

Name of Faculty Dr. Ram Babu Thogaru
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 14 - 02 - 2023
 E-mail rambabuthogaru_eee@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (EEE)	Distinction
PG	M.E. (EEE)	Distinction
UG	B. Tech. (EEE)	1 st class

Work Experience

Teaching	8.6 Years
Research	4.8 years
Industry	5 M [Deputy Manager-R&D]
Others	--
Area of Specialization	Design and Analysis of Solar PV-BESS fed DC Microgrid Interfaced with High Gain DC-DC Converters
Professional Memberships	IEEE Member Number: 95350882
Responsibilities held at Institution Level	--
Responsibilities held at Department Level	--
Research Guidance	--
Awards Received	--

Courses Handled at Under Graduate / Post Graduate Level.	Power Electronics, Electrical Machines- I, II & III, Power Systems- I & II Power Systems Operation & Control, Switch Gear & Protection HVDC DC Transmission, Electrical Distribution Systems, Network Theory Basic Electrical Engineering
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No. of Papers Published	National Journals – -- International Journals – 02 National Conference – 04 International Conference – 08
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Projects Carried out --

Patents --

Technology Transfer --

Invited Speaker --

- No. of Books/Chapter Published with details
1. D. Naware, Ram Babu Thogaru and Arghya Mitra, "Integration of Renewable Sources and Energy Storage Devices," in Book Title: "Planning of Hybrid Renewable Energy Systems, Electric Vehicles, and Microgrid: Modelling, Control, and Optimization", Publisher: Springer, 2021.
 2. Author of "Industrial Electronics" Text book for DEEE & DECE (Diploma)

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

1. IEEE PES global workshop on “Electric vehicle-Grid Integration: Opportunities, Challenges and Remedial Measures” organized by PES India chapters council, Pune, 22nd- 23rd Jul-2021.
2. A short-term program on “Shifting Teaching-Learning Paradigms through Innovative Pedagogy” organized by the Department of Electrical Engineering, VNIT, Nagpur, 12-16th Feb-2020.
3. A short-term program on “Power System & Control: A Modern Perspective” organized by the Department of Electrical Engineering, VNIT, Nagpur, 1-6th Jul-2019.
4. Participated in Poster Presentation on “Microgrid Voltage stability” research scholars day organized by VNIT, Nagpur, 8 - 9th Feb-2019.
5. GIAN course on “Current Trends in Power Electronics & Drives Technology” organized by Department of Electrical Engineering, VNIT, Nagpur, 11-16th Dec-2017.
6. Participated in a two-week ISTE STTP on, “Electric Power System” Conducted by IIT-Kharagpur from 12th Jun- 15th Jul-2017.
7. One-week National level FDP on, “Modern Power System Operation & Control” Under TEQIP-III, organized by EEED, MREC, Dhulapally, Hyderabad, 11-16th Jul-2016.
8. A 3-day faculty development program on, “ Global Technical teaching Methodologies” organized by EEED, GNITS, Shaikpet, Hyderabad, 28-30th Jun-2012
9. Participated in NEED one-day seminar on “Energy Saver Club” organized by EEED, CBIT, Gandipet, Hyderabad, 27th Aug-2011.
10. A two-day workshop on “Design of Embedded Power Electronics Systems” organized by EEED, SNITS, Ghatkesar, Hyderabad, 13-14th Nov-2009.

Details of Journal Publications/Conferences (National and International)

International Conference :

1. B Harichandra Prasad, Ram Babu Thogaru and Arghya Mitra, “Integration of Electric Vehicles to DC microgrid Enabling V2G and G2V”. SCES-2022 IEEE Students Conference on Engineering and Systems, MNNIT, Prayagraj, India, 1st - 3rd Jul-2022.
2. Ram Babu Thogaru and Arghya Mitra, “Mitigation of voltage sag and loadability of solar PV based DC microgrid”. PARC-2020 IEEE International conference on power electronics & IoT applications in renewable energy and its control, GLA University, Mathura, India, 28th-29th Feb-2020.
3. Srikanth P, Ram Babu Thogaru and Arghya Mitra, “PSCAD / EMTDC resiliency analysis of grid-connected solar PV system with battery support”. IEEE International Conference on Smart Technologies for Power, Energy, and Control, VNIT, Nagpur, India 25th-26th Sept-2020.
4. Ram Babu Thogaru and Arghya Mitra, “Voltage stability and loadability improvement of DC microgrid connected with static and dynamic loads” IEEE fifth International Conference for Convergence Technology, Pune (MS), India, and 29th-30th March 2019.
5. D Srujan, Ram Babu Thogaru and Arghya Mitra, “Energy management in grid assisted BESS integrated solar PV based smart charging station”. IECON-2019 IEEE 45th annual conference of the industrial electronics society, Lisbon, Portugal, 14th-17th Oct-2019.
6. Ram Babu Thogaru, “Power Generation and Utilization in Telangana”. National conference on Role of Engineers in the Development of New State of Telangana, Under TEQIP-III, organized by EEED, CBIT, Gandipet, Hyderabad, 23-24th, Jan-2015.

7. Ram Babu Thogaru, "Hybrid Solar-Wind Power Generation for Remote Areas". National conference on Role of Engineers in the Development of New State of Telangana, Under TEQIP-III, organized by EEED, CBIT, Gandipet, Hyderabad, 23-24th, Jan-2015.
8. Ram Babu Thogaru, "Energy Audit of an Education Institution". National Conference on Energy, Power, and Intelligent Control Systems, IEEE sponsored, organized by EEED, Galgotias College of Engineering and Technology, Greater Noida, Delhi, 28-29th, Mar-2014
9. Ram Babu Thogaru and P. Venkata Prasad, " Optimal Placement and Sizing of DG based on Power Stability Index in Radial Distribution System" IEEE International Conference on Smart Electric Grid, KL University, Vijayawada, 19-10th, Sept-2014.
10. Ram Babu Thogaru, "Voltage Stability Index based Optimal Placement of Distributed Generation for Improving Voltage Profile in Radial Distribution Systems". National Conference on Recent Trends in Power Systems & Drive, IEEE sponsored, Under TEQIP-III, organized by EEED, CBIT, Gandipet, Hyderabad, 24-25th, Jan-2013.
11. Ram Babu Thogaru and P. Venkata Prasad, "Optimal Conductor Selection for Improving the Maximum Loading of Distribution Systems" International Conference on Advancement in Engineering and Management, RITS, Hyderabad, 28-29th Feb-2012.
12. Ram Babu Thogaru, "Constant Switching Frequency Torque & Flux Controller for Direct Torque Control of Induction Motor". International Conference on System Dynamics and Control, IEEE sponsored, Manipal Institute of Technology, Manipal, 19-20th, Aug- 2010.

National /International Journal :

13. Thogaru, R.B., Mitra, A. Regulation of DC microgrid voltage using optimized droop index control-based high gain converters in the presence of static and dynamic loads. Electr Eng (2021). <http://doi.org/10.1007/s00202-021-01403-5>.
14. Ram Babu Thogaru, Dipanshu Naware, Arghya Mitra, Jeetendra Chaudhary, "Resiliency- Driven Approach of DC Microgrid Voltage Regulation Based on Droop Index Control for High Step-Up DC-DC Converter", International Transactions on Electrical Energy Systems, vol.2022, Article ID 3676438, 20 pages, 2022. <http://doi.org/10.1155/2022/3676438>.

