

Curriculum Vitae

Dr.R. Durga Rao, B.Tech, M.Tech, Ph.D, LMISTE, LMSSI.

Professor & Additional Controller of Examinations DUEX.

JNTUH UCESTH

Kukatpally Hyderabad 500085

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Educational Qualifications

Ph.D	Esttimation and Mitigation of very Fast Transient Over Voltage (VFTO) Magnitudes by Switching the Lumped Elements in UHV Gas Insulated Switchgear Substations".	JNTUH
M.Tech	(Electrical Power Engineering)	JNTUH
B.Tech	(EEE)	JNTUH

Academic Experience: - Total Academic Teaching Experience is 25 Years

Academic positions

Sl. No	Post Held	Name of the Organization	Date
1	Assistant Professor with Academic Level-10 (Corresponding to Asst. Professor with AGP Rs.6000/-in the Pay Band of Rs.15600-39100 under UGC RSP 2006)	JNTUH UCEJ	05.01.2011
2	Assistant Professor with Academic Level-11(Corresponding to Asst. Professor with AGP Rs.7000/-under UGC RSP2006)	JNTUH UCEJ	16.06.2012
3	Assistant Professor with Academic Level-12 (Corresponding to Asst. Professor with AGP Rs.8000/-under UGC RSP 2006)	JNTUH UCEJ	25.06.2017
4	Associate Professor with Academic Level 13	JNTUH UCEM	25.06.2020
5	Professor with Academic Level 14	JNTUHUCESTH	01.07.2023

Administrative Experience

Sl. No	Designation	Duration
1	Additional Controller of Examinations DUEX JNTUH	05-01-2025 to till date
2	Head of the Department EEE JNTUHU CEM	04-01-2019 to 20-08-2024
3	NSS Programme Officer, JNTUHUCEM	07-11-2019 to 20-08-2024
4	Electrical Maintenance Officer JNTUH UCEM	01-08-2023 to 20-08-2024 04-01-2019 to 20-04-2020
5	Head, Dept. of EEE, JNTUH UCEJ	03-11-2014 to 27-12-2016
6	Electrical Maintenance Officer, JNTUH UCEJ	01-03-2012 to 05-12-2014

7	Officer In charge Library, JNTUH UCEJ	15-07-2017 to 04-01-2019
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Subjects Taught:-

1. Electrical Circuits
2. Basic Electrical Engineering
3. Network Analysis.
4. Electrical Machines 1&2
5. Power Systems 1&2
6. Power Systems Operation & Control
7. Computer Methods in Power Systems
8. High voltage Engineering
9. Electrical Distribution Systems
10. Special Electrical Machines
11. Electrical Measurements
12. Power System Protection.

Laboratories Established:-

1. Electrical Circuits Lab
2. Electrical Machines Lab
3. Electrical Power Systems Lab
4. BEE Lab
5. Electrical Simulation Lab
6. Electrical Workshop
7. Electrical Measurement Lab

Other Responsibilities

1. Served as Observer to several entrance tests - EAMCET, ECET
2. Regional Coordinator for TGPSC Groups 1/2/3/4 Entrance Examinations

Research Areas

- High Voltage Engineering
- Gas Insulated Substation
- Electrical Machines
- Electrical Power Systems
- Artificial Intelligence Techniques
- Soft Computing and Simulation Methods

Research Scholars

1. Kasarapu Dileep Kalyan HTNO: 2401202010,
Research Area – Hybrid Distributed Generation System for Isolated Power System.
2. M. Anjaneyulu HTNO: 2401202001,
Research Area – Mitigation of Technical Issues on Integrated Gas Insulated Switch Gear (GIS) Substations.
3. S. Yasoda Krishna HTNO: 2501202018
Research Area – Multi Agent AI Based Distributed Universal Multi-Level Inverter for Intelligent Power flow in Microgrids
4. Kandakatla Vishnu HTNO: 2501202009
Research Area – Design and simulation of RSMF-AUPQC with GVCR Algorithm for power Quality enhancement in High-Density EV Charging stations

