1	Name of Faculty	Dr. K. Krishnaveni	
2	Designation	Professor	
3	Nature of Job/Appointment	Regular	
4	Date of Joining	06 - 10 - 1997	
5	E-mail	krishnaveni_eee@cbit.ac.in	
6	Education Qualifications	**Name of the Degree**	**Class**
	Ph. D	Doctor of Philosophy (EEE)	Awarded
	PG	M. Tech. (Power Electronics).	Distinction
	UG	B. Tech (EEE)	Distinction
7	Work Experience		
	Teaching	32 Years(28 years at CBIT)	
	Research	15 years(academic research)	
	Industry	--	
	Others	--	
8	Area of Specialization	Power Electronics, FACTS	
9	Professional Memberships	Member, IE(I)	
10	Responsibilities held at Institution Level	1. Vice-Principal(Academics) from October 2024 to till date 2. Controller of Examinations(Additional Charge) from October 2025-till date 3. Chair Person, ICC from 2020 to till date. 4. Member, Governing Body 5. Member, NAAC-C1, Monitoring team 6. Director, Academics, from 11-05-2020 to 24.09.2023 7. Director, Student Progression from 22-10-2018 to 30-06-2020. 8. Dean, Student Progression 24-07-2017 to 21-10-2018. 9. Convener, Institute level Committee- NBA 10. Member, Anti-ragging Committee 11. Member, Academic Council.	
11	Responsibilities held at Department Level	1. Head, Department of EEE, from 24-07-2008 to30-06-2016 2. Coordinator, PG(PS&PE) from 01-07-2006 to 30-06-2008 3. Coordinator, BoS works 4. Member BoS 5. Member, DAB 6. Member, PAQIC 7. Incharge Course Expert Group. 8. Member, DRC	
12	Research Guidance	**Ph.D:** Five awarded, Three submitted.	
13	Awards Received	1. Sir Thomas Ward Memorial Prize, IE(I) -2018 2. Distinguished Women in Engineering(Electrical),2019, Venus International Foundation, 2019 3. Adarsh Vidya Saraswati Rashtriya Puraskar, National Award of Excellence, 2020. 4. Best Academician Award (Pride of Education, Teachers' day awards), 5th September 2021, Puducherry.	
14	Courses Handled at Under Graduate / Post Graduate Level.	UG: Basic Electrical Engineering, Electrical Circuit Analysis , Electrical Drives, Digital Electronics & Logic Design, Digital Signal Processing, High Voltage DC Transmission(HVDC), Control Systems, PG: Analysis of Power Converters, Flexible AC Transmission(FACTS),Power Semiconductor Devices and Circuits(PSDC).	
15	No. of Papers Published	National Journals – 1	International Journals – 39
		National Conference – 7	International Conference – 9
16	Projects Carried out		--
17	Patents		Published :4Nos
18	Technology Transfer		--
19	Invited Speaker	Technical Chair for Workshop titled "Sustainable India 2023", which is organized by Sustainability and Energy Practitioners Association	

