

Name of Faculty Dr. T. MURALI KRISHNA
 Designation Associate Professor
 Nature of Job/Appointment Regular
 Date of Joining 26 - 03–2008
 E-mail tmuralikrishna_eee@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Electrical)	Awarded
PG	M. Tech. (EPS)	Distinction
UG	A.M.I.E.	Second

Work Experience

Teaching	20Years (Includes research experience)
Research	5 Years
Industry	--
Others	--

Area of Specialization Power Systems, Power Electronics, FACTS, Wavelets

Professional Memberships Life Member, ISTE Number: LM43503
 Member, IE(I) Number: AM1201134

- Responsibilities held at Institution Level
1. Convener Chaitanya Reethi Club from 24-07-2019 to till date
 2. Member, NAAC Institutional Level Committee from 03-02-2021 to till date
 3. Member, NIRF Institutional Level Committee from 03-10-2020 to till date
 4. Member, IQAC Institutional Level Committee from 20-05-2021 to till date
 5. Member, Students Counselling Committee from 12-04-2021 to till date

- Responsibilities held at Department Level
1. In-charge for Power Electronics Lab (PG) Till date
 2. In-charge Power Electronics Lab (UG)from 18-08-2010 to Till date.
 3. Member, Course Expert Group
 4. Member Board of Studies from 16-09-2013 to 10-01-2018 and 01-06-2021 to till date.
 5. In-Charge Microprocessor Lab from 18-08-2010 to 10-01-2013.
 6. In-Charge ISO from 18-08-2010 to 10-01-2013.
 7. Department Placement Coordinator from 16-11-2007 to 17-08-2010
 8. In-Charge Guest Lectures from 04-05-2009 to 17-08-2010.
 9. In-Charge Timetable from 01-04-2008 to 17-08-2010
 10. In-Charge Department AICTE Projectsfrom 16-11-2007 to 03-05-2009.
 11. In-Charge, Department Website from 11-10-2008 to 03-05-2009.

Research Guidance Ph.D. Pursuing: 4

- Awards Received
1. Best Researcher Award by EET-CRS-8thFaculty Branding Awards-2020 on 19th July 2020
 2. Best Faculty Award by EET-CRS-8thAcademic Brilliance Awards-2020on 8th March 2020.
 3. Best Teacher Award by CBIT(A) on 9th March 2017
 4. Best Paper Award in IEEE Conference- ICSSS-2013by Saveetha Engineering College, Chennai

Courses Handled at Under Graduate / Post Graduate Level.
 Electromagnetic Theory, Power Electronics, Switchgear and Protection, Electric Circuits-I, Basic Electrical Engineering, Electrical and Electronics Engineering, Electrical Circuits-I, Electrical Circuits & Machines, Circuits and Measurements Lab, Power Electronics Lab, Power Systems Lab, Basic Electrical Engineering Lab, Simulation Lab, Electrical & Electronics Engineering Lab, Electrical Machines-I Lab, Advanced Power System Protection, Advanced Electric Drives, Power Systems and Power Electronics Lab

No. of Papers Published	National Journals – 00	International Journals – 26
	National Conference – 03	International Conference – 06
Projects Carried out	<ol style="list-style-type: none"> 1. Completed R&D project titled "Design and Development Grid Tied Inverter for Renewable Sources Applications", Sponsored by R&D, Institution of Engineers(India) Kolkata in 2016. 2. Completed R&D project titled "Design and Development of Solid Rotor Alternator" Sponsored by CBIT R&D in 2013. 	
Patents	--	
Technology Transfer	--	
Invited Speaker	<ol style="list-style-type: none"> 1. Resource person for Guest lecture on "Electromagnetic Fields" on 30-01-2021 at St. Peters Engineering College. 2. Resource person for workshop on "NIRF Faculty publications indexing and registrations and citations and patents" on online for JNTU Jagtial on 27-12-2020. 3. Resource person for workshop delivered lecture on "Modeling and Simulation of Power Electronic Converters", EEE Dept., UCE, JNTUK, Kakinada, 13-03-2018. 4. Resource person for AICTE FDP "Power Electronics for Renewable Energy Systems - Present Trends and Future Scope" (PERES-2017)", EEE Dept., CBIT(A) Nov-2017 5. Resource person for IQAC workshop on "Performance Measures in Academic and Research Aspects", delivered lecture on "Publications – Quality Parameters", CBIT, Hyderabad on 20-06-2017. 6. Resource person for National Level workshop on "Application of Power Electronics to Power Systems and Renewable Energy Sources", EEE Dept., GNITS, Hyderabad, March-2017 	
No. of Books/Chapter Published with details	--	

