

Name of Faculty P. HEMESHWAR CHARY  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 08-03-2014  
 E-mail hemeshwar\_eee@cbit.ac.in



Education Qualifications	Name of the Degree	Class
PG	M.Tech. (Electrical Power Systems)	First /Distinction
UG	B. Tech(Electrical and Electronics Engineering)	First

**Work Experience**

Teaching	15.5 Years
Research	--
Industry	--
Others	--

Area of Specialization Renewable Energy Systems, Micro Grid, IoT,

Professional Memberships Life Member, ISTE. Membership Number: LM 95053

Responsibilities held at Institution Level Public Relation Committee: Dept.(EEE) Coordinator

Responsibilities held at Department Level

1. In-Charge, Timetables
2. Member, Course Expert Group
3. Member NBA Criteria 7.0, Criteria 2.0
4. Co-Coordinator MODROBS: Electrical Machines Lab
5. In-Charge: Basic Electrical Engineering Laboratory Set-Up

Research Guidance --

Awards Received --

Courses Handled at Undergraduate / Post Graduate Level. Power Systems-I, Electrical Machines-I& II, Power Electronics, Renewable Energy Systems, Power Semiconductor Drives, Utilization of Electrical Energy, Internet of Things for Electrical Engineering, AI Techniques in Electrical Engineering, Electrical Drives.

No. of Papers Published **06**

Projects Carried out Co-Coordinator: MODROBS- Special Electrical Machines

Patents Published: Islanding Detection for Inverter Based Distributed Generation with Low Frequency Current Harmonic Injection Through Q Controller Androcof Analysis (File no: 202141027908 A, Date: 22/06/2021).

Technology Transfer --

Invited Speaker --

No. of Books/Chapter Published with details --

Details of Short-Term Training Programs/ Faculty Development Programs/ Seminars/ Workshops/ Other Trainings (**Attended and/ or Organized**).

1. Organized: A Two Day Online Work Shop On Emerging Novel Technologies Related To Advanced Machines "ENTRAM-2022" 29th - 30th March-2022.
2. Attended A One-week AICTE Recognized Development Programme on "Smart Grid and Integration of Distributed Generation" from 28/08/2023 to 01/09/2023 organized by National Institute of Technical teachers Training and Research, Chandigarh at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad.
3. Attended A One-week AICTE Recognized Development Programme on "ANSYS-EM for Electrical Engineering Application" from 17/07/2023 to 21/07/2023 organized by National Institute of Technical teachers Training and Research, Chandigarh at Chaitanya Bharathi

- Institute of Technology, Gandipet, Hyderabad.
4. Attended A One-week AICTE Recognized Development Programme on “Energy Efficient and Decarbonisation Technologies” from 05/06/2023 to 09/06/2023 organized by National Institute of Technical teachers Training and Research, Chandigarh at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad.
  5. Attended the online webinar on “Harmonic Analysis using ETAP” held on 30th Jan’22.
  6. Attended “A National Level Webinar on Adaptive Control Schemes for Grid-Tied Inverters to Improve Power Quality of Micro-Grid Systems” conducted by the Department of Electrical and Electronics Engineering, in Association with IEEE Student Branch & Tesla Club at SRM TRP Engineering college, Trichy on 17.08.2022.
  7. Attended FDP on Smart Grids and Micro Grids in Indian Context organized by the Dept. of EEE, MGIT from 20 - 24 June 2022.
  8. Attended A One-week National Level Online Faculty Development Programme on “Challenges and Measures in Evolving Power Systems” from 06-06-2022 to 11-06-2022 organized by the Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad.
  9. Attended A Three Day Online Faculty Development Programme On Real-Time Hardware-In-The-Loop Simulation Of Advanced Power Electronics for Electric Transportation And Renewable Energy Applications" during 1st June -3rd June 2022 Organized by Anurag University, Department of Electrical Engineering, Hyderabad in Association with Quarbz info Systems, Kanpur, UP.
  10. Attended Workshop on “Standardisation of Sensors, Devices and Their Application” held on February 22-23, 2022, at Thapar Institute of Engineering and Technology, Patiala under the aegis of Metrology Society of India.
  11. Attended one day workshop on Design Thinking, Critical Thinking and Innovation Design” Organized by department of Basic Science and Humanities held on 21st Feb 2022 at BVRIT-IIC.
  12. Attended One Week Virtual Faculty Development Program (FDP) on “Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles” (RCOSGIEV-2021)” During 08-10-2021 to 12-10-2021, Organized by the Department of Electrical & Electronics Engineering, VEMU Institute of Technology, Kothakota, Chittoor(Dt), A.P.
  13. A One-week STTP on “Recent Advances in EV Technologies, Series-A” conducted by Dept. of EEE, Matrusri Engineering College, Saidabad, Bandlaguda, HYD., during 26-04-2021 to 01-05-2021.
  14. A Two-week faculty development programme on “Advanced Power Electronic Applications in Power Systems” conducted by Dept. of EEE, SASI(A), Tadepalligudem during 23-11-2020 to 05-12-2020.
  15. A Five-day faculty development programme on “Design and Development of control strategies on Electrical Power Applications-An Industrial Perspective” conducted by Dept. of EEE,PVPSIT(A), Vijayawada during 07-12-2020 to 12-12-2020.
  16. A Three-day faculty development programme on “IPR & Fundamentals of Patent Filing - Prosecution” conducted by Dept. of IT, BVRIT, Narsapur, Medak, during 08-06-2021 to 10-06-2021.
  17. A Webinar on “Advanced power converters for future power grids” organized by IEEE - PES Chapter, CBIT, Hyderabad on 10<sup>th</sup> March, 2021.
  18. A Webinar on “The Future is AI” organized by Dept. of IT, BVRIT, Narsapur, Medak on 05<sup>th</sup> June, 2021.
  19. A Webinar on “Styling, Formatting and Referencing Research Paper” organized by Organized by Matterhere on 17<sup>th</sup> June, 2021.
  20. A Webinar on “Fractional Order Controller-Design and Implementation-2021” organized by Organized by Sree Venkateswara College of Engineering, Northrajupalem, Nellore, Andhra Pradesh on

20<sup>th</sup> June, 2021.

