



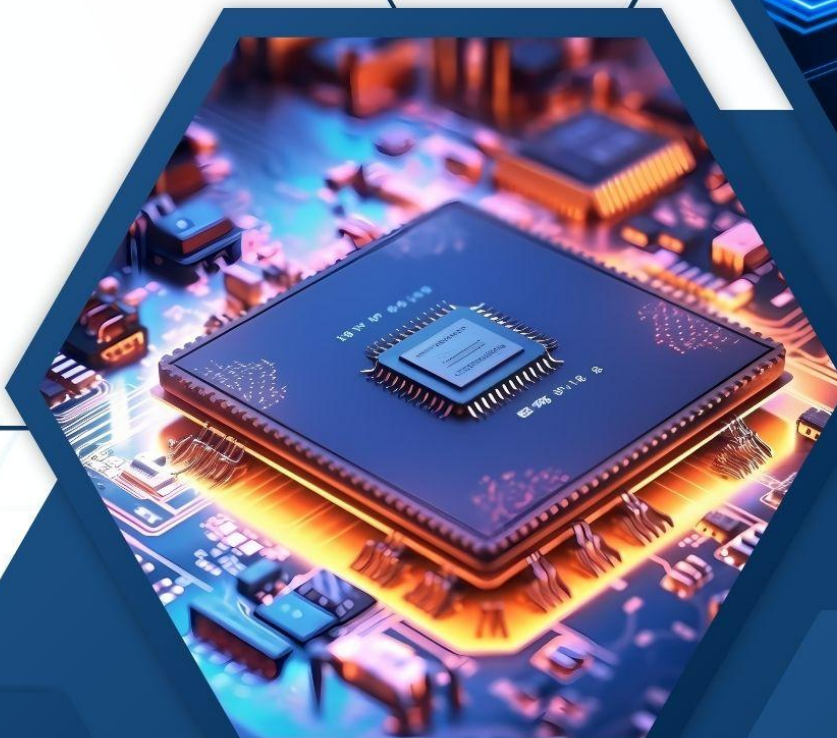
DEPARTMENT OF EECE

# NEWSLETTER

## IETE & IEEE

Professional Societies

DEC 2023 - APR 2024



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## About GITAM

The Gandhi Institute of Technology and Management (GITAM) was established in 1980 by a group of eminent intellectuals and industrialists, led by Dr. M. V. V. S. Murthi, former Member of Parliament, and popular philanthropist. Their goal, to bring to life Mahatma Gandhi's vision of an institution for higher education that transcends all barriers. GITAM is ranked as a Category-‘I’ University by the Ministry of Human Resource Development, Govt. of India. It’s also accredited by the NAAC with an ‘A++’ grade[24] and is ranked 95th in the University category in NIRF Ranking 202 of MHRD. Gandhi Institute of Technology and Management (GITAM located at Visakhapatnam, Hyderabad and Bengaluru.

### Vision

To excel in Electrical, Electronics and Communication Technologies cultivating innovation with socio-ethical commitment

### Mission

Empower the students with knowledge to face real-world challenges for holistic development.

Conduct multidisciplinary research that makes an impact on society, addressing key challenges through innovative solutions.

Foster a culture emphasizing empathy, respect, commitment upholding the ethical standards.

## About EECE Department

### Overview

A 4-year B.Tech. Electronics and Communication Engineering programme seeks to produce skilled electronics and communication professionals with a strong foundation in the fundamentals of Electronics and Communication Engineering who can engineer large, relevant, and robust electronics & communication systems.

Our B.Tech. Electronics and Communication Engineering programme prepares the students for either a professional career or advanced disciplines. The curriculum is designed to deliver comprehensive knowledge and teachings on electronics and communication engineering to ensure students develop a complete understanding of the subject. A degree in this programme will cover the following topics:

- Analog & Digital Communication
- Digital Logic & Circuits
- Coding & Information Theory
- Wireless Networking
- Signal Processing
- Electronics Architecture & Protocols

Additionally, the programme will also educate the students on the general principles of all the disciplines of engineering. The programme will also instill teamwork, leadership, and communication skills in the student with professional, ethical, and human values to be responsible citizens of society.

## Career Options for B.Tech. Electronics and Communication Engineering

Students who enroll in the B.Tech. Electronics and Communication Engineering programme will develop the necessary skills to become successful professionals and experts in the field. The wide range of career opportunities include:

- Telecom Engineer
- R&D Software Engineer
- Software Analyst
- Electronic Design Engineer
- Desktop Support Engineer
- Technical Director
- Network Planning Engineer

To provide high-quality education in Electrical & The department of EECE is a constituent department in GITAM Institute of Technology, GITAM (Deemed to be University). The department has two active professional societies dedicated to the holistic development of students namely IETE and IEEE.