WS/ Seminars/ Conferences/ STTPS/ FDPs Attended

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

1. Successfully Completed "Electric Power System" an online non-credit course authorized by The State University of New York and offered through Coursera on 31-05-2020
2. Successfully Completed "Introduction to Electronics" an online non-credit course authorized by Georgia Institute of Technology and offered through Coursera on 05-05-2020
3. Successfully Completed "Linear Circuits-2 AC Analysis" an online non-credit course authorized by Georgia Institute of Technology and offered through Coursera on 29-04-2020
4. Successfully Completed "Linear Circuits-1 DC Analysis" an online non-credit course authorized by Georgia Institute of Technology and offered through Coursera on 23-04-2020
5. Successfully Completed e-learning program on "Induction Motor" an online course authorized by Tata Steel on 18-04-2020.
6. Successfully Completed e-learning program on "Power System Generation" an online course authorized by Tata Steel on 18-04-2020.
7. Successfully Completed e-learning program on "Transformer" an online course authorized by Tata Steel on 18-04-2020.
8. Successfully Completed e-learning program on "Power System Protection" an online course authorized by Tata Steel on 18-04-2020.
9. Successfully Completed "Introduction to Power Electronics" an online non-credit course authorized by University of Colorado and offered through Coursera on 16-04-2020.
10. Successfully Completed "Model a car and Design a PID controller in MATLAB/Simulink" an online course offered through Udemy on 16-04-2020
11. Successfully Completed "Power Electronics: Control and Simulation of PWM Inverters" an online course offered through Udemy on 06-04-2020.
12. Successfully Completed "MATLAB for Power Electronics: Simulation & Analysis" an online course offered through Udemy on 31-03-2020.
13. Successfully Completed "Fundamentals of Power Electronics Part-A" an online Eight-week graded course authorized by Deshya Technologies Pvt. Ltd. Incubated at IIT-Guwahati on 08-04-2017.

