

Name of Faculty Dr.N.VASANTHA GOWRI  
 Designation Associate Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 08 – 06 - 2009  
 E-mail Vasanthagowri\_eee@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (EEE) 2019	Awarded
PG	M. E. (Applied Electronics)	First
UG	B. E. (EEE)	First

**Work Experience**

Teaching	18.5
Research	11
Industry	-
Others	-
Area of Specialization	Applied Electronics, Electrical Machines, Energy Systems
Professional Memberships	Life Member ISTE (54886)
Responsibilities held at Institution Level	<ol style="list-style-type: none"> <li>Co-Incharge, AEC from 14.03.2022 to till date</li> <li>Convener- Energy Savers' Club From 2011 to till date.</li> <li>Member In-House Training Centre from 21-11-2017 to 2019</li> <li>Member Academic Council 16-05-2020 to till date.</li> <li>Member Academic Audit committee</li> <li>Member Institution Industry Cell</li> <li>Member Grievances redressal committee for staff</li> <li>Member IoT group CBIT</li> <li>Member IQAC</li> </ol>
Responsibilities held at Department Level	<ol style="list-style-type: none"> <li>ISO coordinator</li> <li>Department TEP coordinator</li> <li>In-Charge Department Library</li> <li>In-charge Time Tables</li> <li>In-charge DSP lab, DE lab, IoTlab</li> <li>Member, Course Expert Group</li> <li>Member Board of Studies</li> </ol>
Research Guidance	--
Awards Received	<ol style="list-style-type: none"> <li>IEEE Best paper award - 2013</li> <li>Best Research Award - 2019</li> <li>AdarshVidyaSaraswatiRashtriyaPuraskar– 2020</li> <li>Global Teaching Excellence Award 2021</li> <li>Best Researcher award -2022</li> </ol>
Courses Handled at Under Graduate / Post Graduate Level.	VLSI design, Microprocessors and Microcontrollers, Digital Electronics, Electrical Machines, Electrical Technology, DSP and Embedded Systems, Advanced Microprocessor systems, Renewable Energy Sources
No. of Papers Published	National Journals – 01                      International Journals – 21
	National Conference – 05                      International Conference – 06
Projects Carried out	AI based Transformer monitoring system

<p>Patents</p>	<p>IoT Based Automation of Industry Using Optimized Robotics Process. 202141031661A August 2021 Published Under Examination.</p> <p>A Hybrid Power Energy Management System 202241049658 September 2022 Published Under Examination.</p>
<p>Technology Transfer</p>	<p>1. Resource person for National Level Workshop on Research Methodology Tools &amp; Techniques in Engineering at SEC, Chennai during Feb 2018</p>
<p>Invited Speaker</p>	<p>2. Resource person for faculty workshop on Technical paper content writing tools and tips during June 2018</p> <p>3. Guest Speaker for Students workshop on Artificial Intelligence at SEC, Chennai during Jan 2019</p>
<p>No. of Books/Chapter Published with details</p>	<p>1. Monte-Carlo analysis of particle movement and partial discharge 2019</p> <p>2. Partial discharge in power transformer with non- directed coolant, 2019</p> <p>3. Partial discharge in directed oil flow type transformer, 2019.</p> <p>4. Guide for Simulation of Common DC- DC Converter for Solar PV System July 2020</p> <p>5. Investigation of Partial Discharge Due to Copper Spherical Particle in Power Transformer Under Various Oil Flow Models Using CFD March 2021</p> <p>6. Control and Instrumentation for Industry 4.0 2022</p>
<p>Details of Short-Term Training Programs/Faculty Development Programs/Seminars/ Workshops. Other Trainings (Attended and/or Organized).</p>	<p>1. Successfully completed a One-Week National FDP on "Latest Research Software &amp; ICT Tools for Communicating Research" organized by GMR Institute of Technology from 20-06-2021 to 26-06-2021.</p> <p>2. Successfully completed a 40 hours FDP on " Data Science for all", jointly organized by ICT academies NIT Warangal, IIT Kanpur, NIT Patna IIT Guwahati, MNIT Jaipur and NIT Roorkee from 12-04-2021 to 23-04-2021</p> <p>3. Successfully completed a one week international FDP with A+ Grade on "Recent Strategies on Micro- and Smart-Grid Technologies" organized by GMR Institute of Technology, during 15-06-2020 to 19-06-2020.</p> <p>4. Successfully completed a five-day FDP on "Academic Research in Engineering for Industry and Patents" organized by CSI Hyderabad and MVSR Engineering College from 01-06-2020 to 05-06-2020</p> <p>5. Successfully completed a National level Fiveday Online Faculty Development Programme on "Electric Power Grid Modernization Trends, Challenges And Opportunities" Organised by KITS, Guntur, Andhra Pradesh from 09/06/2020 to 13/06/2020.</p> <p>6. Successfully completed a two day FDP on "Research opportunities in electrical engineering" organized by KHIT, Guntur, Andhra Pradesh 20,21 May 2020.</p> <p>7. Successfully completed an IoT Boot Camp organized by C-DAC Hyderabad during 8-05-2020 to 01-07-2020</p> <p>8. Successfully completed a one week online training programme on Internet of Things conducted by MSME - TECHNOLOGY DEVELOPMENT CENTRE (PPDC), from 27.04.2020 to 01.05.2020.</p> <p>9. Successfully completed an online Faculty Development Program on Artificial Intelligence from 22-May-2020 to 26-May-2020 organized by the SIR C.R Reddy College Of Engineering and National Youth Council of India and BrainOVision Solutions India Pvt. Ltd.</p> <p>10. Successfully completed a one week FDP on " Outcome Based Education" organized by CBIT(A) from 28-05-2020 to 1-06-2020.</p> <p>11. Successfully completed a twelve week FDP on "Microprocessors and Interfacing" through NPTEL during Jan - April 2020</p> <p>12. Successfully completed a twelve week FDP on "NBA Accreditation and Teaching Learning in Engineering" through NPTEL During Jan - April 2020</p> <p>13. Successfully completed a twelve week FDP on "Digital Electronic Circuits" through NPTEL During Jan - April 2019</p> <p>14. Successfully completed a twelve week FDP on "Microprocessors and microcontrollers" through NPTEL During Jan - April 2019</p> <p>15. Participated in one day symposium on "significance of sanskrit" on technical research conducted by CBIT on 08-09-2018</p> <p>16. Participated in AICTE sponsored two week FDP on "Power</p>