Books published:-

1. Dr. R. Durga Rao, Associate Professor & Head, Department of EEE, Publication of the Text Book first edition entitled “**Special Electrical Machines**” Infinite Research, Registered under MSME Government of INDIA. ISBN NO 978-81-964364-0-7, Year of ISBN:2023.
2. Dr.R.Durga Rao & Dr. K. Naga Sujatha “**UHV Gas Insulated Substations- Mitigation of Very Fast Transient Over Voltages (VFTOS)**” Iterative International Publisher. ISBN NO. 978-81-960478-9-4
3. Dr.R.Durga Rao, Dr.T.Charan Singh & Dr.L.Kishore “Special Electrical Machines Infinite Research, Registered under MSME Government of INDIA .ISBN NO 978-81-964364-0-7,Yearof 2023.

Book Chapters :-

1. The Future of Machine Learning with Automation Engineering, NOVA Publishers, ISBN -13: 979-8-89530-556-0, Multiple Machine Learning Models for Solar Irradiance Prediction by R. Durga Rao in Chapter 6 in year 2025.

International Journals

1. R. Durga Rao Implementation of DC-DC Boost & Luo Converters for Photovoltaic Applications Page no: **178-185 International Journal of Electrical and Electronics Research (IJEER), Volume 13, Issue 1 E-ISSN: 2347-470X.**
2. R. Durga Rao Enhanced Grid Stability with ANN-Tuned Four-Leg Dynamic Voltage Restorer in Grid-Connected Systems Page no: **1-15 Journal of Electrical Systems, Vol- Issue (2024): 1-12. ISSN NO:1112-5209.**
3. R. Durga Rao Intelligent Control of Four-Leg DVR For Voltage Stability in Grid Networks with ANN Page no: **1737-1755 IJESR, Apr-June-2024.ISSN NO: 2277-2685, Volume: 14, Issue: 02.**
4. R. Durga Rao ANFIS-BASED CONTROL STRATEGY FOR UPQC IN RENEWABLE ENERGY DISTRIBUTED ENERGY SYSTEMS, Page no: **142-163 International Journal of Multidisciplinary Engineering in Current Research - IJMEC, November-2023.ISSN NO: 2456-4265, Volume: 08, Issue: 11.**
5. R. Durga Rao MPPT solar EV charging station, Page no: **107-112. European Chemical Bulletin, June-2023.ISSN NO: 2063-5346, Volume: 12, Issue: 09.**
6. R. Durga Rao utilizing a fast re configuration algorithm to increase the efficiency of PV systems, Page No: **113-122. European Chemical Bulletin, June-2023. ISSN NO :2063-5346, Volume: 12 Issue:09**
7. R. Durga Rao Mutiple output DC-DC converter for EV Charging station, Page no: **3023-3032. Journal of Data Acquisition and Processing, March-2023.ISSN NO :1004-9037, Volume:38, Issue:03.**
8. R. Durga Rao A Dual boost nine level inverter circuit for PV applications, Page no:**3015-3022. Journal of Data Acquisition and Processing, March-2023.ISSN NO: 1004-9037, Volume: 38, Issue: 03.**
9. . R. Durga Rao Factors affecting the VFTOS and suppressing techniques using lumped elements in UHV GIS Substations, Page no:**508-529.Journal of Harbin Engineering University, May-2023.ISSN NO :1006-7043, Volume: 44, issue: 05.**
10. . R. Durga Rao Suppression techniques of VFTOS generated by switching operation in UHV 1200 KV GIS substation, Page no:**492-507.Journal of Harbin Engineering University, May-2023.ISSN NO :1006-7043, Volume:44, issue:05.**
11. R. Durga Rao Selection of optimalmitigation techniques to suppress the VFTOS in 765 KV UHV GIS substations,Page no:**404-418. Journal of Harbin Engineering University, May-2023.ISSN NO: 1006-7043, Volume: 44, issue: 05.**