14. A six-day STTP titled "Principles and Advances in Electromagnetics" organized by Department of Physics, Centre for Continuing Education, IIT Madras from 22-03-2021 to 27-03-2021.
15. A webinar on "Advanced power converters for future power grids" organized by IEEE - PES Chapter, CBIT, Hyderabad on 10-03-2021.
16. A two-day workshop titled "NIRF India Rankings-2021 for Higher Educational" organised by Institute for Academic Excellence, Hyderabad during 18-01-2021 to 19-01-2021.
17. A five-day faculty development program on "Virtual Lab: Electronics and Communication Engineering" conducted by Madan Mohan Malaviya University of Technology, Gorakhpur, U. P, during 12-10-2020 to 16-10-2020.
18. A six-day STTP titled "Automotive Technology for Sustainable Future" organized by GokarajuRangaraju Institute of Engineering & Technology, Hyderabad from 07-09-2020 to 12-09-2020.
19. A five-day faculty development programme on "Blockchain Technology in Electrical Power Systems Applications" conducted by Srinidhi Institute of Science and Technology(A) Hyderabad, during 31-08-2020 to 04-09-2020.
20. A six-day STTP titled "Electric Vehicles: Challenges & Opportunities" organized by Sagar Institute of Research & Technology, Bhopal from 24-08-2020 to 29-08-2020.
21. A webinar on "Recent trends in Power Management Strategies for Optimal Operation of Distributed Energy Resources in Microgrids" organized by MGIT, Hyderabad on 28-07-2020.
22. A webinar on "Hands-on working with E-Tap. Modules: Draw SLD, Load Flow and Fault Current Study" organized by MGIT, Hyderabad on 26-07-2020.
23. A five-day faculty development program on "Controller Hardware-in-the-Loop Simulation: Tool for Future Electrical Engineers" conducted by MGIT, Hyderabad, on 24-07-2020 to 29-07-2020.
24. A Five-day online international FDP on "Renewable Energy Application in Smart Grid, Micro Grid and EVs (REASGMGEV-2020)" during 13-07-2020 to 17-07-2020.
25. A webinar on "Electrical Maintenance in Heavy Manufacturing Industries" organized by MGIT, Hyderabad on 17-07-2020.
26. A webinar on "Best Practices in Design and Installation of Solar PV Systems" organized by MGIT, Hyderabad on 15-07-2020.
27. Participated the India First Leadership Talk Series Webinar with Shri Shashi Shekhar, CEO, PrasarBharati, on 11-07-2020 conducted by MHRD's Innovation Cell.
28. A webinar on "Modeling of Correlated Uncertainties in Optimal Operation of Islanded Microgrids" organized by MGIT, Hyderabad on 10-07-2020.
29. A five-day faculty development program on "Real Time Aspects of Power System Scenario" conducted by MGIT, Hyderabad, during 06-10 July 2020.
30. A webinar on "Energy conservation and Auditing" organized by MGIT, Hyderabad on 02-07-2020.
31. A One-week online Refresher Course on "BharateeyaChaitanyam" during 29-06-2020 to 05-07-2020
32. A webinar on "Superconductivity and Its Applications" organized by MGIT, Hyderabad on 04-07-2020.
33. A three-day faculty development program on "Emerging Trends in Electrical Engineering" conducted by KITS Ramtek, NAGPUR during 02-07-2020 to 04-07-2020.
34. A Webinar on "Superconductivity and Its Applications" Organized by MGIT(A) on 04-07-2020.
35. A Webinar on "Energy Conservation and Auditing" Organized by MGIT(A) on 02-07-2020.
36. A Webinar on "Magnetic Levitation and High-speed Trains" Organized by MGIT(A) on 01-07-2020.
37. Participated the India First Leadership Talk Series Webinar with Shri DipendraManocha, (Motivational Speaker), on 27-06-2020 conducted by MHRD's Innovation Cell
38. A Two-day online Workshop on "Reliability and its

