

EEE'S QUARTERLY

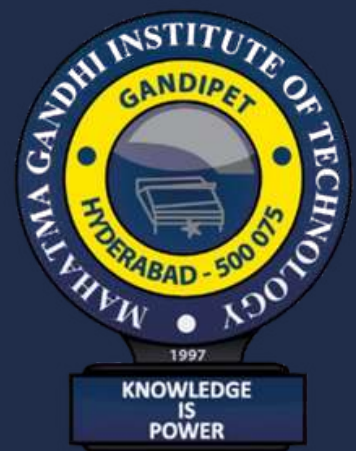
NEWS LETTER

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY



ABOUT US

MGIT envisions, inspires and motivates its students to imbibe knowledge with which they can excel and serve the nation with great elan. To nurture students into disciplined young citizens of irreproachable character, coupled with hands – on training and to make them readily employable by fostering social, cultural and environmental consciousness.



TRAINING & PLACEMENT ACTIVITIES

Placements and Training Activities

(i) Details of Placements:

S.No	Name of the Student	Enrollment no.	Name of the Employer	Appointment letter reference
1	A SAHITHI REDDY	18261A0201	Aliens Developers	MGIT/Aliens Developers/21-22/1
2	SNEHA BACHALAKURA	18261A0202	KPIT	MGIT/KPIT/21-22/1
3	PRIYANKA BAMANDLAPELLI	18261A0203	WIPRO	MGIT/WIPRO/21-22/2
4	BEERAKAYALA ASHRITH	18261A0205	EDVENSWA EPC	MGIT/EDVENSWA EPC/21-22/1
5	DHULIPUDI VARDHINI	18261A0208	WIPRO	MGIT/WIPRO/21-22/4
6	MANICHANDRA DOMALA	18261A0210	ACCENTURE	MGIT/ACCENTURE/21-22/1
7	GULBARGA ANIRUDH RAO	18261A0211	Mindtree	MGIT/Mindtree/21-22/1
8	ANJURI CHANDRA	18261A0249	ACCEL UAV	MGIT/ACCEL UAV/21-22/1
9	DEEPAK GAINI	18261A0212	CAPGEMINI	MGIT/CAPGEMINI/21-22/3
10	GAJULA SHIVANI	18261A0213	WIPRO	MGIT/WIPRO/21-22/7
11	GONDHI SPOORTHY	18261A0214	WIPRO	MGIT/WIPRO/21-22/8
12	GUNDA LAXMI PRASANNA	18261A0215	WIPRO	MGIT/WIPRO/21-22/9
13	KOLUKURI CHANDANA	18261A0217	HEXAWARE	MGIT/HEXAWARE/21-22/1
14	KANDUKURI VISHNURAJ	18261A0218	WIPRO	MGIT/WIPRO/21-22/10
15	M SAI MOHAN REDDY	18261A0271	ACCEL UAV	MGIT/ACCEL UAV/21-22/2

TRAINING & PLACEMENT ACTIVITIES

Placements and Training Activities

(i) Details of Placements:

16	KARRI RESHMA	18261A0219	CAPGEMINI	MGIT/CAPGEMINI /21-22/4
17	KASOJU SANDHYARANI	18261A0220	WIPRO	MGIT/WIPRO/21- 22/11
18	KOLA CHANDRA LEKHA	18261A0221	WIPRO	MGIT/WIPRO/21- 22/12
19	MANDALA SHILPA SREE	18261A0227	WIPRO	MGIT/WIPRO/21- 22/13
20	SUMA SRI SWETHA	18261A0228	HCL TECHNOLOGIES	MGIT/HCL TECHNOLOGIES/
21	KIRAN KUMAR MARPALLY	18261A0229	THUNDERSOFT	MGIT/THUNDERS OFT/21-22/1
22	JAYA CHANDRA NAGABANDI	18261A0232	CAPGEMINI	MGIT/CAPGEMINI /21-22/5
23	SHRESHIKA REDDY PAGUNTA	18261A0234	CAPGEMINI	MGIT/CAPGEMINI /21-22/6
24	P NAVEEN KUMART VARMA	18261A0235	MINDTREE	MGIT/Mindtree/2 1-22/3
25	PATLOLLA VAISHNAVI	18261A0237	CAPGEMINI	MGIT/CAPGEMINI /21-22/16
26	PRASHANTHI PIRIDI	18261A0238	CAPGEMINI	MGIT/CAPGEMINI /21-22/17
27	RATHLAVATH LAVANYA	18261A0240	WIPRO	MGIT/WIPRO/21- 22/15
28	RUDRAVENI LAVANYA	18261A0241	JSW	MGIT/JSWS/21- 22/2
29	SHAIK FAYAZ	18261A0243	HCL TECHNOLOGIES	MGIT/HCL TECHNOLOGIES/
30	VOLLALA AKHILA	18261A0245	L&T	MGIT/L&T/21-22/1
31	ADEPU AKANKSHA	18261A0248	COGNIZANT	MGIT/COGNIZAN T/21-22/5
32	ANURAG APPALASHETTY	18261A0250	CAPGEMINI	MGIT/CAPGEMINI /21-22/7
33	VAISHNAVI BODDU	18261A0253	JSW	MGIT/JSWS/21- 22/3
34	LIKHITHA CHILAKA	18261A0255	SYNORIQ	MGIT/SYNORIQ/2 1-22/1

TRAINING & PLACEMENT ACTIVITIES

Placements and Training Activities

(i) Details of Placements:

34	LIKHITHA CHILAKA	18261A0255	SYNORIQ	MGIT/SYNORIQ/2 1-22/1
35	YASHASWI KARTHIK REDDY	18261A0258	TCS	MGIT/TCS/21-22/2
36	DIKSHA.R	18261A0260	HYUNDAI MOBIS	MGIT/HYUNDAI MOBIS/21-22/1
37	KAMBAM LAYAVARDHAN	18261A0267	WIPRO	MGIT/WIPRO/21- 22/25
38	KUMMARI THREYINI	18261A0270	CAPGEMINI	MGIT/CAPGEMINI /21-22/9
39	SATHWIKHA MANNEM	18261A0272	CAPGEMINI	MGIT/CAPGEMINI /21-22/10
40	RAVI KIRAN MUTHE	18261A0274	COGNIZANT	MGIT/COGNIZAN T/21-22/8
41	PATHANABOINA KEERTHI	18261A0278	WIPRO	MGIT/WIPRO/21- 22/30
42	POOJA YADLAPALLI	18261A0280	COGNIZANT	MGIT/COGNIZAN T/21-22/10
43	S KAMAL BABU	18261A0283	COGNIZANT	MGIT/COGNIZAN T/21-22/11
44	TARUN RAJ SADULA	18261A0285	CAPGEMINI	MGIT/CAPGEMINI /21-22/11
45	MANEESHA SHAIK	18261A0287	THUNDERSOFT	MGIT/THUNDERS OFT/21-22/2
46	SUGGULA ANISHA	18261A0290	CAPGEMINI	MGIT/CAPGEMINI /21-22/12
47	V YASHWANT KUMAR	18261A0292	CAPGEMINI	MGIT/CAPGEMINI /21-22/13
48	YASHWANTH PASALADI	18261A0294	Mindtree	MGIT/Mindtree/2 1-22/7
49	BHUMA PRAJITH	19265A0201	WIPRO	MGIT/WIPRO/21- 22/32
50	BUPPERGUDEM SOWMYA	19265A0202	TOSHIBA MITSUBISHI	MGIT/TOSHIBA MITSUBISHI/21-
51	SOWMYA DEVA	19265A0203	JSW	MGIT/JSWS/21- 22/5

DEPARTMENTAL ACTIVITIES

1. GUEST LECTURE ON MODERN POWER DISTRIBUTION SYSTEM AND BEST PRACTICES

On 21 December 2022, the Department of Electrical and Electronics Engineering organized a highly informative Guest Lecture on “Modern Power Distribution Systems and Best Practices.” The session was delivered by Dr. T. Sreedhar, Assistant Divisional Engineer at TSSPDCL, Hyderabad, who brought valuable industry-based insights into the evolving landscape of power distribution networks. He elaborated on modern distribution technologies, grid efficiency enhancement mechanisms, safety protocols, and the integration of smart infrastructure in contemporary electrical systems. The lecture also highlighted practical challenges encountered in field operations and emphasized the importance of adopting best practices for reliability and sustainability. The session was conducted in Room E-701 and was exclusively attended by III-year EEE students, who gained a deeper understanding of real-world utility operations and current engineering advancements.