12. R. Durga Rao Simulation of optimal mitigation technique to suppress the VFTORS in 1000KV EHV GIS substations, Page no: 472-491. **Journal of Harbin Engineering University, May-2023.ISSN NO: 1006-7043, Volume: 44, issue: 05.**
13. R. Durga Rao **EMF based sensor less speed control of BLDC motor using a two stage AC-DC converter**,Page no: **International journal of Engineering Research and Science & Technology (IJERST)**,June-2023.ISSN NO :2319-5991,Volume:11 Issue:02.
14. .R. Durga Rao & Prof. M. Surya Kalavathi **“Resistance based mitigation of very fast transient over voltages in gas insulated substations”** Solid state technology ISSN:0038-111X, volume:64, issue:2, publication year 2021 Pg.1181-1202
15. R. Durga Rao & Prof. M. Surya Kalavathi **“Suppression of very fast transient over voltages in gas insulated substations using RC filters”** Analysis of R.S.C.B, ISSN:1583-6258, Vol.25, Issue 3,2021, Pg:1828-1849.
16. R. Durga Rao &Prof. M. Surya Kalavathi **“Ferrite rings- b a s e d suppression technique for very fast transient over voltages in gas insulated substations”**High technology letters, ISSN: 1006-6748,Vol.27, Issue2, 2021, Pg.: 221-242.
17. .R. Durga Rao & Prof. M. Surya Kalavathi **“Nanocrystalline based mitigation technique for very fast transient over voltages in gas insulated substations”** Turkish journal of computer and Mathematics education, ISSN: 1309-4653, Vol.12,No:2, (2021), Pg.:1025-1039.
18. .R. Durga Rao, asst. Professor & head, department of eee. jntuh college of engineering manthani, durgarao@jnuh.ac.in**Intelligent solar inverter & statcom control for pv farm connectivity with pso algorithm**, page no’s 153-164, a journal of composition theory, volume xiii issue ii february 2020. Issn: 0731-6755.
19. . ¹KANTE NAGENDRA BABU, JNTUH College of Engineering, Jagtial, ²R. DURGA RAO, Assistant Professor & HOD , JNTUH College of Engineering, Manthani, ³K.SRINIVAS, Assistant Professor & HOD, JNTUH College of Engineering, Jagtial, **Intelligent Solar Inverter & Statcom Control For Pv Farm Connectivity With Pso Algorithm**, ISSN : 0731-6755, Published: A Journal Of Composition Theory, Volume XIII Issue II FEBRUARY 2020.
20. R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI,durgarao@jnuh.ac.in. **Integration of AC&DC Microgrids with the Extensive Power Management Scheme**, ISSN NO: 0886-9367, published: The International journal of analytical and experimental modal analysis, Volume XII, Issue III, and March/2020.
21. R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI,durgarao@jnuh.ac.in. **Implementation Of Fuzzy Based Power Control Of Bdfg With Super-Twisting Sliding Mode Control**, page no’s 454-461 ISSN: 0731-6755, Published: A Journal Of Composition Theory, Volume XIII Issue III MARCH 2020.
22. R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI,durgarao@jnuh.ac.in. **Fic Based Bidirectional Dc/Dc Converter With Dual-Battery Energy Storage For Hybrid Electric Vehicle System**, ISSN NO: 0377-9254, Published: Journal of Engineering Sciences, Vol 11, Issue 3, March/2020.
23. R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI, durgarao@jnuh.ac.in & Md. Abdul Zameer currently pursuing master’s degree program in Electrical Power Systems, JNTUH College of Engineering Jagtial, Email: abdlzameer@gmail.com. **Estimation Of Vfto And Suppression Methods In 420kv Gas Insulated Substation**, ISSN 2277-8616, Published: International Journal Of Scientific & Technology Research Volume 8, Issue 09, September 2019.
24. R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI,durgarao@jnuh.ac.in. **A Fuzzy Controlled Res Based**

Microgrid Forboth On And Off Grid Application. ISSN NO: 0886-9367. Published: The International journal of analytical and experimental modal analysis. Volume XI, Issue XII, December/2019. Page No: 2150.