- Applications to Power System and Drives” during 26-06-2020 to 27-06-2020
39. A Webinar on “Publishing Research Articles in Scopus Indexed Journals s” Organized by CBIT(A) on 24-06-2020.
 40. Participated the India First Leadership Talk Series Webinar with Mr. Shridhar Venkat, CEO (Akshay Patra Foundation), on 20-06-2020 conducted by MHRD's Innovation Cell
 41. A Five-day online FDP on “Recent Challenges and Emerging Techniques on Microgrid” during 16-06-2020 to 20-06-2020
 42. A Webinar on “Online Teaching Learning and Online assessment Demo” Organized by Inpods Ed-tech on 17-06-2020.
 43. Participated the India First Leadership Talk Series Webinar with Shri R Subrahmanyam, IAS (Secretary Ministry of Social Justice & Empowerment), on 13-06-2020 conducted by MHRD's Innovation Cell
 44. A Webinar on “CO-PO Attainment Computation Analysis” Organized by Inpods Ed-tech on 13-06-2020.
 45. A Five-day FDP on “Recent Trends in Electrical Engineering” on on-line during 08-06-2020 to 12-06-2020
 46. A Two-day Webinar on “Application of ICT Tools in Research” Organized by RAI University, Ahmedabad, on 10-06-2020 & 11-06-2020
 47. A Webinar on “Python Programming & Industrial Applications” Organized by Ethiraj College for Women, Chennai, 09-06-2020
 48. A Webinar on “Simulation Driven Innovation for e-Mobility” Organized by Altair on 09-06-2020.
 49. Participated the India First Leadership Talk Series Webinar with Ms. Ashwini Deshpande (Co-Founder & Director Elephant Design), on 06-06-2020 conducted by MHRD's Innovation Cell
 50. A Webinar on “Effective Role of Teachers in Enhancing Standards of Technical Education” Organized by GIST, Nellore, 06-06-2020.
 51. A Five-day FDP on “AI Solutions to Power System Problems” on on-line during 02-06-2020 to 06-06-2020.
 52. A Webinar on “How to Publish Research Article in SCI Journals using Info-Graphic Tools” Organize by RAI University, Ahmedabad on 04-06-2020.
 53. A One-week FDP on “Outcome Based Education and NBA Accreditation Process (UG)” on on-line during 28-05-2020 to 01-06-2020
 54. Participated the India First Leadership Talk Series Webinar with Dr. Nilesh N Oak, Expert (Indian Civilization & History), on 30-05-2020 conducted by MHRD's Innovation Cell
 55. A One-week FDP on “Recent Advances in Power Electronics Applications with MATLAB Simulations” organized by NIT Patna on on-line during 25-05-2020 to 30-05-2020
 56. A Five-day National Level FDP on “Artificial Intelligence” on on-line during 22-05-2020 to 26-05-2020
 57. A One-week FDP on “Research Opportunities in Electrical Engineering and its Applications” on on-line during 18-05-2020 to 23-05-2020
 58. Participated the India First Leadership Talk Series Webinar with Mr Mahesh Babu CEO Mahindra Electric Mobility Ltd., 23-05-2020 conducted by MHRD's Innovation Cell
 59. Participated in Fifteen online sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28-04-2020 to 22-05-2020.
 60. A Webinar on “Recent Trends in Power Electronics Using MATLAB” Organized by St. Peter's Engg. College, Hyderabad, 22-05-2020.
 61. A Webinar on “Machine Learning and Deep Learning” Organized by Kasturba Gandhi PG College for Women, Hyderabad on 20-05-2020.
 62. A Webinar on “Quality Assurance in Online Teaching Learning & Evaluation” Organized by Vellore Institute of Technology, Vellore on 19-05-2020.
 63. A MHRD-IIC Two day Webinar on “Startup Lifecycle and Patent Registration” Organized by Atharva College of

- Engineering on 18-05-2020 & 19-05-2020.
64. Participated the India First Leadership Talk Series Webinar with Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited and Dr. Abhay Jere, Chief Innovation Officer, 16-05-2020 conducted by MHRD's Innovation Cell
 65. A Webinar on "Mental Health Awareness or COVID-19" Organized by Dumka Engg. College on 16-05-2020.
 66. A Webinar on "Deep Vision for Autonomous Self Driving Cars" Organized by University College for Women, Hyderabad 16-05-2020.
 67. A Two-day FDP on "Innovative Approaches in Mathematics Lecture Series-II" on on-line during 13-05-2020 to 14-05-2020.
 68. Participated the India First Leadership Talk Series Webinar with Prof D. P. Singh, Chairman UGC, 09-05-2020 conducted by MHRD's Innovation Cell
 69. A Five-day National FDP on "Micro-Controller Based Embedded System Design" on on-line during 04-05-2020 to 08-05-2020.
 70. A One Week AICTE STTP on "Introduction to Research Methodology & MATLAB Programming for Optimization Techniques" at CBIT, Hyderabad during 25-11-2019 to 31-11-2019
 71. A Two-day Seminar on "Advanced Solar PV Technologies" at IICT, Hyderabad during 14-10-2019 to 15-10-2019
 72. A One Week online-STTP on "Development of Laboratory Instruction and Manual" at CBIT, Hyderabad during 04-02-2019 to 08-02-2019
 73. A One Week MHRDFDP on "Internet of Things" at NIT Warangal during 08-05-2017 to 13-05-2017.