### About IETE:

IETE Student Chapter – GITAM School of Technology

The Institution of Electronics and Telecommunication Engineers (IETE) is India's leading professional society dedicated to advancing Science and Technology in Electronics, Telecommunication, and IT. Established in 1953, IETE serves over 1,25,000 members across 64 centers in India and abroad, providing leadership in scientific and technical fields.

Recognizing the need for innovation, the IETE Student Chapter at GITAM School of Technology was established in 2008-2009 under the EECE Department. It aims to promote knowledge exchange and professional growth in Electronics, Telecommunication, Computer Science, and Information Technology. The chapter fosters young minds by keeping pace with evolving global trends in technology.

### About IEEE:

IEEE GITAM: Inspiring Innovation & Growth  
The Institute of Electrical and Electronics Engineers (IEEE) is the world's largest technical professional organization, dedicated to advancing innovation and technological excellence for the benefit of humanity. With over 420,000 members in 160+ countries, IEEE fosters scientific and technological progress through highly cited publications, global conferences, industry standards, and educational initiatives. It serves professionals in electrical, electronics, computing, and related fields, shaping the future of technology and engineering. IEEE operates through 334 Sections, 2,100+ Chapters, and 3,000+ Student Branches worldwide, with specialized societies.

At GITAM (Deemed to be University), the IEEE Student Branch actively engages students in technical research, professional development, and cutting-edge conferences, offering platforms like APS, SPS, RAS, CS, PES, and WIE AG Group to enhance knowledge and skills. Committed to technological growth, leadership, and integrity, IEEE and IEEE GITAM work together to nurture talent and drive advancements for a better future.

# IETE STUDENT CHAPTER

**IETE STUDENT CHAPTER**  
**DEPARTMENT OF ELECTRICAL ELECTRONICS AND**  
**COMMUNICATION ENGINEERING**  
**GITAM SCHOOL OF TECHNOLOGY**  
**GITAM Deemed to be University, VISAKHAPATNAM-530045**

<b>IETE STUDENT CHAPTER Committee List</b>		
<b>Name of the Faculty</b>		<b>Position</b>
Dr. P. Raju		Faculty Advisory
Dr. NVSV Vijay Kumar		Faculty Advisory
Dr. S. Sarada Rani		Faculty Advisory
<b>REG NO.</b>	<b>NAME</b>	<b>POSITION</b>
<b>IETE Excom Committee</b>		
VU21EECE0100065	Mohammad Sayeem	President
VU21EECE0100034	Koneti Chandu	Vice President
VU21EECE0100288	B Pranathi	Secretary
VU21EECE0100175	Y.Charishma	Joint Secretary
VU21EECE0100317	B Rajesh	Treasurer
VU21EECE0100017	N Gowri Shankar	Joint Treasurer
VU21EECE0100049	A Madhu Prasanth	Program CoOrdinator
<b>IETE Advisory Committee</b>		
122010404024	Krittika Maity	President
122010405057	Pawan Praneeth	Vice President
122010401003	Keerthika Chowdary	Joint Secretary
122010407002	Gottipati Varshini	President
122010402027	Kowshil Kumar	Treasurer
122010404028	K Ayyappa	Joint Treasurer
122010404018	M.Sai Shruti	Program CoOrdinator



## IETE EVENTS

### WALKATHON-AWARENESS ON CYBER CRIME

In an endeavor to combat the escalating threat of cybercrimes and foster digital safety practices, the Institution of Electronics and Telecommunication Engineers (IETE) Student Chapter of EECE Department at GITAM (Deemed to be University) orchestrated a significant initiative. Over a 100+ students, alongside faculty members and advisors, spearheaded a Walkathon along RK Beach Road from the Kali Mata Temple to the YMC, commencing at 6:00 AM on Sunday, March 17th, 2024.



The event was meticulously designed to raise public awareness regarding the imperative nature of cybersecurity in today's digitally interconnected world. Enthusiastic participants marched with fervor, echoing slogans such as “Make Sure before you click”, “Raise before it late”, “Stay Safe Online”, “Unknown click, Unknow problem” and “Protect Your Digital Identity.”

Throughout the Walkathon, attention was drawn to a spectrum of cyber threats, ranging from phishing scams and identity theft to malware attacks and online frauds.

