and Engineering (IJRTE) Volume-10 Issue-2, July 2021. Pp. 170-174 DOI: 10.35940/ijrte.B5984.0710221 (**SCOPUS INDEXED**)

[3] G. Joga Rao "A Novel Method for Starting of VSC-HVDC System" International Journal of Recent Technology and Engineering (IJRTE) Volume-10 Issue-2, July 2021. Pp. 175-180 DOI: 10.35940/ijrte.B6009.0710221 **(SCOPUS INDEXED)**

[4] G. Joga Rao "A Reduced Switch Count Seven Level Symmetrical Inverter with Low Distortion" International Journal of Recent Technology and Engineering (IJRTE) Volume-10 Issue-2, July 2021. Pp. 181-186 DOI: 10.35940/ijrte.B6032.0710221 **(SCOPUS INDEXED)**

[5] G. Joga Rao "Active Power Controller based DSTATCOM Controller Scheme for Distorted Load Compensation" IJIRT 152450 INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY. Pp. 996-1001 August 2021 | IJIRT | Volume 8 Issue 3 | ISSN: 2349-6002

[6] G. Joga Rao, "Modeling and Design of Cascaded h-bridge type multi-level Inverters up to Thirty-one level for the Reduction and Performance Improvement" International Journal of Recent Technology and Engineering (IJRTE), Volume-10 Issue-2, July 2021. PP: 129-134 **(SCOPUS INDEXED)**

[7] G. Joga Rao, "Application of CUK and ZETA Dc-Dc Choppers for Power Factor Correction and Power Quality Improvement of BLDC Motor" International Journal of Recent Technology and Engineering (IJRTE), Volume-9 Issue-2, July 2020. Pp. 976-983 **(SCOPUS INDEXED)**

[8] G. Joga Rao, "Modelling and Design of Solar PV Cell Using MATLAB/Simulink" International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN : 2394-4099, Print ISSN : 2395-1990, Volume 7 Issue 2, pp. 50-55, March-April 2020 DOI : 10.32628/IJSRSET207226

[9] G. Joga Rao, "Health Monitoring System of Patient Using IoT" International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN: 2394-4099, Print ISSN: 2395-1990, Volume 7 Issue 2, pp. 56-65, March-April 2020 DOI: 10.32628/IJSRSET207226

[10] G. Joga Rao, "An Optimized Three-Phase Multilevel Inverter Topology with Separate Level and Phase Sequence Generation Part" International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN: 2394-4099, Print ISSN: 2395-1990, Volume 7 Issue 2, pp. 90-97, March-April 2020 DOI: 10.32628/IJSRSET207226

[11] G. Joga Rao, "Speed Control of AC Motor Using GSM" International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN: 2394-4099, Print ISSN: 2395-1990, Volume 7 Issue 2, pp. 66-70, March-April 2020 DOI: 10.32628/IJSRSET207226

[12] G. Joga Rao, "Performance Enhancement of PMBL DC Motor Drive by Multi-Carrier Modulation Technique" International Journal of Innovative Technology and Exploring Engineering (IJITEE), volume-8 Issue-7, May- June-2019. Pp. 2179-2183 **(SCOPUS INDEXED)**

[13] G. Joga Rao, "Analysis of Grid Connected DFIG With Variation In Generator Speed And Stator Reactive Power Demand Using Reference Power Based Improved Field Oriented Control", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-8 Issue-6, March-2019 Pp.1415-1424. **(SCOPUS INDEXED)**

[14] G. Joga Rao, "Design and Development of Alcohol Detection Monitoring and Ensuring Safe Drive in Automobiles", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), ISSN: 2456-3307, Volume 6 Issue 2, pp. 163-172, March-April 2019

[15] G. Joga Rao, "PMU Based Fault Detection in 14 Bus System", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN: 2394-4099, Print ISSN: 2395-1990, Volume 6 Issue 2, pp. 217-222, March-April 2019

[16] G. Joga Rao, A. Vinod, "IOT Based Web Controlled Home Automation Using Raspberry Pi", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN: 2394-4099, Print ISSN: 2395-1990, Volume 6 Issue 2, pp. 229-234, March-April 2019.