2. GUEST LECTURE ON EEE WITH COMPUTATIONAL TOOLS AND VLSI-THE ULTIMATE CHOICE OF 21ST CENTURY

On 28 October 2022, the Department of EEE conducted an engaging Guest Lecture titled “EEE with Computational Tools and VLSI – The Ultimate Choice of the 21st Century.” The resource person for the event was Dr. B. Koti Reddy, Scientific Officer from the Department of Atomic Energy, Government of India, Ashwapuram. During the session, Dr. Reddy provided an in-depth overview of the growing significance of computational tools in electrical engineering, the increasing demand for professionals skilled in VLSI design, and the transformative impact these technologies are creating in modern industries. He discussed advancements in chip design, automation tools, simulation methodologies, and interdisciplinary applications that position EEE graduates for prominent career opportunities in the technology sector. The lecture was held in Room E-701 and catered to the III-year EEE students, offering them valuable exposure to cutting-edge trends shaping the future of engineering and electronics.

Faculty Achievements:

DR. P. RAM KISHORE KUMAR REDDY

Dr. P. Ram Kishore Kumar Reddy, Department of EEE, made a noteworthy academic contribution by presenting his research paper titled “Formation of Autonomous Campus Microgrid with E-Tap Simulations and Validation.” His work focused on the design, development, and validation of an autonomous microgrid framework using advanced E-Tap simulation tools, addressing the growing need for sustainable, reliable, and self-sufficient campus-level power systems. He presented this work at the International Conference on Smart Generation, Computing, Communication and Networking, organized by the IEEE Bangalore Section from 23rd to 25th December 2022. The event served as a distinguished platform for exchanging innovative ideas in the fields of smart energy systems and intelligent grid technologies. His participation strengthened the department’s research footprint in modern power system engineering.

MR. S. ABHISHEK REDDY

Mr. S. Abhishek Reddy, Department of EEE, also contributed to the international research forum by presenting the paper titled “Formation of Autonomous Campus Microgrid with E-Tap Simulations and Validation.” His work emphasized the importance of integrating modern simulation tools with practical design considerations to build resilient autonomous microgrid models suitable for institutional environments. He presented his findings at the International Conference on Smart Generation, Computing, Communication and Networking (SMART GENCON) hosted by the IEEE Bangalore Section from 23rd to 25th December 2022. His participation highlighted the department’s collaborative research efforts in sustainable power distribution and intelligent energy management systems.

MR. S. ABHISHEK REDDY

In a separate contribution at the same conference, Mr. S. Abhishek Reddy presented another significant research work titled “Experimental Verification and Deep Learning Classification of A-V and V-A Methods for Resistance Measurement.” This study explored the application of deep learning techniques for classifying resistance measurement methods, focusing on enhancing accuracy, efficiency, and automation in electrical measurement systems. By integrating experimental validation with machine learning methodologies, the research offers new insights into modernizing conventional measurement approaches. This work was also presented at SMART GENCON, organized by the IEEE Bangalore Section between 23rd and 25th December 2022, underscoring his active engagement in advancing research at the intersection of electrical engineering and artificial intelligence.

Faculty Publications & Patents

MR. CH. VINAY KUMAR

Mr. Ch. Vinay Kumar, Department of EEE, contributed to the academic community through his publication titled “Analysis of Power Systems for Smart Grid Using Automation, Communication and Information Technologies.” This paper emphasizes the role of intelligent automation, digital communication frameworks, and modern information technologies in transforming conventional power systems into smart, adaptive, and highly efficient grids. His work highlights the need for technologically integrated energy networks that support reliability, real-time monitoring, and sustainability. The paper was published in the Journal of Northeastern University, Volume 25, Issue 04, December 2022, further adding to his growing portfolio of research in modern power systems and smart grid innovation.

