

Name: Dr. Gandhi Ramarao

Employee ID: A5EEEE00T71

Designation: Assistant Professor

Department: EEE

Date of Birth: 01-06-1991

Father Name: Bangari Naidu

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Reservation Category if Any: BC- 'D'

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Date of Joining in the Institution: 22-07-2019

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph. D. (EE)	NIT Raipur	-	March 2020
M. Tech. (EE)	VNIT Nagpur	First class with distinction	July 2014
B. Tech. (EEE)	TPIST Bobbili	First class with distinction	May 2012

Total Years of Experience (Teaching/Industry): 3 Years

Period		Organization/Institution	Designation
July 2019	Till Date	AITAM, Tekkali	Asst. Prof.
Aug 2016	July 2019	NIT Raipur	Research Scholar
July 2015	July 2016	AITAM, Tekkali	Asst. Prof.

Areas of Interest:

1. Power Systems/ High Voltage Engineering
2. Network Analysis and Synthesis
3. Network Theory
4. Optimization methods for engineering applications.

Guidance of Academic Projects:

- i) Doctoral Projects : Nil
- ii) Masters Projects : Nil
- iii) Bachelor Projects : 5 (completed)

Honors and awards Received:

- MHRD Scholarship for doing Ph.D. from 2016 to 2019 in NIT Raipur.
- MHRD Scholarship for doing M. Tech. from 2012 to 2014 in VNIT Nagpur.
- Bagged 1st rank in SSS in school level in 2006.
- Qualified GATE in 2012
- Actively participated in “**Vihang2k13**”, a PG Sports meet conducted in VNIT Nagpur and achieved gold medal in javelin through.

Details of Publications:

Published Papers →21
(International Journal Publications→10
International Conferences Papers →10
National Conferences Papers →01)

Journals

1. **G. Ramarao** and K. Chandrasekaran, “Lightning Channel-Base-Current Estimation Using Engineering Return-Stroke Models from Measured Magnetic Field Based on Deconvolution Method,” *IEEE Transactions on Electromagnetic Compatibility*, pp. 1-9, July 2019, DOI: 10.1109/TEMC.2019.2922434.
2. **G. Ramarao** and K. Chandrasekaran, “Evaluation of an Approximate Channel-Base-Current and Its Analytical Function Parameters Based on the Measured Lightning Magnetic Field,” *IEEE Transactions on Electromagnetic Compatibility*, pp. 1-11, Oct. 2018, DOI: 10.1109/TEMC.2018.2879541.
3. **G. Ramarao** and K. Chandrasekaran , “Use of PSO to determine lightning channel-base-current function parameters for standard severe negative first and subsequent return stroke approximation” *IET Science, Measurement & Technology*, vol. 13, no. 1, pp. 42-52, Jan. 2019.
4. **G. Ramarao** and K. Chandrasekaran , “Evaluating Lightning Channel-Base-Current Function Parameters for Identifying Interdependence of Wavefront and Tail by PSO Method” *IEEE Transactions on Electromagnetic Compatibility*, vol. 61, no. 1, pp.183-190, Feb. 2019.

5. **G. Ramarao** and K. Chandrasekaran, "Representation of Severe Negative Subsequent Return Stroke by Optimization based Channel-Base-Current Function Parameters," *Materials Today: Proceedings-Elsevier*, vol. 11, no. P3, pp. 1079-1087, 2019.
6. **G. Ramarao** and K. Chandrasekaran, "Calculation of Multistage Impulse Circuit and Its Analytical Function Parameters" *International Journal of Pure and Applied Mathematics*, vol. 114, no. 12, pp. 538-592, 2017.
7. **G. Ramarao** and K. Chandrasekaran, "Generation of Impulse Voltage Waveforms for Testing of UHV Transformer: A Study," *Materials Today: Proceedings-Elsevier*, vol. 24, no. P3, pp. 1990-1998, 2020.
8. **G. Ramarao** et al., "Analysis of a Transient Lightning Current Flowing Through the Horizontal Grounding Conductor," *Lecture Notes in Electrical Engineering*, vol. 702, pp. 491-502, 2021.
9. **G. Ramarao** et al., "Implementation of Particle Swarm Optimisation to Evaluate Single Stage Impulse Generator Circuit Parameters," *Lecture Notes in Electrical Engineering*, vol. 702, pp. 537-543, 2021.
10. **G. Ramarao**, T. Jaganmohanrao, and B. Ravikumar, "Active voltage quality regulator for power quality improvement with parasitic boost circuit," *International Journal of Scientific Development and Research*, vol. 1, no. 7, pp. 238-246, July 2016.