- [17] G. Joga Rao, "Voice Controlled Home Automation", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN: 2394-4099, Print ISSN: 2395-1990, Volume 6 Issue 2, pp. 235-240, March-April 2019
- [18] G. Jogarao, "Automatic Power Supply Control to Ensure No Break Power", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN: 2394-4099, Print ISSN: 2395-1990, Volume 6 Issue 2, pp. 249-255, March-April 2019.
- [19] G. Joga Rao, "Automatic Street Light Control and Fault Detection Using Node - MCU", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN: 2394-4099, Print ISSN: 2395-1990, Volume 6 Issue 2, pp. 256-261, March-April 2019
- [20] G. Joga Rao, "Designing and Development of IOT Integrated Theft Monitoring & Live Tracking System", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN: 2394-4099, Print ISSN: 2395-1990, Volume 6 Issue 2, pp. 262-267, March-April 2019
- [21] G. Joga Rao, B. Ravi, "Wireless Health Monitoring System using IOT", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN : 2394-4099, Print ISSN: 2395-1990, Volume 6 Issue 2, pp. 268-273, March-April 2019: <https://doi.org/10.32628/IJSRSET196263>
- [22] G. Joga Rao, "Electrical Vehicle Speed Limiter using RF Technology", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN : 2394-4099, Print ISSN : 2395-1990, Volume 6 Issue 2, pp. 274-279, March-April 2019: <https://doi.org/10.32628/IJSRSET196264>
- [23] G. Joga Rao, "Smart Electricity Billing Using Node-MCU", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN : 2394-4099, Print ISSN : 2395-1990, Volume 6 Issue 2, pp. 287-292, March-April 2019: <https://doi.org/10.32628/IJSRSET196269>
- [24] G. Joga Rao, "Designing of Solar Based Inverter for Rural Area Application", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Print ISSN: 2395-1990, Online ISSN: 2394-4099, Volume 4 Issue 4, pp. 624-630, March-April 2018. DOI: 10.32628/IJSRSET1844220
- [25] G. Joga Rao, "Temperature Controlled Fan using IOT", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Print ISSN : 2395-1990, Online ISSN : 2394-4099, Volume 4 Issue 4, pp. 671-675, March-April 2018. DOI: 10.32628/IJSRSET1844255
- [26] G. Joga Rao, Design and Development of Single Board Multipurpose Power Converter in IJIREEICE Vol. 6, Issue 3, pp. 12-17 March-2018 DOI 10.17148/IJIREEICE.2018.634
- [27] G. Joga Rao, " Vehicle Tracking System Over Google Maps", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Print ISSN: 2395-1990, Online ISSN : 2394-4099, Volume 4 Issue 4, pp. 676-681, March-April 2018. DOI: 10.32628/IJSRSET1844256
- [28] G. Joga Rao, "Solar Powered Smart Irrigation System", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Print ISSN: 2395-1990, Online ISSN : 2394-4099, Volume 4 Issue 4, pp. 696-700, March-April 2018 DOI : 10.32628/IJSRSET1844253
- [29] G. Joga Rao, " Smart Solar Charging Meter", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Print ISSN: 2395-1990, Online ISSN: 2394-4099, Volume 4 Issue 4, pp. 701-704, March-April 2018. DOI: 10.32628/IJSRSET1844257
- [30] G. Joga Rao, "Power Quality Improvement in Grid Connected Wind Energy System Using STATCOM", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Print ISSN:

2395-1990, Online ISSN: 2394-4099, Volume 4 Issue 4, pp.713-717, March-April 2018. DOI: 10.32628/IJSRSET1844254

[31] G. Joga Rao, " VAR Management to Improve Maximum Loading in Standard IEEE 30 Bus System and Allocation of STATCOM", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Print ISSN: 2395-1990, Online ISSN: 2394-4099, Volume 4 Issue 4, pp.718-721, March-April 2018. DOI: 10.32628/IJSRSET1844266

[32] G. Joga Rao, "A Novel Approach for Home Automation ", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Print ISSN: 2395-1990, Online ISSN: 2394-4099, Volume 4 Issue 4, pp.799-801, March-April 2018 DOI: 10.32628/IJSRSET1844252

[33] G. Joga Rao, Smart Wi-Fi Controlled Lighting in IARJSET Vol. 5, Issue 3, pp.97-101 March 2018 DOI 10.17148/IARJSET.2018.5316

[34] Dr.G.joga Rao, Simulation of an Automatic Meter Reading System for Smart Metering by using ASK/OOK Modulation in Rural Smart Micro-grids, International Journal of Engineering & Technology (IJET) Vol 9 No 3 Jun-Jul 2017 PP1511-1523 (Scopus Indexed) DOI: 10.21817/ijet/2017/v9i3/170903501. (**SCOPUS INDEXED**)

[35] Dr. G. Joga Rao, Solar Power based Wireless Electronic Notice Board by Using GSM, International Journal of Scientific Research in Science, Engineering and Technology (ijsrset.com), Volume 3 | Issue 2 |pp. 444-451, March-April-2017. DOI: 10.32628/IJSRSET1732131