Professor J.B. Seventline, the convener and immediate past Head of the EECE



Department, elucidated several compelling use cases of cyber fraud.

Delving into real-world scenarios, he elucidated the modus operandi of cybercriminals, shedding light on their tactics and techniques. By elucidating tangible examples, he sought to empower both the local public and students with practical insights to identify and thwart potential cyber threats.

The event was coordinated by Prof. P. Bharani Chandra Kumar, HoD-EECE, Prof. J.B. Seventline, Convener, immediate past HoD, IETE faculty advisors Dr. P. Raju, Dr. S. Sarada Rani, and N.V.S.V. Vijay Kumar, and student coordinators Rajesh and Sayeem. Their collective efforts culminated in a resounding success, marking a pivotal step towards fostering a safer and more resilient digital ecosystem. Total participants include 54 inside and 25 outsides

## iSquareR- 2k24

iSquareR2k24 is a two day Technical fest: A Celebration of Innovation and Creativity The IETE Student Chapter's iSquare R event was a grand spectacle filled with technological wonders, artistic talent, and intellectual prowess. The event was held on 21-22<sup>nd</sup> March, 2024.

The event started with a fun filled game named as



human tic tac toe. Following this game, other games were problem solving with coding, food competition, back and back doodling and circuit designing on respective days. All these events concluded to the top five teams of the department.

### Event1: Tech Expo

The Tech Expo held at iSquareR presented an impressive array of innovative technologies. Attendees engaged with interactive displays showcasing advancements in AI, robotics, and IoT. Through hands-on activities and immersive virtual reality experiences, visitors gained insight into the future of tech. The event served as a tribute to human creativity, sparking inspiration among attendees about what lies ahead in the tech world.



The Tech Expo also featured a competition segment where participants showcased their cutting-edge technologies. After careful deliberation, the winners were announced.

Participants:

Inside GITAM	= 40
Other Colleges	= 24
Total	= 64 Teams

1st Prize: Neo Spine by N.Lokesh, B.Aditya of GITAM School of Technology

2nd Prize: Jobby AI by R.Dhanush, V.Saketh, T.Sandeep, S.Naveen of Lendi Institute of Technology and Sciences.

These awards highlight the exceptional talent and innovation demonstrated by the participants, further reinforcing the Tech Expo's commitment to pushing the boundaries of technology and inspiring future advancements.



## Event 2: Art Expo

A Canvas of Creativity Art Expo was a fascinating showcase of artistic expression. A wide variety of works by talented artists from various colleges were gathered together. Whether a thought-provoking installation or a breathtaking landscape, each piece told a unique story, sparked the imagination and encouraged participants to explore their own creative potential.



In addition to the diverse range of artworks on display, the Art Expo also hosted a competition segment to recognize outstanding talent. After careful consideration, the winners were announced:

Participants:

Inside GITAM = 26

Other Colleges = 10

Total = 36

1st Place: Ravada Uday Kiran of GITAM School of Technology

2nd Place: Pentabonu Ganesh of BABA Institute of Technology and Sciences

These awards celebrate the incredible skill and imagination demonstrated by the artists, further enhancing the Art Expo's celebration of creativity and artistic achievement

## Event 3: Robo Race

The competition was an exciting demonstration of engineering skills. Precisely and innovatively designed custom-made vehicles tackled difficult routes and amazed the audience with the possibilities of robotic technology. After intense rounds of racing and meticulous evaluation, the winners were announced:

1st Place: Aman Yadav, Karunakar Reddy, Teja



Aravind of GITAM School of Technology

2nd Place: Abhishek, Rohit, Sai Dileep, Saketh Srinivas of Gayatri Vidhya Parishad



Inside Participants: 30, outside = 15

These awards highlight the remarkable ingenuity and technical proficiency displayed by the participating teams, further emphasizing the potential and excitement of robotic technology in today's world.

## Event 4: Workshops

Workshop on AWS and AI Conducted by Gangadhar T Chowdhary, CEO of Pivotal Soft IT Services Pvt Ltd, were enlightening sessions that covered cloud computing, machine learning, and



neural networks. Participants left with newfound knowledge and skills to venture into new technological territories. These workshops encouraged curiosity and offered a space for learning and exploration, fostering a community dedicated to progress and innovation.,AWS=73 ,& AI=70

Total Participants:143

## Event 5: Paper Presentations

Platform for Discovery Paper Presentations segment showcased groundbreaking research and academic excellence. Participants presented innovative solutions and discoveries that contribute to the advancement of knowledge and inspire the next generation of researchers and scientists.