20	No. of Books/Chapter Published with details	(SEPA) in collaboration with the department of EEE CBIT during 23rd and 24th August 2023. 1. Published One Monograph -- Titled “Resilient Micro Inverter: Design, Simulation and Implementation”, 2020, Lambert Academic Publishing. 2. Thota Srinivas, K. Krishna Veni, P. Satish Kumar, “Battery Supported Solar PV Panel Based Multilevel Inverter with Optimal PI Controller Using Hybrid GA-PSO Algorithm”, Advances in Engineering Research, ISBN: 10.2991/978-94-6463-252-1_73, 9 November 2023, 10.2991/978-94-6463-252-1_73, Atlantis Press(Part of Springer Nature) 3. Abhilash Budharapu, Mohammed Amaan, Poojith Ramagiri, K. Krishnaveni, “Facial Recognition System with Secured Dynamic Implementation and Time Restriction”, Intelligent Computing and Communication, ISBN: 978-981-99-1588-0, 20 September 2023, DOI 10.1007/978-981-99-1588-0_56, Springer, Singapore, Part of the Advances in Intelligent Systems and Computing book series (AISC,volume 1447) 4. Anitha, G., Krishnaveni, K., Yesuratnam, G. (2025). A Study of Four-Switch Three-Phase Inverter Using SVPWM Technique. In: Krishan, R., Pullaguram, D.R., Salkuti, S.R. (eds) Smart Grid Stability and Control. ICSPER 2024. https://doi.org/10.1007/978-981-97-8634-3_40 . 5. Deepa N.;Krishnaveni K.;Mallesham G., “Enhancing Grasshopper Techniques to Reduce Torque Ripples in Switched Reluctance Motor”, Power Energy and Secure Smart Technologies, Volume , Year 2025, Pages 147-153. https://doi.org/10.1201/9781003661917 6.
21	Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (**Attended and/or Organized**).	1. Successfully Completed “Write Professional Emails in English” an online non-credit course authorized by Georgia Institute of Technology and offered through Coursera on 15-05-2020 2. Successfully Completed “NBA Accreditation and Teaching-Learning in Engineering(NATE)” offered by NPTEL, Jan-April 2020 3. Organized one week FDP on “Exploring the Significance of Indian Knowledge Systems (IKS) in the Context of National Educational Policy (NEP) 2020-The Role of Higher Educational Institutions (HEI)” from 05-10 Feb 2024. 4. Organized(convener) a Three Day Online Workshops on Universal Human Values-II: Understanding Harmony 20–22 September, 2021 5. Organized an in-house Semester Readiness Program (SRP) from 23rd & 24th Nov’ and 2nd &3rd Dec’ 2020. 6. Organized a One Week Faculty Development Program on “Outcome Based Education and NBA Accreditation Process(UG)”, from 28-05-2020 to 01-06-2020 7. Organized a One Week STTP in Association with NITTR, KOLKATA on NBA Accreditation”, during 22- 26 April, 2019. 8. Organized a Two Week AICTE Sponsored FDP on “Power Electronics for Renewable Energy Systems- Present Trends and Future Scope”, from 13-25, November, 2017. 9. Vice Chairperson, a Two Day National Conference on “Role of Engineers in the Development of New State of Telangana” NC-REDNeST at CBIT during 23- 24 Jan 2015. 10. Served as a “Reviewer” in ICIET 2022 held at JNTUH, Hyderabad, India during 15-17 September 2022. 11. Served as a “Reviewer” in ICICC-22 during 18th – 19th November 2022, held at GNITS, Hyderabad, India. 12. Participated in One week FDP, “Quality Education through OBE- 22nd to 27th Jan 2024”, organized by department of IT, CBIT, Hyderabad. 13. anticipated & completed successfully AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "iATP (indigenous Automatic Train Protection) system - KAVACH" from 05-09-2022 to 16-09-2022 at Indian Railway Institute of Signal Engineering and Telecommunications. 14. Successfully completed the Online Orientation Training Programme for Mentors organized from 01 - 05 February 2021 under National Initiative for Technical Teachers

Training organized by NITTTE/R and AICTE.

15. Participated in One Week Short Term Training Program(Phase-2) on “Trends and Challenges of hybrid Electric Drive Utilities in Transport Sector” organized by Department of EEE, CBIT, Hyderabad during 02nd-07th November 2020.
16. Participated in two day workshop on Power Electronics application in Electrical Systems(PEAES-2020), organized by department of EE JNTUH, Hyderabad on 28th and 29th December 2020.
17. Successfully Completed the online Orientation Training Program for Mentors organized from 01-02-2021 t0 05-02-2021 under national initiative for Technical Teachers Training.
18. Participated in a One Week Online Refresher Course on “BHARATEEYA CHAITANYAM” organized by ‘Geervana Bharathi’ of ‘Chaitnya Samskruthi’, CBIT, Hyderabad from 29-06-2020 to 05-07-2020
19. Attended Four Days Online Course on “Examination Reforms” Conducted during 22-25, April 2020, Organized by AICTE.
20. Participated in Second Edition of Two Day Workshop and Vendors Meet on “Advanced Solar PV Technologies”, Organized by SEPA at IICT, Hyderabad, during 14-15 Oct, 2019.
21. Attended two day work shop on “Leadership Challenges to Professional Woman”, during 4-5 Jan 2019, organized by Wie (IEEE)&OUCE, Hyderabad.
22. Attended a One Week GIAN course on “Integration of Electrically Coupled Energy Resources and Apparatus in Electrical Power Systems”, organized by IIT Bhubaneswar, during 19-23 Feb, 2018.