- Electronics to Renewable Energy Systems- PERES2017” conducted by CBIT during 13-11-2017 to 25-11-2017
17. Participated in SPFU initiated TEQIP II sponsored FDP on “ Embedded Systems” conducted by ESCI, The Institution of Engineers(I) during 28-03-2016 to 01-04-2016.
  18. Participated in 92<sup>nd</sup> “Orientation course” conducted by UGC- Human Resource Development centre at University of Hyderabad from 11-06-2015 to 08-07-2015 and obtained Grade “A”
  19. Participated in training programme on “Ethics in Governance” conducted by MHRD from 25-06-2014 to 27-06-2014
  20. Successfully completed a course work on “Research Methodology” Conducted by JNTUH, Hyderabad from 16-12-2013 to 21-12-2013
  21. Participated in AICTE sponsored two week STTP- Refresher course on Applications of Power Electronics to Power Systems from 25-11-2013 to 6-12-2013
  22. Attended two day national level work shop organized by women cell, CBIT during 8th and 9th march 2013.
  23. Participated in TEQIP sponsored In-house FDP conducted by CBIT from 2-1-2012 to 6-1-2012
  24. A One Week Faculty Workshop on “Recent Advances in Electrical Engineering”, at MGIT, Hyderabad during 26-12-2011 to 31-12-2011
  25. Conducted a twoweek Skill Development Program for Technical Staff of EEE department “Laboratory Experiment Analysis for Reinforcement of Nexus [LEARN], from 18-01-2021 to 30-01-2021
  26. Conducted “National Energy Conservation Week Celebrations” from 14-12-2020 to 20-12-2020
  27. Conducted students event named “Best out of waste” as a part of SwachhtaPakhwada on 03-1-2020
  28. Conducted “National Energy Conservation Week Celebrations” from 14-12-2019 to 20-12-2019
  29. Conducted two days training and competition on IoT in collaboration with IITB “IoT challenge 2020” during 15<sup>th</sup> and 16<sup>th</sup> October 2019
  30. Coordinator for International Conference on Vedic Mathematics” conducted by CBIT in association with Institute for the Advancement of Vedic Mathematics during 29<sup>th</sup> -31<sup>st</sup> August 2019
  31. Conducted “National Energy Conservation Week Celebrations” from 14-12-2018 to 20-12-2018
  32. Conducted “National Energy Conservation Week Celebrations” from 14-12-2017 to 20-12-2017
  33. Conducted “National Energy Conservation Week Celebrations” from 14-12-2016 to 20-12-2016
  34. Convener for two days National conference on “Recent Trends in Power Systems -RTPSD2016” held at CBIT during 28<sup>th</sup> and 29<sup>th</sup> October 2016
  35. Conducted two days training and competition on Robotics in collaboration with i3 India, “Speech Robo workshop” during 12<sup>th</sup> and 13<sup>th</sup> February 2016
  36. Conducted “National Energy Conservation Week Celebrations” from 14-12-2015 to 20-12-2015
  37. Coordinator for Two days National Conference on “Role of Young Engineers in the Development of New State Telangana - NCREDNeST” during 23<sup>rd</sup> and 24<sup>th</sup> January 2015
  38. Conducted “National Energy Conservation Week Celebrations” from 14-12-2014 to 20-12-2014
  39. Conducted “National Energy Conservation Week Celebrations” from 14-12-2012 to 20-12-2012
- Convener for Five days National Level FDP on “ Inexorable March of Electrical Drives in Industrial Arena - INDIA 2012” during 25<sup>th</sup> to 29<sup>th</sup> June 2012