[36] Dr. G. Joga Rao, Analysis of Underground Cable Fault Distance Locator, International Journal of Scientific Research in Science, Engineering and Technology (ijsrset.com), Volume 3 | Issue 2 |pp. 452-457, March-April-2017. DOI: 10.32628/IJSRSET1732151

[37] G. Joga Rao, Diffusion Modeling and Implementation of Renewable Energy Technologies in India, International Advanced Research Journal in Science, Engineering and Technology Vol. 3, Issue 8,pp. 106-119, August 2016. DOI 10.17148/IARJSET.2016.3819

[38] G.Joga Rao, Modeling and Implementation of Hybrid Solar-Wind-Hydro Renewable Energy Systems, International Advanced Research Journal in Science, Engineering and Technology Vol. 3, Issue 8, pp. 63-69, Aug- 2016. DOI 10.17148/IARJSET.2016.3810

[39] G. Joga Rao, Analysis and Simulation of Hybrid Solar - Wind Renewable Energy Systems, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 4, Issue 8, pp. 33-38, August 2016. DOI 10.17148/IJIREEICE.2016.4808

[40] G. Joga Rao, Implementation and Diffusion Modeling of Selected Renewable Energy Technologies in India, International Journal of Scientific Research in Science, Engineering and Technology (ijsrset.com), Volume 2 | Issue 4 |pp. 735-753, July-August 2016. DOI: 10.32628/IJSRSET1624157

[41] G. Joga Rao, Modeling and Simulation of Incremental Conductance Maximum Power Point Tracking (MPPT) Algorithm for Solar PV Array Using Boost Converter, International Journal of Scientific Research in Science, Engineering and Technology, Volume 2 | Issue 4 |pp. 650-656, July-Aug 2016. DOI: 10.32628/IJSRSET1624146

[42] G. Joga Rao, Simulation of Hybrid Solar - Wind Renewable Energy Systems, ARS- Journal of Applied Research and Social Sciences, Research, Development & Training Under Public Trust Act Government of West Bengal, India Vol. 3, Issue 14, pp. 67-73, July- 2016.

- [43] Mr G Joga Rao, Solar Photovoltaic Generators with MPPT and Battery Storage in Microgrids, International Journal of Power Electronics and Drive System (IJPEDS- ISSN: 2088-8694,), Vol. 7, No. 3, pp. 701-712 Sept- 2016. DOI: <http://doi.org/10.11591/ijped.v7.i3.pp701-712>. **(SCOPUS INDEXED)**
- [44] Mr G Joga Rao, BPSK Modulation and Demodulation with Power Line Carrier Communication and GSM Communication for Smart Metering, International Journal of Power Electronics and Drive System (IJPEDS ISSN: 2088-8694,), Vol. 7, No. 3, pp. 713-722 Sept- 2016. DOI: <http://doi.org/10.11591/ijped.v7.i3.pp713-722>. **(SCOPUS INDEXED)**
- [45] Mr G Joga Rao, Defining Control Strategies for Micro Grids Islanded Operation with Maximum power point tracking using a fuzzy logic control scheme, International Journal of Power Electronics and Drive System (IJPEDS ISSN: 2088-8694,), Vol. 7, No. 3, pp. 723-733 Sept- 2016. DOI: <http://doi.org/10.11591/ijped.v7.i3.pp723-733>. **(SCOPUS INDEXED)**
- [46] Mr. G. Joga Rao "Coordinated V-f (P-Q) Control Strategy of Solar Photovoltaic Generators with MPPT and Battery Storage" International Advanced Research Journal in Science, Engineering and Technology Vol. 3, Issue 1, pp. 121-128, Jan- 2016 DOI 10.17148/IARJSET.2016.3125
- [47] Mr. G. Joga Rao, Modeling of Hybrid Solar - Wind Renewable Energy Systems with Battery Storage, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 3, Issue 12, pp. 204-210, Dec-2015. DOI 10.17148/IJIREEICE.2015.31242
- [48] G. Joga Rao, Modeling and Simulation of Hybrid Solar Photovoltaic-Wind System Based on Artificial Intelligence, International Journal of Scientific Research in Science, Engineering and Technology (ijsrset.com), Vol. 1, Issue 5, pp. 452-466, Sept-Oct- 2015. DOI: 10.32628/IJSRSET151599
- [49] Mr. G.Joga Rao , A Review of Energy Scenario and Diffusion Modeling of Selected Renewable Energy Technologies in India, International Advanced Research Journal in Science, Engineering and Technology Vol. 2, Issue 8, pp. 111-125, August 2015. DOI 10.17148/IARJSET.2015.2823
- [50] G. Joga Rao, Control Strategy of Solar Photovoltaic Generators with MPPT and Battery Storage in Micro Grid, International Journal of Scientific Research in Science, Engineering and Technology (ijsrset.com), Vol. 1, Issue 2, pp. 546-554, March-April - 2015. DOI: 10.32628/IJSRSET1511722
- [51] Mr. G. Joga Rao, Comparative Analysis of Perturb-and-Observe and Incremental Conductance MPPT Techniques for Solar PV Array, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 2, Issue 12, pp. 2302-2309, December 2014. DOI 10.17148/IJIREEICE.2014.21222
- [52] Mr. G. Joga Rao, Power Scenario and Diffusion Modeling of Renewable Solar-Wind Energy Technologies in India, JESR/December 2014/ Vol-4/Issue-12/1290-1305G. Joga Rao et al., /International Journal of Engineering & Science Research.
- [53] G.Joga Rao, A Novel Fault Tolerance Analysis Of A Single Phase Grid Connected Transformer less inverter For Pv System, International Journal Of Latest Advances In Electronic And Electric Engineering (Ijlaeee), Issn: 2319 – 8885, Volume-3, Issue-2, pp. 83-89, 2014
- [54] G.Joga Rao, An Advanced Bldc Drive System For Industrial Application With Fewer Switching Components, International Journal Of Latest Advances In Electronic And Electric Engineering (Ijlaeee), ISSN: 2319 – 8885, Volume-3, Issue-2, pp. 110-116, 2014
- [55] B. Suresh Kumar, Ganta Joga Rao, Simulation of Single Phase Multilevel Inverter Topology For Distributed Energy Resources Using Multi Inputs International Journal Of Advanced Research In Electrical, Electronics And Instrumentation Engineering Vol. 2, Issue 12, pp. 6421-6430, December 2013