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

International/National Journals from the Year 2017:

1. Golkonda Anitha, Kondreddi Krishnaveni, Guduri Yesuratnam, “ SVPWM technique for 3-ph 6-switch and 3-ph 4-switch inverters - a comparison”, International Journal of Power Electronics and Drive Systems vol 15, No.4. http://doi.org/10.11591/ijpeds.v15.i4.pp2334-2343
2. Golkonda Anitha, Krishnaveni Kondreddi, Guduri Yesuratnam, “A new modified B4 inverter using SRF controller with SVPWM technique for grid-connected PV system”,Indonesian Journal of Electrical Engineering and Computer Science, Vol.38, No.3. http://doi.org/10.11591/ijeecs.v38.i3.pp1411-1421
3. Srilakshmi K, Kondreddi K, Swarnasri K, Balachandran PK, Atiqi Mohd Zainuri MA. An optimal design of ANNC-PID technique for renewable/ hydrogen energy powered seven-level shunt active power filter Using enhanced lyrebird algorithm. *Energy Exploration & Exploitation*. 2025;44(1):137-161. https://doi.org/10.1177/01445987251366854
4. Srilakshmi, K., Kondreddi, K., Ramadevi, A. *et al.* Grid connected and standalone renewable source fed UPQC: a hybrid control technique for power quality enhancement. *Discov Appl Sci* **7**, 147 (2025). https://doi.org/10.1007/s42452-025-06562-9
5. Koganti Srilakshmi, Amit Kumar, Krishnaveni Kondreddi, T. Murali Krishna, Praveen Kumar Balachandran, Gianluca Gatto, “Design of solar and energy storage systems fed reduced switch multilevel converter with flower pollination optimization”, Journal of Energy Storage, volume 99, Part A, 2024,113324, ISSN 2352-152X, https://doi.org/10.1016/j.est.2024.113324 .
6. Srilakshmi, K., Kondreddi, K., Gowri, N.V. *et al.* Optimal design of hybrid green energy powered reduced switch converter based shunt active power filter using horse herd algorithm. *Sci Rep* **14**, 20447 (2024). https://doi.org/10.1038/s41598-024-71100-3 .
7. Srilakshmi, K., Ramadevi, A., Reddy, J. G. P., Krishna Jyothi, K., Kondreddi, K., Balachandran, P. K., & Colak, I. (2024). A New Control Scheme for Wind/Battery Fed UPQC for the Power Quality Enhancement: A Hybrid Technique. IETE Journal of Research, 70(11), 8184–8191. https://doi.org/10.1080/03772063.2024.2370959 .
8. B. Kiruthiga, R. Karthick, I. Manju and K. Kondreddi, "Optimizing Harmonic Mitigation for Smooth Integration of Renewable Energy: A Novel Approach Using Atomic Orbital Search and Feedback Artificial Tree Control," in Protection and Control of Modern Power Systems, vol. 9, no. 4, pp. 160-176, July 2024, https://doi.org/10.23919/PCMP.2023.000577 .
9. Koganti Srilakshmi, Gummadi Srinivasa Rao, Katragadda Swarnasri, Sai Ram inkollu, Krishnaveni Kondreddi, Praveen Kumar Balachandran, Ilhami Colak, “Optimization of ANFIS controller for solar/battery sources fed UPQC using an hybrid algorithm”, Electrical Engineering journal (2024). (https://link.springer.com/article/10.1007/s00202-023-02185-8)
10. Gowri, N.V., Dwivedi, J.N., Krishnaveni, K. et al. Experimental investigation and multi-objective optimization of eco-friendly near-dry electrical discharge machining of shape memory alloy using

Cu/SiC/Gr composite electrode. Environ Sci Pollut Res (2023).(https://doi.org/10.1007/s11356-023-26983-6)