Details of Journal Publications/  
Conferences (National and  
International)  
**National Journal**

1. N.VasanthaGowri, P.Srikanth, V.Shashank, G.Sankeerth, M.RamalingaRaju, “Analysis Of Particle Movement And Partial Discharge In The Winding Of Power Transformer Using CFD”, The Journal of CPRI, Vol. 12, No. 1, March 2016.

**International Journal**

2. N.VasanthaGowri, "Investigation of Flow Pattern of Copper And Aluminum Particles in EHV Transformer" International Journal of Electrical Engineering and Technology , Vol 7 Issue 4 July- August 2016.



3. N.VasanthaGowri, "Investigation of Shape factor of Copper Particles in EHV Transformer under Directed Oil Flow" International Journal of Electrical Engineering and Technology, Vol 9 Issue 6 May - June 2016.
4. N.VasanthaGowri, "Monte - Carlo Analysis of Cylindrical particle Dislodgement in Power Transformer" International Journal of Electrical Engineering and Technology, Vol 8 Issue 4 July- August 2017.
5. N.VasanthaGowri, M.RamalingaRaju, B.P.Singh, "Analysis of Particle Movement and Partial Discharge in OFAF Power Transformers Using Computational Fluid Dynamics", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 1 (2018) pp. 783-790
6. N.VasanthaGowri, M.RamalingaRaju, B.P.Singh, "Analysis of Partial Discharge due to Movement of Spherical Particle in Power Transformer Using Computational Fluid Dynamics" International journal of Engineering & Technology IJT-UAE Vol:7, Issue 3.3 2018
7. N.VasanthaGowri, Zainab Akthar, "Finite Element Analysis of Power Transformer", International Journal of Mechanical Engineering and Technology, Vol 10, Issue 4 April 2019, PP 488-495
8. N.VasanthaGowri , "Thermal analysis on Power Transformer" International Journal of Electrical Engineering and Technology (IJEET), Vol 8 Issue 4 April - May 2019 2017.
9. N.VasanthaGowri, "Investigation of partial discharge due to copper spherical particle in power transformer under different oil flow models using CFD", SPRINGER The Smart Innovation, Systems and Technologies (SIST)". ISSN: 2190-3018.
10. N. VasanthaGowri, C.Harish, D.Harsha, " Modeling of Solar Electric Propulsion System for UAVs" International Journal of Recent Technology and Engineering, Volume 8 issue 2, July 2019, ISSN: 2277-3878
11. N. Vasantha Gowri, Analysis of movement of tiny spherical conductor in synthetic ester in power transformer using CFD", International Journal of Electrical Engineering and Technology (IJEET) Volume 11, Issue 4, June 2020, pp. 1-7
12. N. Vasantha Gowri, Comparison Of Field Augmentation Factor For Different Liquid Insulations In Power Transformer", International Journal of Electrical Engineering and Technology (IJEET) Volume 11, Issue 4, June 2020, pp. 218-224
13. G. Suresh Babu, T. Murali Krishna, C. Srisailam and N. Vasantha Gowri, "Performance Evaluation Of Dc Electric Spring Placed In Micro Grid Systems Using Solar PV Emulator", International Journal of Electrical Engineering and Technology (IJEET) Volume 11, Issue 4, June 2020S
14. N.VasanthaGowri, M.RamalingaRaju, B.P.Singh, "Investigation of Partial Discharge Due to Particle Movement in Power Transformer Using Computational Fluid Dynamics and Monte Carlo Technique" Journal of Institute of Engineers India Serie. B (June 2021) 102(3):509–519
15. Dr. N.VasanthaGowri, Dr. MohdNaved., Dr.PurnenduShekhar Pandey., DrAshim Bora. "An Utilization Of Robot For Irrigation Using ArtificialIntellegnece", International Journal of Future Generation Communication and Networking Vol. 14, No. 1, (2021), pp.1692–1704
16. DrHansarajShalikram Wankhede, Dr. N.VasanthaGowri, Bharath M N, Priyanka Sharma, "An Internet of Things For Prevention Of Security Attack On Cloud Medical Data Using Artificial Intelligence", International Journal of Grid and Distributed Computing", Vol. 14, No. 1 (2021), pp.1143-1161
17. T. Murali Krishna. N.VasanthaGowri, G. Suresh Babu, C. Harish, N.V. PhanendraBabu, "Performance Comparison Of BLDC Motor Based On Conventional And Expert Controllers", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, June 2021, pp. 211-220
18. T. Murali Krishna. N.VasanthaGowri, G. Suresh Babu, B. Akshita, Garv Agarwal, Mahesh Netha "Modelling And Development Of Controller For BLDC Motor", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, June 2021, pp. 200-210.
19. K. Krishnaveni, M. Swamy Das, G. Suresh Babu, T. Murali Krishna, N. Vasantha Gowri, "Alternative Approaches for Laboratory Learning And Assessment In Engineering Education - Open Source Alternatives", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, June 2021, pp. 221-230.
20. C.Harish, N.VasanthaGowri, "Design of Smart purchase cart for commercial application using Raspberry Pi and RFID", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, June 2021, pp. pp. 373-378.
21. Hemalatha, Pravin R krishnasagar, HariPrasad, VasanthaGowri N, vani A, Sana Qaiyum, vijayakumar P, SulaimaLebbe Abdul Haleem, "Novel Link Establishment Communication Scheme Against Selfish Attack Using Node Reward With Trust Level evaluation algorithm In MANET", Wireless Communication and Mobile computing, Volume 2022, pp1-9. 6/5/22
22. L. Chitra, N. Vasantha Gowri, M. Maheswari, DipeshUike, N. R. Medikonda, Essam A. Al-Amr "IoT-Based Solar Energy Measurement and Monitoring Model", International Journal of Photo Energy, October 2022