International Conferences:

1. **G. Ramarao**, N. Jayaram, P. Ram Mohan Naidu, A. Vamsi, M. Krishna Prasad, and D. Jagadeesh, "Implementation of Particle Swarm Optimisation to Evaluate Single Stage Impulse Generator Circuit Parameters," 1st International Conference on Intelligent Computing in Control and Communication (ICCC 2020), held in Aditya Institute of Technology and Management Tekkali, 7-8 Aug. 2020.
2. **G. Ramarao**, Ch. Prasad, Ch. Upendhra, S. Prasanthi, G. Manikanta, "Analysis of a Transient Lightning Current Flowing Through the Horizontal Grounding Conductor," 1st International Conference on Intelligent Computing in Control and Communication (ICCC 2020), held at Aditya Institute of Technology and Management Tekkali, 7-8 Aug. 2020.
3. **G. Ramarao** and K. Chandrasekaran, "Generation of Impulse Voltage Waveforms for Testing of UHV Transformer: A Study," International Multi-Conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2K19), Paper ID-121, Kottayam, 26-27 Apr. 2019.
4. **G. Ramarao** and K. Chandrasekaran, "MTLL Model Based Lightning Channel-Base-Current Identification from Measured Magnetic Field," International Conference on Recent Trends in Science and Management (ICRTSM-2018), Paper ID-304, Chennai, 2018.
5. **G. Ramarao** and K. Chandrasekaran, "Representation of Severe Negative Subsequent Return Stroke by Optimization based Channel-Base-Current Function Parameters", International Multi-Conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2K18), Paper ID-109, Kottayam, 2018.

6. **G. Ramarao** and K. Chandrasekaran, “Application of DE to Identify Lightning Channel Base –Current Function Parameters for Approximating Standard Negative First Stroke”, International Conference on Innovations in Science, Engineering, Technology and Management (ICISSETM-2018), Paper ID-E-18, Salem, 2018.
7. **G. Ramarao** and K. Chandrasekaran, “Calculation of Multistage Impulse Circuit and Its Analytical Function Parameters” in Proceedings of International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2017) & Power, Circuit and Information Technologies (ICPCIT-2017), Paper ID-EE 313, Chittore, 2017.
8. **G. Ramarao** and K. Chandrasekaran, “Evaluation of Circuit and Its Analytical Function Parameters for Lightning and Switching Impulse” in Proceedings of IEEE- International Conference on Innovation in Electrical, Electronics, Instrumentation and Media Technology (ICIEEIMT’ 17), Paper ID-203, Coimbatore, 2017.
9. **G. Ramarao**, I. Ramesh, Dr. D. Vijayakumar ‘Design and hardware implementation of multifunctional relay for equipment protection’ AEAPS2017, Aitam, April 2017.
10. **G. Ramarao**, D. Mudadla, and N. Sandeep, “Novel asymmetrical multilevel inverter topology with reduced number of switches for photovoltaic applications,” International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC), Chennai, India, April, 2015.
11. **G. Ramarao**, S. K. Telagamsetti, and V. S. Kale, “Design of microcontroller based multifunctional relay for automated protective system,” Students Conference on Engineering and Systems (SCES), Allahabad, India, May, 2014.

Details of Conferences / Workshops / Refresher Courses Attended:

S. No.	Dates	Name of The Programme	Host Institution
1	January 9-11, 2014	A three-day workshop on Electrical Power Quality and Related Issues	VNIT Nagpur
2	February 6-8, 2014	A three-day training program on Power Electronics in Power System	VNIT Nagpur
3	March 6-8, 2014	A three-day faculty development program on Condition Monitoring of Transformers	VNIT Nagpur
4	March 27-28, 2014	A two-day workshop on Innovative project competition	VNIT Nagpur
5	December 5-9, 2017	A one-week short-term training program on Technical Writing in Science Framework to Empower Quality Research	NIT Raipur
6	December 9-13, 2017	A one-week workshop on Hands on Training on Reading and writing a Research Paper	NIT Raipur
7	Oct 31 st – Nov. 4 th , 2019	STTP Programme on Recent Trends in Power Systems and High Voltage Engineering	NIT Raipur
8	15 th -19 th June 2020	Challenges and Research Opportunities in Microgrid Operation ,Control and Protection	AITAM, Tekkali