11. Vankudothu Balu, K. Krishnaveni,Priyanka Malla, Siva Ganesh Malla, "Improving the Power Quality and Hydrogen Production from Renewable Energy Sources based Microgrid", Engineering Research Express, Volume 5, Year 2023, Pages 035037. http://doi.org/10.1088/2631-8695/acecdb (Scopus-IOP journals)(https://iopscience.iop.org/article/10.1088/2631-8695/acecdb/meta)
12. B. Muthuraj, G. Suresh Babu, K. Krishnaveni S. Arun Jayakar(2022), "Parameters' Optimization in Compressed Air Pressure Process Using Hybrid Fmin–GA-Based PID and Fractional Order Internal Model Controller", IETE Journal of Research. https://doi.org/10.1080/03772063.2022.2139297
13. K.Krishnaveni "Assessment and Evaluation of Professional Skills in Engineering Education", Journal of Interdisciplinary Cycle Research, Vol. XIII, issue VI, pp.986-996, June 021.
14. K. Krishnaveni, M. Swamy Das, G. Suresh Babu, T. Murali Krishna and N. VasanthaGowri, "Alternative Approaches for Laboratory Learning and Assessment in Engineering Education – Open Source Alternatives", International Journal of Electrical Engineering and Technology (IJEET), 12(6), 2021, pp.221-230, June 2020, Impact factor 3.07, ISSN-0976-6553,doi:10.34218/IJEET.12.6.2021.021.
15. P. Kowstubha, K.Krishnaveni, Bandela Supriya, C.Mahesh "A New hybrid Control Scheme for Seven level Asymmetric Cascaded H-Bridge Multilevel Inverter", Journal of Interdisciplinary Cycle Research, Vol. XIII, issue IV, pp.2079-2087, April 2021.
16. K. Krishnaveni, Raga Batta, Sowmya. D; Rahul. B, Ranadheer.K, "Multi-Motor Condition Monitoring System Using Iot", Proteus Journal(Multidisciplinary Journal, Vol. 12, No. 4, pp. 14-19, April 2021, ISSN 0889-6348, Impact factor –1.125. (WOS Indexed)
17. K.Krishnaveni "Assessment and Evaluation of Professional Skills in Engineering Education", Journal of Interdisciplinary Cycle Research, Vol. XIII, issue VI, pp.986-996, June 021.
18. K. Krishnaveni and M. Swamy Das, G. Suresh Babu, T. Murali Krishna and N. VasanthaGowri, "Alternative Approaches for Laboratory Learning and Assessment in Engineering Education – Open Source Alternatives", International Journal of Electrical Engineering and Technology (IJEET), 12(6), 2021, pp.221-230, June 2020, Impact factor 3.07, ISSN-0976-6553,doi:10.34218/IJEET.12.6.2021.021.
19. P. Kowstubha, K.Krishnaveni, Bandela Supriya, C.Mahesh "A New hybrid Control Scheme for Seven level Asymmetric Cascaded H-Bridge Multilevel Inverter", Journal of Interdisciplinary Cycle Research, Vol. XIII, issue IV, pp.2079-2087, April 2021.
20. K. Krishnaveni, Raga Batta, Sowmya. D; Rahul. B, Ranadheer.K, "Multi-Motor Condition Monitoring System Using Iot", Proteus Journal(Multidisciplinary Journal, Vol. 12, No. 4, pp. 14-19, April 2021, ISSN 0889-6348, Impact factor –1.125. (WOS Indexed)
21. Ch.Venkata Krishna Reddy, K.Krishna Veni, G.Tulasi Ram Das(2019) "ANN Controller for Damping of Oscillations using Interline Power Flow Controller of AC Transmission System", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-6,
22. MuraliKrishna.T, Krishna Veni.K, SureshBabu.G, Sushma.D., Harish, C. (2019) "Performance evaluation of Induction motor for Unipolar and Bipolar Pulse Width Modulation Techniques", International Journal of Innovative Technology and Exploring Engineering, vol-8, Issue-10 pp.3626 -3629.
23. Divya Sai Nemmani, Ravi Kumar Bayyarapu, Bhagyasri Ravva, Krishnaveni Kondreddi, Yagna Prasad Kotra(2019) "SCADA System Application for Power Distribution in Hyderabad City", Journal of Computational Information Systems pp79-88.
24. Ch.Venkata Krishna Reddy, G.Tulasi Ram Das, K.Krishna Veni(2019) "Analysis of AC Transmission System Using Fuzzy Logic Controller for Damping of Low Frequency Oscillations with Interline Power Flow Controller" , International Journal of Applied Engineering Research ISSN 0973-4562 Volume 14, Number 9 pp. 2148-2155
25. K. Krishnaveni, TM Krishna, YL Priyanka(2018) "SPWM Based Matrix Converter for Industrial Application-MATLAB Simulation", International Journal of Mechanical Engineering and Technology, Vol-9, Issue-4, pp. 346-352,
26. Ch.Venkata Krishna Reddy, K.Krishna Veni, G.Tulasi Ram Das(2018) "Analysis of AC Transmission System using IPFC for Damping of Low Frequency Oscillations with PI Controller" International Journal of Applied Engineering Research, Vol.13, No.6, pp. 4434-4439, ISSN:0973-9769, UGC Approved.
27. Palle Kowstubha, K Krishnaveni, K Ramesh Reddy(2017) "Electronic Power Conditioner for Ku-Band Travelling Wave Tube", Springer: J. Inst. Eng. India Ser. B Published online on 26th July 2016 with DOI 10.1007/s40031-016-0257-1. , Vol. 98, Issue No.02, pp 213-220.