- [56] M. Sivanageswararao, G Joga Rao, Realization of Medium-Voltage Cascade Multilevel Based STATCOM Under Different Load Conditions Ijesr/November 2013/ Vol-3/Issue-11/6058-6068
- [57] Ganta.Joga Rao, J.Sumathi, Analysis Of Thd And Output Voltage Performance For Cascaded Multilevel Inverter Using Carrier Pulse Width Modulation Techniques Ijesr/June 2013/ Vol-3/Issue-6/4170-4179
- [58] G Joga Rao, A Novel Hybrid Cascaded H-Bridge Multilevel Inverter for PV Application, *International Journal of Advances In Science And Technology*, Vol. 5, No.2, pp.85-96, Aug-2012
- [59] G.Joga Rao, A Novel Multilevel Grid Connected Inverter for Photovoltaic System International Journal Of Electrical, Electronics And Telecommunication Engineering, Vol. 43, Special Issue: 3, pp.1-5, RSJ 2012 .
- [60] G Joga Rao, A Dstatcom for Power Quality Improvement Of Micro Grids, *International Journal Of Advances In Science And Technology*, Vol. 5, No.3, pp. 64-71, sept-2012
- [61] Ganta Joga Rao "A Three Phase 11-Level Multilevel Converter for Grid Connected PV Application" Ijesr/Nov 2012/ Volume-2/Issue-11/Article No-6/1582-1592
- [62] G..Joga Rao "Power Quality Improvement Of Three Phase 4-Leg Shunt Active Power Filter Using Instantaneous Real-Power Theory" Ijesr/Nov 2012/ Volume-2/Issue-11/Article No-26/1776-1787
- [63] G Joga Rao "Three Phase Z-Source Dynamic Voltage Restorer Using Voltage Sag/Swell Compensation" Ijesr/Sept 2012/ Volume-2/Issue-9/Article No-14/1047-1055
- [64] Ganta Joga Rao Closed Loop Speed Control and AC Side Power Factor Correction by Using Forward Converter with Multiple Dc Motors Ijesr/Sept 2012/ Volume-2/Issue-9/Article No-10/1003-1013
- [60] G Joga Rao A Novel Three Phase Multi-String Multilevel Inverter Applied to Induction Machine Drive Ijesr/Sept 2012/ Volume-2/Issue-9/Article No-39/1295-1303
- [65] G.Joga Rao A Novel Cascaded Multilevel Inverter With Hybrid Bridge For Induction Motor Application Ijesr/Sept 2012/ Volume-2/Issue-9/Article No-43/1342-1351
- [66] G Joga Rao A Phase Shifted Carrier and Level Shifted Carrier Cascaded Hbridge Multilevel Inverter-Based APF In IJESR (International Journal Of Engineering & Science Research)/Sept 2012/ Volume-2/Issue-9/Article No-35/1238-1250
- [67] G Joga Rao "A Cascaded H-Bridge and Novel Multilevel Inverter Topology for Induction Motor Drive" Ijesr/Sept 2012/ Volume-2/Issue-9/Article No-42/1328-1341
- [68] G.Joga Rao "A novel bidirectional DC-DC converter with closed loop PI Controller" International Journal of Advances in Science and Technology, Vol-5, No.-2, 2012