WS/ Seminars/ Conferences/ STTPs/ FDPs Organized

1. Organized One Week AICTE STTP (Phase-III) on "Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector", during 22-02-2021 to 27-02-2021.
2. Organized One Week AICTE STTP (Phase-II) on "Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector", during 02-11-2020 to 07-11-2020.
3. Organized One Week AICTE STTP (Phase-I) on "Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector", during 03-08-2020 to 08-08-2020.
4. Organized an online webinar on "Trends and Challenges in the Progress of E-Mobility in India" in association with Pantech on 20-06-2020.
5. Organized a Two-Week Training/Internship Program on "Simulation Tools for Electrical and Electronics Engineering" VidyutPrasikshana VIPRA-2020 on online during 08-06-2020 to 20-06-2020.
6. Organized a Seminar/Impact Lecture Session on "Innovations and IPR" in association with MHRD Innovation Cell in CBIT(A) on 04-03-2020.
7. Organized National Energy Conservation Week Celebrations during 14-12-2019 to 20-12-2019.
8. Organized an International Conference on "Vedic Mathematics" in Association with IAVM during 29-08-2019 to 31-08-2019.
9. Organized a One-day Workshop on "Significance of MATLAB in Applications of Emerging Technologies in Association with MATHWORKS, on 26-06-2019.
10. Organized a Five-day On-line STTP on "Development of Laboratory Instruction and Manual" in Association with NITTTR Kolkata during 04-02-2019 to 08-02-2019.
11. Organized National Energy Conservation Week Celebrations during 14-12-2018 to 20-12-2018.
12. Organized a Three-day Workshop on "Simulation of Power Electronic Converters" during 26-02-2018 to 28-02-2018.
13. Organized Two-Week AICTE FDP on "Power Electronics for Renewable Energy Systems - Present Trends and Future Scope" (PERES-2017)", during 13-11-2017 to 25-11-2017.
14. Organized a Three-day R&D Conclave on "Challenges and Opportunities for Research and Development of Power and Energy" during 01-02-2017 to 03-02-2017.