#### International /National Conferences

1. N.VasanthaGowri, R.Vidhya " Positive Train Control Programme" National Conference of Information and communication Techniques ICTCON-2 -3 Feb2007
2. N.VasanthaGowri, M.RamalingaRaju, " Comparative Analysis of Control Systems For Micro- Hydro Power Plants" National Conference on Power system Planning Operation and Optimization, JNTU Kakinada, 17 June 2011

3. N.VasanthaGowri, G.SureshBabu, "A Novel Bidirectiona DC- DC Converter drive" IEEE International Conference on Smart Structures and Systems (ICSSS), 28 Mar - 29 Mar 2016, PP 19-23.
  4. N.VasanthaGowri, M.RamalingaRaju, B.P.Singh, "Monte - Carlo Simulation of Particle Movement in an Un-Energized Transformer", IEEE Conference on Electrical Insulation and Dielectric Phenomena (CEIDP) October 2014, DOI: 10.1109/CEIDP.2014.6995755, Electronic ISBN: 978-1-4799-7525-9.
  5. N.VasanthaGowri, M.RamalingaRaju, B.P.Singh, "Occurrence of partial discharge induced by metal particles in high voltage transformer" North American Power Symposium (NAPS), 4-6 Oct. 2015, DOI: 10.1109/NAPS.2015.7335085, Electronic ISBN: 978-1-4673-7389-0.
  6. N.VasanthaGowri, Dr.P.V.Balasubhramaniyam, T.Murali Krishna, " Strategies for Loss Management in Distribution System" National Conference on Role of Engineers in the Development of New State of Telangana 23-24 Jan 2015, CBIT
  7. N.VasanthaGowri, M.RamalingaRaju, B.P.Singh, "Analysis Of High Voltage Transformers Using Computational Fluid Dynamics, Finite Element Method And Monte-Carlo Technique", National Conference on High Voltage Engineering, June 19th and 20th, 2015, JNTUHCEH, Hyderabad
  8. N.VasanthaGowri, B.P.Singh, M.RamalingaRaju, "Calculation Of Electrical Stress On Spherical Particle In A Power Transformer Using CFD" IEEE International Conference on Smart Structures and Systems (ICSSS), 23 Mar - 24 Mar 2016, PP 117-120.
  9. N.VasanthaGowri, B.P.Singh, M.RamalingaRaju, AbhayPanwalkar, "Simulation and Computational Fluid Dynamics Analysis of Particle Movement and its Effect on Partial Discharge In Power Transformer", 14th International conference on Transformer on "Global Trends in Transformer Technology for Indian Power System" TRAFOSEM –May 2017, PP 35-44.
- N.VasanthaGowri, M.RamalingaRaju, B.P.Singh, "Probabilistic Analysis Of Partial Discharge In Power Transformer Due To The Presence Of Spherical Particle", International Conference On Energy, Communication, Data Analytics And Soft Computing (ICECDS 2017), 01 - 02 Aug 2017, 978-1-5386-1887-5/17