25. .R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI, durgarao@jnuh.ac.in **Performance Analysis Of Digital Over Current Relays Under Different Fault Conditions In Radial And Parallel Feeders - ISSN / ISBN No. 2454-5880**, Published: International Journal of Science and Technology, March-2017.
26. R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI, durgarao@jnuh.ac.in **Fuzzy Control Voltage Sag And Swell Compensation By Using DVR With BESS**, Page no's -4403-4408 ISSN: 2319-8885 Published: International Journal of Scientific Engineering and Technology Research, June-2017.
27. .R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI, durgarao@jnuh.ac.in **New Topology Of HVDC For Its Enhancement Of AC/DC Interconnected Transmission Systems** page no's 1258-1262, ISSN: 2348-2370, published: International Journal of Advanced Technology and Innovative Research, June 2017.
28. .R. Durga Rao¹ & K. Venkanna² · ¹Asst. Professor of EEE JNTUHCEJ-JAGITAL, ²M.TECH, **Study Of Very Fast Transient Over-Voltages And Mitigation Techniques Of 1200kv Gas Insulated Substation**, ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 7, Special Issue 1, Published: International Journal of Emerging Technology and Advanced Engineering, December 2017.
29. R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI, durgarao@jnuh.ac.in **Analysis Of VFTO Across Bushing In 765KV Gas Insulated Substation Using EMTP Software - ISSN / ISBN No. 978-1-4799-4103-2/14**, Published: IEEE Feb-2014.
30. R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI, durgarao@jnuh.ac.in **Modelling Of Power Quality Improvement For Grid Connected Multi Converter Fed Facts (MC-UPQC) Wind Turbine Energy System** page no's Global Journal of Modern Engineering Research, Volume-15, Issue-2. ISSN: 1429-4939,
31. .R. Durga Rao, Asst. Professor & Head, Department of EEE.JNTUH COLLEGE OF ENGINEERING MANTHANI, durgarao@jnuh.ac.in **Integration of AC&DC Micro grids With the Extensive Power Management Scheme**, page no's 1215-1223, The International journal of analytical and experimental modal analysis, ISSN-0886-9367

Research Guidance

M.Tech / ME Projects Guided:

Awarded **13 M. Tech** projects and guided more than **50 B. Tech** projects

Membership in Professional Bodies

- Life member of ISTE; LM 85703
- Life member of Systems Society of India; LM no:33213

Workshops, Conferences, Seminars, Symposia, FDP/Refresher courses attended

1. Three Day Online Workshop on **“Procedures & preparation of SSR for NAAC”** held from 21st April 2022 to 23rd April 2022 Organized by IQAC-JNTUH, Kukatpally, Hyderabad, Telangana State as a part of Golden Jubilee Celebrations of JNTUH.