9	Jan. – Apr. 2020	NBA Accreditation and Teaching – Learning in Engineering (NATE)	NPTEL
10	8 th – 12 th June 2020	A five day online FDP on Recent Innovations and Technologies in Electric Vehicles	GATES Institute of Technology
11	18 th – 22 nd May 2020	One week online FDP on Recent Trends in Electrical Engineering (RTEE-2020)	PCE Nagpur
12	4 th – 6 th May 2020	Three day Online Basic Optimization Technology Workshop	RSRI Tamil Nadu
13	18 th – 22 nd May 2020	Five day national level Online FDP on Cutting-Edge Technologies for Electrical Engineering	ALIET Vijayawada
14	9 th – 13 th June 2020	One week online FDP on Design of Solar PV system using PVSYST Software	VCE Warangal
15	16 th – 20 th June 2020	Five day online FDP on Recent Challenges and Emerging Techniques on Micro grid	GNITS Hyderabad
16	11 th – 16 th May 2020	International Faculty Development Programme on "Research Challenges and Innovations in Renewable Energy Systems"	AVIT Tamil Nadu
17	16 th – 20 th November 2020	AICTE Training And Learning (ATAL) Academy Online FDP on "Electric Vehicles"	AITAM Tekkali
18	27 th – 29 th July 2020	Three day FDP on Research Opportunities on Power Systems	SVEC Suryapet
19	13 th – 17 th July 2020	One Week International FDP on “Renewable Energy Application in Smart Grid, Micro Grid and EVs (REASGMGEV-2020)”	GMRIT Rajam
20	17 th – 20 th June 2020	Four day eFDP on “Role of Artificial Intelligence in Future Microgrid Control”	SIT Sambalpur
21	18 th – 30 th January 2021	AICTE Sponsored two week online FDP on “Electric Vehicle Components, Technologies, Challenges and Future Development” Series B	BVRIT Hyderabad
22	7 th – 12 th December 2020	AICTE Sponsored STTP on “Research Paper Writing & Publication”	GIT Bhubaneswar
23	12 th – 19 th December 2020	AICTE Sponsored one week STTP (phase-II) on “Smart microgrid & Its Future Trends”	LIET Vizianagaram
24	14 th – 19 th December 2020	AICTE Sponsored one week online STTP on “Application of AI and IoT to Power Systems including Smart grid – Phase II”	SWEC Hyderabad
25	7 th – 19 th December 2020	AICTE Sponsored two week online FDP on “Electric Vehicle Components, Technologies, Challenges and Future Development” Series A	BVRIT Hyderabad
26	14 th – 19 th December 2020	AICTE Sponsored one week STTP (phase-III) on “Smart microgrid & Its Future Trends”	LIET Vizianagaram

Details of Conferences / Workshops Organized:

1. Conducted online Faculty Development Program on “Challenges and Research Opportunities in Microgrid Operation, Control and Protection,” during 15th to 19th June 2020 organized by Department of Electrical and Electronics Engineering, Aditya institute of Technology and Management Tekkali, as Co-Convener.
2. Conducted a one-week AICTE Training and Learning (ATAL) Academy Sponsored Online Faculty Development Program on “Electric Vehicles” during 16th to 20th November 2020 organized by Department of Electrical and Electronics Engineering, Aditya institute of Technology and Management Tekkali, as Co-Coordinator.
3. Conducted a one-week AICTE Sponsored Short Term Training Programme (STTP) on “Application of Advanced Techniques to Control Microgrid (AATCM-2021)” during 6th to 11th April 2021 organized by Department of Electrical and Electronics Engineering, Aditya institute of Technology and Management Tekkali, as Co-Coordinator.

Other Achievements:

- Delivered an expert talk on “Institute funded STTP Program on Recent Trends in Power Systems and High Voltage Engineering” organized by the Department of Electrical Engineering, NIT Raipur during 31/10/2019-04/11/2019.
- Acted as resource person for a one-week AICTE Sponsored Short Term Training Programme (STTP) on “Application of Advanced Techniques to Control Microgrid (AATCM-2021)” during 6th to 11th April 2021 organized by Department of Electrical and Electronics Engineering, Aditya institute of Technology and Management Tekkali.

G. Ramarao
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