International Journals from the year 2017

1. G. Suresh Babu, A. Venkat Rao, C. Sharath Chandra and T. Murali Krishna, (2021) Adaptive Neuro Fuzzy Inference System Controller for Islanded Microgrid Under Nonlinear Load Conditions, International Journal of Electrical Engineering and Technology (IJEET), Volume-12, Issue-6, pp. 422-436
2. K. Krishnaveni, M. Swamy Das, G. Suresh Babu, T. Murali Krishna and N. Vasantha Gowri (2021) "Alternative Approaches for Laboratory Learning and Assessment in Engineering Education – Open Source Alternatives", International Journal of Electrical Engineering and Technology, Volume 12, Issue 6, pp.221-230.
3. T. Murali Krishna, N. Vasantha Gowri, G. Suresh Babu, C. Harish, N.V. Phanendra Babu and B. Akshita (2021) "Performance Comparison of BLDC Motor Based on Conventional and Expert Controllers", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, pp. 211-220.
4. T. Murali Krishna, N. Vasantha Gowri, G. Suresh Babu, B. Akshita, Garv Agarwal and Mahesh Netha, "Modelling and Development of Controller for BLDC Motor", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, pp. 200-210.
5. C. Harish, T. Murali Krishna, G. Suresh Babu, N.V. Phanendra Babu and D. Hrishikes Sai, (2021), "Simulation of IGBT based Solid State Fault Current Limiter using MATLAB/Simulink", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, pp. 140-149.
6. P. Chow Reddy, G. Suresh Babu and T. Murali Krishna(2020) "A Novel Approach in Audio Compression using Vedic Concepts", International Journal for Research in Applied Science & Engineering Technology, Volume 8, Issue 7, pp.1122-1125.
7. G. Sreelekha and T.Murali Krishna (2020) "Comparison Of DC-DC Converters for Renewable Energy Applications", Strad Research Journal, Volume 7, Issue 7, pp.303-308.
8. G. Suresh Babu, N. R. Sai Varun, T. Murali Krishna, C. Harish and D. Harsha (2020) "Performance Analysis of DC-DC Converter based Standalone PV System using Cloud Connected Solar PV Emulator" Strad Research Journal, Volume 7, Issue 6, pp.440-447.
9. G. Suresh Babu, T. Murali Krishna, C. Srisailam and N. Vasantha Gowri (2020) "Performance Evaluation of DC Electric Spring Placed in Micro Grid Systems Using Solar PV Emulator", International Journal of Electrical Engineering & Technology, Volume 11, Issue 4, pp.246-256.
10. T. Murali Krishna, B. Geethanjali, N. Gouthami and L. Udaysree(2020) "Performance of Five Level Inverter with Different Multilevel Topologies" Strad Research Journal, Volume7, Issue 6, pp.435-439.
11. G. Suresh Babu, Sivasankar Venugopal, T. Murali Krishna (2020) "Inverse Definite Minimum Time Relay Coordination in Radial Traction System", International Journal of Electrical Engineering & Technology, Volume 11, Issue 4, pp.159-168.
12. T. Murali Krishna, K. Krishnaveni, G. Suresh Babu, D. Sushma and C. Harish (2019) "Performance Evaluation of Induction Motor for Unipolar and Bipolar Pulse Width Modulation Techniques", International Journal of Innovative Technology and Exploring Engineering, Volume 8, Issue 10, pp. 3626-3629.
13. T. Murali Krishna, Deepak Gehlot, N. Anusha and G. Suresh Babu (2018) "Three Phase Grid Connected PV System with LVRT Control Strategy", International Journal of Mechanical Engineering and Technology, Volume 9, Issue 7, July 2018, pp. 579–585.
14. K. Krishnaveni, T. Murali Krishna and Y. Lakshmi Priyanka (2018) "SPWM Based Matrix Converter for Industrial Application MATLAB Simulation", International Journal of Mechanical Engineering & Technology, Volume 9, Issue 4, pp.346-352.
15. G. Suresh Babu, B. Prem Charan and T. Murali Krishna (2018) "Performance Analysis of SPV Module Using Solar PVTR System", International Journal of Engineering & Technology, Volume 7, No.3.3, pp. 68-72.
16. T. Murali Krishna (2018) "Performance Analysis of Five Level Neutral Point Clamped Inverter with and Without Pulse Width Modulation", International Journal of Innovative Research & Studies, Volume 8, No. 4, pp.133-138.
17. T. Murali Krishna, N. Santhosh Kumar, D. Akhila and D. Balaji (2018) "Comparison of Performance of Seven Level Neutral Point Clamped and Multi Source Topologies" International Journal of Engineering Research and Development, Volume 14, Issue 4, pp.43-48.
18. T. Murali Krishna (2018) "Evaluation of Induction Motor Performance for Three Different Diode Clamped Multi Level Inverters", International Journal of Electrical Engineering & Technology, Volume 9, Issue 2, pp.13-19.
19. T. Murali Krishna (2018) "Microcontroller Based Modeling of Three Level Neutral Point Clamped Inverter" International Journal of Innovative Research & Studies, Volume 8, Issue 3, pp.431-436.
20. T. Murali Krishna, Paramhansa and N. Ashwini (2018) "Modeling and Simulation of

Electrical Power Subsystem of a Nano Satellite using MATLAB”, Helix International Journal, Volume 8, No 2, pp.3031-3035.

21. T. Murali Krishna, G. Suresh Babu and B. Supraja (2018) “Simulation and Performance Analysis of Multi Source Inverter Topology for Renewable Energy Systems”, International Journal of Emerging Technology and Advanced Engineering, Volume 8, Issue 2, pp.53-56.
22. T. Murali Krishna, C. Harish and N. Anusha (2018) “Modeling and Performance Analysis of Six Level Inverter for Medium Voltage Drives”, International Journal of Emerging Technology and Advanced Engineering, Volume 8, Issue 1, pp.176-180.

International /National Conferences from the year 2017

1. T. Murali Krishna, P. Lakshmi Supriya and C. Harish (2020) “Performance Evaluation of Inverter for Different Pulse Width Modulation Techniques” National Conference on Recent Trends in Electrical Engineering, NCRTEE-2020, pp.28-29.
2. G. V. Aparna, G. Suresh Babu and T. Murali Krishna (2018) “Simulation and Analysis of Single-Phase Full Bridge Diode Rectifier with Different Passive Power Factor Correction Techniques”, IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering, ICRIEECE-2018, pp. 2351-2355.