2. AICTE sponsored Online Workshop on **“Inculcating Universal human values in Technical Education”** from **18th April to 22nd April 2020** Organized by AICTE Nelson Mandela marg, Vasant kunj, New Delhi.
3. Spoken Tutorial Project, IIT Bombay Sponsored FDP on **“Scilab”** from **01st May to 07th May 2020** Organized by Rajarshi Shahu Mahavidyalaya (Autonomous), Latur by Renuka Londhe.
4. **MHRD** sponsored **two weeks** FDP on **“Managing online classes and Co-creating Moocs: 2.0”** from **18th May to 03rd June 2020**.
5. UGC sponsored short term course on **“Soft Computing Techniques – Renewable and electrical systems”** from **01-06-2020 to 06-06-2020**. Organized by UGC-HRDC-JNTUH
6. **MHRD** sponsored FDP on **“Open-source Tools for Research”** from **08th June to 14th June 2020**.
7. Participated in Online FDP on **“AI Techniques to Electrical Engineering”** held from 06-07-2020 to 10-07-2020 organized by UGC- HRDC-JNTUH, Kukatpally, Hyderabad, T.S.
8. Two Day Online Workshop on **“Online Tools & Software for Remote Teaching-Learning”** held during 24th & 25th of April, 2020 Organized by UGC-HRDC, JNTUH, Hyderabad, TS
9. UGC sponsored Refresher Course on **“Energy Conservation and Management - Issues and Methodologies** from **18-11-2019 to 30-11-2019** conducted by UGC -Human Resource Development Centre, Jawaharlal Nehru Technological University Hyderabad held at UGC-HRDC, JNTUH, Kukatpally, Hyderabad, Telangana State, India.
10. Participated in the Two-Day Workshop on **“Real Time Simulations of Electrical Systems”** during 17th to 18th August 2018, Organized by Department of EEE, JNTUH.
11. Participated in UGC Sponsored Summer school on **“Strategies for Research Oriented Teaching”**, UGC HRDC JNTUH, HYDERABAD, 05-06-2017 to 24-06-2017 (03 Weeks), UGC Sponsored.
12. Three Days Workshop on **“Faculty- Mentors on Induction Programme for New Students”** the event was Organized by Government engineering College Raipur in Association with National Project Implementation Unit (NPIU), Delhi during September 4th to 6th 2017 under TEQIP-III
13. **One Day National Level Workshop on Outcome based Education & Accreditation**, Conducted by Department of CSE, JNTUH CEJ on 19th October 2016.
14. **Three Day Workshop on Power System – Theory and Practice at a glance**, JNTUH CEJ, 02-11-2016 to 04-11-2016 (03 Days), JNTUH College of Engineering Jagtial, Telangana State, India Sponsored.
15. **Two Days Workshop Simulation and Analysis of Power System Transients using EMTP-RV Software”** by Powersys 22nd 23rd December 2016. Chennai, India.
16. Participated in **One Week** National Level Workshop on **Big Data Analytics**, JNTUH College of Engineering, Nachupally (Kondagattu), Karimnagar, Telangana State- 505501, Organized by Department of CSE 14-12-2015 to 20-12-2015(01 Week), UGC Sponsored.
17. Participated in a pre- Conference Workshop on **Advanced Computing and Pattern Recognition-2014 (ACPR-2014)** held on 7th Jan 2014 Organized by JNTUHCEJ Nachupally(Kondagattu), Karimnagar(Dist).
18. Mr.R.Durga Rao, Participated in National Youth Policy 2014, as an **NSS Volunteer** at JNTUH, from 21-02-2014 to 24-02-2014, Ministry Of Youth Affairs & Sports & Rajiv Gandhi Khel Abhiyan Rally.

19. **Mr.R.Durga Rao**, Participated in **28th Orientation Course**, Organized by UGC ACADEMIC STAFF COLLEGE, JNTUH, 21-05-2012 to 16-06-2012, and obtained Grade “A”.
20. **Research Methodology**, JNTUH, 16-01-2012 to 21-01-2012 (01 Week), UGC Sponsored.
21. **High Voltage Testing Measurements & Gas Insulated Substations**, JNTUHCE, 12-12-2011 to 24-12-2011, AICTE Sponsored.
22. A Two Day National Workshop on **“Perspectives In Teaching – A Multi Dimensional Approach To Pedagogical Skills In Professional Teachers”** Conducted from 1st to 2nd April 2011 by the Department of English & Humanities, JNTU CEJ, Nachupally (Kondagattu), Karimnagar.
23. Three Day National Level Workshop on **“Simulation of Electrical Systems using MATLAB”** Organized by Department of EEE Form 1st to 3rd December, 2010
24. **Simulation tools for Electrical Engineering Applications**, UGC ACADEMIC STAFF COLLEGE JNTUH, Hyderabad, 06-12-2004 to 25-12-2004 (03 Weeks), UGC Sponsored.
25. Completed **Scilab** test organized by Rajarshi Shahu Mahavidyalaya (Autonomous), Latur by Renuka Londhe with course material provided by the Spoken Tutorial Project, IIT Bombay.