International /National Conferences from the Year 2017:

1. Bind N.K.;Krishnaveni K.;Rao B.S.;Singh V.;Munisekhar S.;Kamal N.;Babu C.L.,"Fopid Controllers Based Forward DC to DC Converter With Modified Osprey Optimization Algorithm for MPPT of PV System Under Partial Shading Conditions", *2025 First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT)*, Bhimtal, Nainital, India, 2025, pp. 1076-1081, doi: https://doi.org/10.1109/CE2CT64011.2025.10939747
2. T. M. Krishna, K. Kondreddi, N. V. Gowri and C. Anil Bharadwaj, "Converter Topology to Integrate Battery Storage with Modular Multilevel Converter," *2025 International Conference on Power Electronics Converters for Transportation and Energy Applications (PECTEA)*, Jatni, India, 2025, pp. 1-6 https://doi.org/10.1109/PECTEA61788.2025.11076307
3. K.Krishnaveni; Kothai Andal C; T.Murali Krishna; S Vijay Shankar; Neel Kamal; V. Mangaiyarkarasi"Enhancement of Power Quality for PV-Wind- SMES-FC-AE-Battery based Standalone Microgrid," 2025 International Conference on Computing Technologies (ICOCT), Bengaluru, India, 2025,

pp. 1-6, https://doi.org/10.1109/ICOCT64433.2025.11118909
4. B. Manimekala, T. Aravind, T. Sounderrajan, V. Rajakumareswaran, K. Kondreddi and K. Mohanambal, "Cryptographic Protocols for Securing Internet of Things (IoT)," 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 2024, pp. 1-6, https://doi.org/10.1109/ICCCNT61001.2024.10725019
5. Vankudothu Balu, K. Krishnaveni , P. Srinivas, "TSK-Fuzzy Controllers for Novel Energy Management System of Renewable Energy Sources based AC Microgrid with Five Level Inverter", IEEE 10th Power India International Conference (PIICON), 25-27 November, 2022, held at NIT, Dhelhi.
6. Abhilash Budharapu, Mohammed Amaan, Poojith Ramagiri, Krishnaveni K, "Facial Recognition System with Secured Dynamic Implementation and Time Restriction", ICICC-22 during 18th - 19th November, 2022, held at GNITS, Hyderabad, India.
7. P.Kowstubha,, K.Krishnaveni, "Design and Control of LLC Resonant Converter used in Distributed Power Systems", Power Engineering Research Summit (PERS'20),organized by SREC, Coimbatore, 29th Feb' 2020.
8. Heena Nikhat, K.Krishnaveni, N.R.SaiVarun, "Application of Z-Source Sparse Matrix Converter for Microturbine Generators with Fuzzy and PI controllers –A comparison", ICIMES-2019, MRCET, Hyderabad, 21-22 June, 2019.
9. V.Chandra Sekhar, K.Krishnaveni, "Comparative study of different PWM Techniques used for Five-Level Cascaded H- Bridge Inverter based DSTATCOM", international conference, IEEE-ICRIEECE ,KITS, Bhubaneswar, July 2018.
10. G.Surender, K.Krishnaveni, B.P.Muni "Modeling, Analysis and Simulation of Two-level and Three-level Voltage Source Converter for HVDC System', international conference, IEEE-ICRIEECE ,KITS, Bhubaneswar., July 2018