

Name of Faculty N.SANTOSH KUMAR  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 18 - 06 - 2018  
 E-mail santoshkumar\_eee@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Pursuing	--
PG	M. Tech. (EPS)	First
UG	B. E. (EEE)	First

**Work Experience**

Teaching 13 Years  
 Research --  
 Industry --  
 Others --  
 Area of Specialization Renewable energy system, Hybrid Microgrid.  
 Professional Memberships --  
 Responsibilities held at Institution Level --  
 1. In-Charge: Time table  
 2. In-Charge: Equivalent Subjects-2019  
 3. In-Charge: MoUs  
 Responsibilities held at Department Level  
 4. Member: MODROBS\_Electrical Machines Lab  
 5. In-Charge: Setting up of Basic Electrical Engineering Laboratory  
 6. Member: NBA Criteria-4.0 & 2.0  
 7. Member: Course Expert Group  
 8. Member: NAAC Criteria-2.3

Research Guidance --  
 Awards Received --  
 Courses Handled at Under Graduate Level. Electrical Machines-II, Electrical Machines-III, Power Systems-I, Power Systems-II, Electrical Technology, Electrical Circuits and Machines.  
 No. of Papers Published National Journals -- -- International Journals -- 06  
 National Conference -- -- International Conference -- 01  
 Projects Carried out MODROBS - Special Electrical Machines  
 Patents Published Patent " ISLANDING DETECTION FOR INVERTER BASED DISTRIBUTED GENERATION WITH LOW FREQUENCY CURRENT HARMONIC INJECTION THROUGH Q CONTROLLER ANDROCOF ANALYSIS"  
 File no: 202141027908 A Dated: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.  
 1. Organized: A Two Day Online Work Shop On Emerging Novel Technologies Related To Advanced Machines "ENTRAM-2022" 29th - 30th March-2022

Other Trainings (**Attended and/or Organized**).

2. Participated in one day online webinar on “ Harmonic analysis using ETAP” Organized by HIEE EMPOWERING ENGINEERS PVT LTD held on 30thJan 2022.
3. 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.
4. Participated in A One-week National Level Online Faculty Development Programme on “Smart Grids and Micro Grids in Indian Context” from 20-06-2022 to 24-06-2022 organized by the Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad.
5. Attended 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.
6. 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 Quartz info Systems, Kanpur, UP.
7. Attended Workshop on “Standardization 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.
8. 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.
9. Participated in 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, P. Kothakota, Chittoor(Dt), A.P.
10. Participated in online webinar on “Power Electronics – A Driving force for Electric Vehicle” Conducted by Vignan Institute of Technology and Science held on 29th July 2021.
11. 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.
12. 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.
13. 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.
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 Webinar on “Fractional Order Controller-Design and Implementation-2021” organized by Organized by Sree Venkateswara College of Engineering, Northrajupalem, Nellore, Andhra Pradesh on 20th June, 2021.
16. A Webinar on “Styling, Formatting and Referencing Research Paper” organized by Organized by Matterhere on 17th June, 2021.

17. A Webinar on “ISSUES IN GRID INTEGRATION OF RENEWABLE ENERGY” organized by Vignans Institute of Science, Guntur on 06th June, 2021.
18. A Webinar on “The Future is AI” organized by Dept. of IT, BVRIT, Narsapur, Medak on 05th June, 2021.
19. A Webinar on “Advanced power converters for future power grids” organized by IEEE - PES Chapter, CBIT, Hyderabad on 10th March, 2021.
20. Completed online course on “Wind Energy” offered by Technical University of Denmark., 01st June 2020 to 01st July 2020.
21. Attended Short Term Course “Soft Computing Techniques Renewable and Electrical Systems” HRDC, JNTU, Hyderabad (Online), 1st - 6th June 2020.
22. A Faculty Development Program on “Outcome Based Education and NBA Accreditation Process-(UG)”, Chaitanya Bharathi Institute of Technology (A), Hyd. (Online). 28th May - 01st June 2020.
23. Attended FDP “Design and Development of Photovoltaic modules for PV Generation” Organized by Lendi Institute of Engineering and Technology, 25th - 30th May 2020.
24. Attended STTP “MATLAB based Teaching-Learning in Mathematics, Science & Engineering” Organized by Ramrao adik Institute of Technology, Navi Mumbai in collaboration with Design Tech Systems Pvt. Ltd, 18th – 22nd May 2020.
25. Participated in one day webinar on “ Microgrid Technology” Organized by Chennai Institute of Technology, 16th May 2020.
26. Participated in “ One week Faculty Development Programme on Scilab” Organized by Geethanjali Institute of Science and Technology 11th May to 16th May 2020
27. Participated in 3-day webinar series on “ Design of Power Switched converters for Renewable Energy Applications” Organized by KL university, 9th May to 11th May 2020.
28. Attended Online workshop “Electromagnetic and Thermal Simulation of PMSM motor” organized by ALTAIR (ANZ ASEAN India) on 7th May 2020.
29. Co-ordinator for “Energy Conservation week celebrations December-2019”, 14th-20th Dec 2019
30. A Continuing Professional Development Programme on “Rooftop Solar Grid Engineer (Design, Erection, Commissioning & Maintenance)”, Engineering Staff College of India, Hyderabad. 10th - 14th June 2019.
31. The Exhibition-Events “ The Smarter E India (India’s Innovation Hub for The New Energy World)” Bangalore International Exhibition Centre, Karnataka. 27th – 28th Nov 2019.
32. Organized a Three day Workshop “Simulation of Power Electronic Converters –SPEC-18” In Association with IEEE- PES Student Chapter 26th-28th February 2018.
33. A two-day work shop on “Practical Aspects of Renewable Energy Sources” EEE Dept., CBIT (A). 27th – 28th March, 2017.

#### International Journal

1. 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)
2. N. Santosh Kumar, P. Hemeshwar Chary, Machine Learning Based Adaptive Protection of Microgrid for Optimized 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)
3. N. Santosh Kumar, P. Hemeshwar Chary, Cooperative Optimal Control Strategy for Microgrid under Grid-Connected Mode, Open

Details of Journal Publications/  
Conferences (National and  
International)

Access International Journal of Science & Engineering, Vol. 6, No. 6, pp. 50-54, June-2021, ISSN 2456-3293, Impact factor: 5.856doi: 10.51397/OAIJSE06.2021.0009 (UGC Approved)

4. 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)
5. 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)
6. Dr. T. Murali Krishna, N. Santosh Kumar, D. Akhila, D. Balaji (2018) Comparison of Performance of Seven Level Neutral Point Clamped and Multi Source Topologies. International Journal Of Engineering Research And Development, Vol. no:14, pp 43-48, April-2018.

#### International /National Conferences

1. Presented paper " Voltage sag and swell mitigation in a transmission line using Dynamic Voltage Restorer" in the 2<sup>nd</sup> International conference on Engineering and Advancement in Technology-2021. held on 16<sup>th</sup> and 17<sup>th</sup> July 2021. Organized by LORDS institute of Engineering and Technology.

