Name of Faculty Designation

Nature of Job/Appointment

Date of Joining

E-mail

Education Qualifications

Ph. D PG

UG

Work Experience

Teaching Research

Industry

Others

Area of Specialization

Professional Memberships

Responsibilities held at Institution Level

at Department

Responsibilities held Level

Research Guidance

Awards Received

Courses Handled at Under Graduate / Post Graduate Level.

No. of Papers Published

Projects Carried out

Patents

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).

Dr. B. Krishna Chaitanva

Assistant Professor

Regular

28 - 01 - 2021

krishnachaitanyab_eee@cbit.ac.in

Name of the Degree

Doctor of Philosophy (Power Systems)

M. Tech. (Power Systems & Automation)

B. Tech. (EEE)

Class

Awarded

Distinction

Distinction

3 Years

05 years

System Protection, Micro-grid, Signal processing PatternRecognition Application to Power System, Machine Learning

Engineering, Power Systems Operation and Basic Electrical Control, Power System Protection, Smart Grid, Real Time Applications for Power Systems, Basic Electrical Engineering Lab, Power Systems Lab, Electrical Machines-I Lab, Control Systems Lab

National Journals -

International Journals - 11

00

National Conference

International Conference - 03

- Published one book chapter titled "A comprehensive review of islanding detection methods", in book titled "Uncertainties in Modern Power Systems". Publication: Academic press (Elsevier), 2020, pp. 211-256, ISBN: 978-0-12-820491-7.
- Five-day faculty development programmeon "Data-Driven Strategies in Smart Power System and Control", 22-26 November, 2021, National Institute of Technology, Andhra Pradesh
- 2. Five-day faculty development programmeon Energy Integration Using AI and Bigdata Analytics", 15-19 November, 2021, P. A. College of Engineering and Technology.
- Workshop on "Research Challenges in Electrical Power and Energy", during 10-12May, 2021, Organised by the Department of EEE, Sri VenkateswaraEngineering College,Tirupati.
- Short term training program on "Recent Trends in Power 4.

- Electronics, Power System and Renewable Energy System", during 17-21 February, 2020, Organised by the Department of EE, National Institute of Technology Raipur.
- Workshop on "Artificial Intelligence", during 22-26 September, 2019, Organised by AICTE Training And Learning (ATAL) Academy conducted at NIT Raipur.
- Global Initiative of Academic Networks (GIAN) course on "Recent trends in Protection of Microgrids with high DER penetration: Issues, Challenges and Mitigation" during 12-16 February, 2018, Organised at Delhi Technological University, Delhi.
- 7. Training course on "Hands-On Protection Relay School" during 5-10 February, 2018, Organised by the Power systems division, Central power research institute (CPRI) Bangalore.
- 8. Workshop on "Power Quality challenges with Renewable Energy integration in Smart Grid" during 23-24 February, 2017, Organised at CPRI Bangalore.

Details of Journal Publications/ Conferences (National and International)

International Journals

- 1. B. K. Chaitanya, A. Yadav, "Empirical Wavelet Transform Based Differential Protection Scheme for Micro-Grid," Journal of The Institution of Engineers (India): Series B, 2023. (Scopus Indexed Journal) (Q3) (Accepted for publication).
- Mohammad Pazoki, B Krishna Chaitanya, AnamikaYadav, "A new wave-based fault detection scheme during power swing", Electric Power Systems Research(Elsevier), Volume 216, March 2023, 109077. (SCI journal) (Q1) (https://doi.org/10.1016/j.epsr.2022.109077)
- 3. M.Dhananjaya, D.Potnuru, B.K.Chaitanya, N.Patnana, J.K.Bokam, "A single-input dual-output DC-DC converter for powertrain of PEM fuel cell vehicle". Journal of New Materials for Electrochemical Systems, Vol. 25, No. 3, pp. 162-171, 2022. (SCI journal) (Q4),https://doi.org/10.14447/jnmes.v25i3.a02
- 4. B. K. Chaitanya, A. Yaday and M. Pazoki, "Reliable Islanding Detection Scheme for Distributed Generation Based on Pattern-Recognition," in IEEE Transactions on Industrial Informatics, vol. 17, no. 8, pp. 5230-5238, Aug. 2021, doi: 10.1109/TII.2020.3029675.
- 5. B. K. Chaitanya, A. Yadav and M. Pazoki, "An Advanced Signal Decomposition Technique for Islanding Detection in DG System," in IEEE Systems Journal, vol. 15, no. 3, pp. 3220-3229, Sept. 2021, doi: 10.1109/JSYST.2020.3017157.
- 6. B.K. Chaitanya, AnamikaYadav, and Mohammad Pazoki, "An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators," IEEE Systems Journal, vol. 14, no. 1, pp. 870-879, March 2020.
- 7. B.K. Chaitanya, AnamikaYadav, "An Intelligent Faulty Line Identification Scheme for Micro-grids", Iranian Journal of Science and Technology, Transactions of Electrical Engineering (Springer), Volume 44, Pages 537-549
- 8. B.K. Chaitanya, AnamikaYadav, and Mohammad Pazoki, "Wide area monitoring and protection of microgrid with DGs using modular artificial neural networks", Neural Computing & Applications (Springer) 32, 2125–2139 (2020).
- 9. B.K. Chaitanya, AnamikaYadav, and Mohammad Pazoki, "An improved differential protection scheme for micro-grid using time-frequency transform", Electrical Power & Energy Systems (Elsevier), Volume 111, Pages 132-143, ISSN 0142-0615, 2019.
- 10. B.K. Chaitanya, and AnamikaYadav, "Decision tree aided travelling wave based fault section identification and location scheme for multi-terminal transmission lines", Measurement (Elsevier), Volume 135, Pages 312-322, ISSN 0263-2241, 2019.
- 11. B.K. Chaitanya, and AnamikaYadav, "An intelligent fault detection and classification scheme for distribution lines integrated with distributed generators", Computers & Electrical Engineering (Elsevier), Volume 69, Pages 28-40, ISSN 0045-7906, 2018.
- 12. B. K. Chaitanya, A.K. Soni and AnamikaYadav, "Communication assisted fuzzy based adaptive protective relaying scheme for micro-grid", Journal of Power of Technologies 2018, 98(1), pp. 57-69.

International Conference

- T.P. Bhargav, B. K. Chaitanya and A.Yadav, "Bus-Bar fault detection and classification using Fast Stransform and Artificial Neural Networks", 1st International Conference on Power Electronics and Energy (ICPEE), KIIT University, India, 2021, pp. 1-6.
- 2. B. K. Chaitanya, AnamikaYadav, and Mohammad Pazoki, "High Impedance Fault Detection Scheme for Active Distribution Network Using Empirical Wavelet Transform and Support Vector Machine", Published in IPAPS-2021, Shiraz University, Iran.

3. B. K. Chaitanya and A.Yadav, "Hilbert–huang transform based islanding detection scheme for Distributed generation", PIICON, NIT Kurukshetra, India, 2018, pp. 1-5.