Conferences:

- [1] G. Joga Rao "Type E Fault Performance Improvement of DFIG Using Lookup Table Based Control Scheme" in SPINGER Conference ICMEET-2019 at Visakhapatnam. Date of Conference: 29-30 June 2019, Date Added to SPINGER: 13 February 2020. DOI: <https://doi.org/10.1007/978-981-15-3828-5> P.N: 191-199. **(SPINGER)**
- [2] G.Joga Rao "An Efficient Flash Memory Device" in IEEE Conference Intelligent Systems and Green Technologies ICISGT-2019 at Visakhapatnam. Date of Conference: 29-30 June 2019, Date Added to IEEE Xplore: 13 February 2020. INSPEC Accession Number: 19377699, DOI: 10.1109/ICISGT44072.2019.00026 P.N: 49-52. <https://ieeexplore.ieee.org/document/8998093> **(IEEE)**

[3] Attended an international conference on “Smart Technologies for waste management and pollution control” at S.R University, Alwar on Dec-2017.

[4] Presented a paper on “Hybrid Solar-Wind Renewable Energy Systems with Battery Storage Based on Artificial Intelligence” in International Conference on “Latest Research Trends in Engineering, Technology, Management, Arts, Sciences, Education, Pharmacy, Law & Medical Sciences” June-2016.

[5] Presented a paper on “Hybrid Renewable Energy Systems” in International Conference on “Current Research in Emerging Trends of Engineering, Technology, Management, Arts, Sciences, Education, Pharmacy & Medical” pp. 161-165, Jan-2016. ISBN: 13:978-1522941347.

[6] Presented a paper titled “Energy saving tips at home” in National seminar on Environmental Challenges of Science, Engineering and Technology ECOSET-2014 at Chirala Engineering College, Chirala, June-2014.

Workshop/Seminars:

[1] Attended a webinar on “National Educational Policy 2020- Demystified” organized by Raghu Institute of Technology, Visakhapatnam in association with All Indian Council for Technical Education (AICTE) during 29th March, 2021.

[2] Attended one-week national workshop on “Machine Intelligence in Smart Grid & Communication” sponsored by Council of Science and Industrial Research (CSIR), Ministry of Science and Technology, Govt. of India at Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam on 6th May -2019.

[3] Attended two days national workshop on “Quality Enhancement in Curriculum Design and Development for Higher Education Institutions” at Raghu Engineering College Dec-2018.

[4] Attended a workshop on “Internet of Things (IOT)” organized by EEE Dept. at Raghu Institute of Technology on 3rd March-2018.

[5] Attended a seminar on “NI Engineering Education & Research” at Visakhapatnam Sept-2017 conducted by National Instruments.

[6] Attended a workshop on “Internet of Things (IOT)” organized by EEE Dept. at Raghu Institute of Technology on 5th & 6th June-2017.

[7] Delivered a seminar on “Renewable Energy Sources & Energy Saving Tips” in a workshop on “Making Students Solar Smart” at Raghu Institute of Technology on Dec-2016

[8] Delivered a seminar on “Renewable Energy Technologies” at VNRCE , Guntur on Dec-2016

[9] Attended a workshop on “Making Students Solar Smart” at Raghu Institute of Technology on Dec-2016

[10] Attended a National Workshop on “Challenges in Deregulated operation of power” by Dr. G Kesava Rao, Professor Vignan University at Chirala Engineering College on Jan-2010.

[11] Attended a National Workshop on “HVDC & FACTS” at St. Ann’s College of Engineering & Technology, Chirala, A.P. on Aug-2009.

Personal Achievements:

- ❖ Participated in CRICKET under GAMES & SPORTS event and Stood as a RUNNERS @ National Level Technical, Cultural & Sports Fest at Chirala Engineering College, Chirala in 2014
- ❖ Best Teacher Award in Chirala Engineering College for the academic year 2012-2013