Workshops, Conferences, Seminars, Symposia, FDP/Refresher courses Conducted/Organized

1. Course Coordinator Two- Week Online Refresher Course on **“AI Techniques – Electrical Engineering”** scheduled from 22/11/2021 to 04/12/2021 organized by UGC –HRDC, JNTUH, Kukatpally, Hyderabad, through online.
2. Mr.R.Durga Rao, Asst.Prof & HOD of EEE, JNTUH, Manthani, Resource person for DST-ICPS sponsored two week faculty development program on **Artificial Intelligence (AI), Machine Learning (ML) and Deep Learning (DL)** Organized by Department of EEE, Session was **Applications of Artificial Intelligence (AI) techniques in Electrical Machines and Power Systems** on 01.02.2020.
3. Course Coordinator Two Week FDP on **“Emerging Trends In Renewable Energy Sources And Energy Management”** Organized by UGC-Academic Staff College, JNTUH, 09-06-2014 to 28-06-2014, UGC Sponsored.

International Conferences

1. R. Durga Rao, Asst. Professor & Head, Department of EEE, JNTUH COLLEGE OF ENGINEERING MANTHANI, durgarao@jnuh.ac.in **“Improvement of Dynamic Performance of DFIG Based Wind Turbine”** at International Conference on Recent Innovations in Electrical and Electronics Engineering, ICRIEEE-17, organized at JNTUH, Hyderabad on 29th -30th December 2017.
2. R. Durga Rao, JNTUHCE, Jagityal, Presented a paper entitled **“Study of Very Fast Transient over-Voltages and Mitigation Techniques of 1200kv Gas Insulated Substation”** International Conference on Recent Innovations in Electrical and Electronics Engineering, Organised by Department of EEE, JNTUH 29th & 30th December 2017.
3. R. Durga Rao and Dr. Amarnath, **“Analysis of VFTO across bushing in 765kV GIS”**, International Conference on smart electric grid-2014 (ICSEG-2014) ISBN:978-1-4799-4103-2/14/2014 IEEE.

National Conferences

1. R. Durga Rao, Asst. Professor & Head, Department of EEE, JNTUH COLLEGE OF ENGINEERING MANTHANI, durgarao@jnuh.ac.in **“A Practical case study of PVSOL system”** at National Energy Conservation Week - 2018, organized by Energy Conservation Mission, The Institute of Engineers in association of Telangana State Renewable Energy

Development Corporation Ltd., Hyderabad on 14th December 2018.