21. A Short-Term Course on “Soft Computing Techniques - Renewable and Electrical Systems” HRDC, JNTU Hyderabad (Online). 1<sup>st</sup> - 6<sup>th</sup> June 2020.
  22. Successfully Completed “AI for Everyone” an online non-credit course authorized by deeplearning.ai and offered through Coursera.
  23. Successfully Completed “Exploring Renewable Energy Schemes” an online non-credit course authorized by University of California, Irvine and offered through Coursera.
  24. Successfully Completed “Introduction to the Internet of Things and Embedded Systems” an online non-credit course authorized by deeplearning.ai and offered through Coursera.
  25. A Faculty Development Program on “Outcome Based Education and NBA Accreditation Process-(UG)”, Chaitanya Bharathi Institute of Technology (A), Hyd. (Online). 28<sup>th</sup> May - 01<sup>st</sup> June 2020
  26. A Faculty Development Program on “Internet of Things (Atal FDP)”, IIIT Nagpur via Cisco Webex (Online). 7<sup>th</sup> - 11<sup>th</sup> May 2020
  27. The Exhibition-Events “The Smarter E India (India’s Innovation Hub for The New Energy World)” Bangalore International Exhibition Centre, Karnataka. 27<sup>th</sup> – 28<sup>th</sup> Nov 2019.
  28. A Continuing Professional Development Programme on “Rooftop Solar Grid Engineer (Design, Erection, Commissioning & Maintenance)”, Engineering Staff College of India, Hyderabad. 10<sup>th</sup> - 14<sup>th</sup> June 2019.
  29. UGC Sponsored Refresher Course on “Internet of Things” (3-Weeks) by UGC-HRDC, JNTUH, Kukatpally, HYD. 03<sup>rd</sup> - 22<sup>nd</sup> Dec 2018
  30. UGC Sponsored “50<sup>th</sup> Orientation Programme (4-Weeks)” by UGC-HRDC, JNTUH, Kukatpally, HYD. 04<sup>th</sup> Jun – 02<sup>nd</sup> Jul 2018.
  31. Organized as a Convener, Electret-2018, A National Level Technical Symposium, Under SUDHE-2018.
  32. Organized as a Co-Convener, Electret-2017, A National Level Technical Symposium, Under SUDHE-2017.
  33. Organized A two-day workshop on “Practical Aspects of Renewable Energy Sources” “PARES-2017”, EEE Dept., CBIT(A). 27<sup>th</sup> – 28<sup>th</sup> March 2017.
1. Published one paper “Analysis of Single-Phase H6-Clamping Transformer less Inverter topology for Constant Common mode voltage” The First international Conference on “Emerging Technologies and Applications in Electrical Engineering” held on 21<sup>st</sup> - 22<sup>nd</sup> December 2023. Organized by Department of Electrical and Electronics Engineering, National Institute of Technology, RAIPUR.
  2. **P. Hemeshwar Chary**, N. Santosh Kumar, Microgrid Control Schemes And Current Trends For Sustainable Energy Management, PENSEE International Journal, Vol. 51, No. 4, pp. 1436-1444, April-2021, ISSN 0031-4773 , Impact factor: 6 (Scopus Indexed)
  3. N. Santosh Kumar, **P. Hemeshwar Chary**, Machine Learning Based Adaptive Protection of Microgrid for Optimised Power System Management, International Journal of Advanced Science and Technology, Vol. 30, No. 1, pp. 22-30, April-2021, ISSN 22-30, Impact factor: 0.48 (Scopus Indexed)
  4. N. Santosh Kumar, **P. Hemeshwar Chary**, Cooperative Optimal Control Strategy for Microgrid under Grid-Connected Mode, Open Access International Journal of Science & Engineering, Vol. 6, No. 6, pp. 50-54, June-2021, ISSN 2456-3293, Impact factor: 5.856 doi: 10.51397/OAIJSE06.2021.0009 (UGC Approved)
  5. **P. Hemeshwar Chary**, N. Santosh Kumar, Islanded Mode Based Efficient Control and Management Strategy for a Grid Connected PV System, Journal of Interdisciplinary Cycle Research, Vol. VIII, No. VI, pp. 860-867, June-2021, ISSN 0022-1945, Impact factor: 6.2, DOI: 18.0002.JICR.2021.V13I6.008301.3171229060 (UGC Care)
  6. **P. Hemeshwar Chary**, N. Santosh Kumar, Adaptive Smart Centralized Substation Protection System through Self-Healing, Journal of Critical Reviews, Vol. 8, No. 2, pp. 1527-1534, June-2021, ISSN- 2394-5125, DOI: 10.31838/jcr.08.02.152 (Google Scholar)

Details of Journal Publications/  
Conferences (National and International)