DR. P. RAM KISHORE KUMAR REDDY

Dr. P. Ram Kishore Kumar Reddy, Department of EEE, strengthened the department’s research profile with his publication titled “An Efficient Hybrid Electrical Vehicle Propulsion Using Hybrid Energy Sources.” This study focuses on optimizing propulsion mechanisms in hybrid electric vehicles through the integration of multiple energy sources, thereby enhancing energy efficiency, performance, and environmental sustainability. The research provides valuable insights into advanced EV technology and contributes to the evolving body of knowledge in green transportation systems. The paper was published in NeuroQuantology, Volume 20, Issue 15, on pages 1274–1282, in November 2022, marking a significant contribution to the field of sustainable mobility.

DR. P. LAKSHMI SUPRIYA

Dr. P. Lakshmi Supriya, Department of EEE, also contributed to the domain of electric vehicle research with her publication titled “An Efficient Hybrid Electrical Vehicle Propulsion Using Hybrid Energy Sources.” Her work mirrors the focus on hybrid propulsion systems that utilize multiple energy inputs to enhance efficiency, reduce emissions, and maintain optimal vehicle performance. The publication, appearing in NeuroQuantology, Volume 20, Issue 15, pages 1274–1282, November 2022, reinforces her active involvement in research addressing modern challenges in the electric mobility sector and sustainable energy systems.

Faculty Publications & Patents

MR. CH. VINAY KUMAR

In another significant contribution, Mr. Ch. Vinay Kumar published a research paper titled “Optimized Evaluation of Brushless Motor Drive System Using Adaptive Neuro-Fuzzy, PSO & Inference of Genetic Algorithm.” This work investigates the application of intelligent optimization techniques—namely Adaptive Neuro-Fuzzy logic, Particle Swarm Optimization (PSO), and Genetic Algorithm inference—to improve the performance, speed regulation, and overall efficiency of Brushless DC (BLDC) motor drives. The study advances the understanding of modern control strategies in high-performance electric drives. The paper was published in the Journal of Northeastern University, Volume 25, Issue 04, November 2022, contributing to contemporary research in intelligent motor control systems.

MR. CH. VINAY KUMAR

Further extending his research contributions, Mr. Ch. Vinay Kumar published another impactful paper titled “Design and Development of Remora Optimization-Based Controller for Speed Management in Three-Phase Brushless DC Motor.” This study introduces a novel optimization-driven control approach inspired by remora fish behavior, aimed at achieving precise speed regulation and improved dynamic response in BLDC motor systems. The paper presents a unique blend of bio-inspired optimization and electrical engineering, offering innovative solutions relevant to robotics, automation, and electric vehicle applications. This work was published in NeuroQuantology, Volume 20, Issue 16, pages 1901–1923, in October 2022, further highlighting his commitment to advanced research in intelligent control technologies.

STUDENT ACHIEVEMENTS

INDUSTRIAL VISIT

The Department of EEE organized an industrial visit on 09-12-2022 for III-year EEE students to the Heavy Water Plant, Manuguru, with the objective of enhancing their practical understanding of large-scale industrial electrical systems and power management technologies. During the visit, students observed the plant's complex electrical infrastructure, including high-capacity transformers, switchgear arrangements, protective relay coordination, and automated control panels that ensure uninterrupted operation of the heavy water production process. They were introduced to the plant's integrated SCADA and DCS frameworks, which facilitate real-time monitoring, fault detection, and process optimization across various stages of production. In addition, they learned about the role of advanced electrical drives, motor control centers (MCCs), and energy-intensive electro-mechanical units deployed to maintain precise operating conditions required for nuclear-grade heavy water manufacturing. Engineers at the facility also briefed the students on stringent industrial safety practices, grounding and earthing systems, load management strategies, and the importance of power quality in maintaining continuous and safe plant operations. Overall, the visit provided students with valuable exposure by bridging theoretical concepts of power systems, electrical machines, industrial automation, and control engineering with real-world large-scale industrial applications.