2. R. Durga Rao, Presented a paper entitled “**Forecasting of Power Using Neuro-fuzzy Ideology**” in the National Conference on Advanced Computing and Pattern Recognition-2014 (ACPR-2014) held on 8th and 9th Jan 2014.
3. R.Durga Rao, Asst. Professor EEE, JNTUHCEJ, Presented a paper entitled “**Comparison between suppressing approaches of VFTO’s in GIS using EMTP Software**” in 38th National Systems Conference (NSC-2014) conducted by Department of Electrical & Electronics Engineering in Collaboration with the Departments of Electronics & Communication Engineering and Computer Science and Engineering, JNTUH College of Engineering Hyderabad during. - ISSN / ISBN No. 978-935107297-3, Published: ELSEVIER 5th & 7th Nov-2014.
4. R.Durga Rao, Asst. Professor EEE, JNTUHCEJ, Presented a paper entitled “**Comparison between suppressing approaches of VFTO’s in GIS using EMTP Software**” & Awarded Technical (Session)-IV: Power System –I, in 38th National Systems Conference (NSC-2014) conducted by Department of Electrical & Electronics Engineering in Collaboration with the Departments of Electronics & Communication Engineering and Computer Science and Engineering, JNTUH College of Engineering Hyderabad during. - ISSN / ISBN No. 978-935107297-3, Published: ELSEVIER 5th & 7th Nov-2014.
5. R.Durga Rao, Asst. Professor, JNTUH College of Engineering, Karimnagar-505501(AP) Participated in the National Conference on “**Gas Insulated Substations**” Organized by Central Electricity Authority & Central Board of Irrigation and Power, New Delhi held on 28th February-1st March, 2013.
6. R. Durga Rao, Asst. Professor of JNTUHCEJ, Nachupally “**Suppression of Very Fast Transient Over-Voltages In Gas Insulated Substations**” “Authored by K. SRAVAN KUMAR, R. DURGA RAO, Dr.J. AMARNATH in the National Conference on Advances and Applications in Power Systems, Power Electronics and Solar Energy (AAPPS-13) Organized by the Department of Electrical & Electronics Engineering on 24th & 25th October 2013.
7. R. Durga Rao, Asst. Professor of JNTUHCEJ, Nachupally **Wavelet Analysis of Very Fast Transient Over Voltages And Currents In A 245kv Gis**, Authored by R. DURGA RAO, Dr.J. AMARNATH, in the National Conference on Advances and Applications in Power Systems, Power Electronics and Solar Energy (AAPPS-13) Organized by the Department of Electrical & Electronics Engineering on 24th & 25th October 2013.
8. R. Durga Rao, Asst. Professor Of JNTUHCEJ, Nachupally, **Analysis of Robust Damping Controller For An Hv-Dc System Using Loop Shaping Procedure**, Authored By R.Durga Rao, Dr.J.AMARNATH, A.VAISHANAVI, In The National Conference On Advances And Applications In Power Systems, Power Electronics And Solar Energy (AAPPS-13) Organized By The Department Of Electrical & Electronics Engineering On 24th & 25th October 2013.
9. R. Durga Rao, Asst. Professor of JNTUHCE, Jagityal Presented paper entitled “**Analysis & Comparison of SVPWM & SPWM Controlled 2-level inverter fed 3-Im**” in the conference, jointly organized by the department of Electronics and Communication Engineering & Electrical and Electronics Engineering, on 29th 30th, April -2011.
10. R. Durga Rao, Asst. Professor of JNTUHCE, Nachupally (Kondagattu), Karimnagar has Participated/ Presented a Paper (Oral/Poster) at the “**National Conference on Physics of Nanotechnology**” Conducted from 9th to 11th february, 2011 by the Department of Physics, College of Engineering, Nachupally (Kondagattu), Karimnagar (Dist)., A.P.

Patents

1. Dr. RAMISETTI DURGA RAO, Associate Professor & Head Department Of EEE JNTUH University College of Engineering, Centenary Colony, Pannur Village, Kamanpur Mandal, Peddapalli Dist - 505212, Telangana, India. Patent On **Solar and Wind Hybrid energy generation apparatus**. Patent Design No: 379697-00 Dated: 19/05/2023 Page No: 239 Government of INDIA

2. RAMISETTI DURGA RAO, Centenary Colony, Pannur Village, Kamanpur Mandal, Peddapalli Dist Telanagana, India. Patent On **Automatic Kitchen Exhaust Fan With Pollution Monitoring System** Application No.202231027484 A Date Of Filing Of Application: 12/05/2022. Publication Date: 10/06/2022, Page No: 402.

3. Dr. DURGA RAO RAMISETTI Address of Applicant: Head Department of EEE JNTUH University College of Engineering, Hyderabad. **Solar Panel Embedded Tube Light Frame for Battery Charging and Led Lamp Lighting Application** No.202231033862 A Dated of Filing of Application: 14/06/2022, Publication Date: 08/07/2022, Page No: 494

4.RAMISETTI DURGA RAO, Centenary Colony, Pannur Village, Kamanpur Mandal, Peddapalli Dist - 505212, Telanagana, India. Patent On **a Sewer Monitoring and Controlling System and A Method To Operate The Same**. Ref.No./Application No. 201941042837, App. Number:TEMP/E-1/45440/2019- CHE, C.B.R.No. 34503, Docket No 88988, Date/Time 2019/10/22

Dr.R. Durga Rao.