In addition to the dissemination of cutting-edge research, the Paper Presentations also featured a competition segment to recognize outstanding contributions. After rigorous evaluation and deliberation, the winners were announced.

1st Place: IOT enabled Temperature condition by P.Krupa Raju, T.Sai ,K.Hemanth of Government Polytechnic College, Pendurthi

2nd Place: IOT Smart Shopping Cart by S. Sai Rahul, Sai Nithin,Sai Charan ,B.Shreya of GITAM School of Technology



These awards celebrate the exceptional intellect and dedication demonstrated by the participants, further reinforcing the significance of research and academic inquiry in driving progress and innovation.

Participants:

Inside GITAM = 46  
Other Colleges = 22  
Total = 68



## Event 6: In the Spotlight (Photo Competition)

Capturing the Moment The “In the Spotlight” Photo Competition was a testament to the capabilities of our lenses. Participants captured moments of beauty, emotion and charm, making viewers see the world through their own eyes and instilling an appreciation for the



art of photography.

In addition to showcasing the talent and creativity of photographers, the competition also featured a judging panel to determine the most outstanding entries. After careful consideration and evaluation, the winners were announced:

1st Place: V.Vamsi Krishna of Chaitanya Engineering College

2nd Place: N.Sai Lalith Aditya of GITAM School of Technology

These awards highlight the skill and vision demonstrated by the photographers, further

emphasizing the power of photography to capture and convey the essence of a moment.

Participants:

Inside GITAM	= 44
Other Colleges	= 20
Total	= 64

The iSquare R event, organized by the IETE Student Chapter, seamlessly blended technology and creativity. Attendees immersed themselves in cutting-edge innovation at the Tech Expo, explored artistic expression at the Art Expo, and witnessed engineering excellence during the Robo Race. Insightful workshops on AWS and AI, led by Gangadhar T Chowdhary, empowered participants with knowledge. Additionally, thought-provoking paper presentations showcased groundbreaking research. The captivating “In the Spotlight” photo competition captured moments of beauty and emotion, fostering a vibrant community dedicated to shaping the future of technology. Total participants include 300 inside and 120 outside.





# IEEE STUDENT BRANCH



**IEEE STUDENT BRANCH**  
**DEPARTMENT OF ELECTRICAL, ELECTRONICS AND COMMUNICATION**  
**ENGINEERING**  
**GITAM SCHOOL OF TECHNOLOGY**  
**GITAM Deemed to be University, VISAKHAPATNAM-530045**

**IEEE EXECUTIVE COMMITTEE (2022-23 AY)**

<b>Name of the Faculty</b>	<b>Position</b>
Dr. Md Khwaja Muinuddin Chisti	Student Branch Counselor
Prof. P V Y Jaya Sree	Women in Engineering Affinity Group Faculty Advisor
Dr. K. Renu	Signal Processing Society Faculty Advisor
Dr. U. Ratna Kumari and Dr. B. Srinu	Antenna & Propagation Society Faculty Advisor
Dr. B. Suri Babu Naick	Robotics And Automation Society Faculty Advisor
Mr. K. Aravind Kumar	Power And Energy Society Faculty Advisor

<b>Registration No.</b>	<b>Name</b>	<b>Position</b>
<b>Student Branch</b>		
121910401021	Pavan Vignesh	Student Branch Chair
121910311003	Spandana	Student Branch Vice Chair
121910401040	Neeharika	Student Branch Secretary
122010401052	Shanmukha Shiva	Student Branch Treasurer
121910401023	Satvika	Student Branch Membership Development Lead
121910307044	Madhumita Asapu	Student Branch Program Coordinator
<b>Signal Processing Society</b>		
121910402019	Rupasree	Signal Processing Society Chair
121910402038	Hemanth Murkumbi	Signal Processing Society Vice Chair
121910403005	Ashika	Signal Processing Society Secretary
121910401039	Raghavendra	Signal Processing Society Treasurer
121910402049	Harsha Vardhan	Signal Processing Society Membership Development Lead
<b>Antennas And Propagation Society</b>		
121910401036	Venkata Pavan Rao	Antennas And Propagation Society Chair
121910402011	Anirudh	Antennas And Propagation Society Vice Chair
121910402024	Amrutha Gandhi	Antennas And Propagation Society Secretary
121910401024	Siva Ramakrishna	Antennas And Propagation Society Treasurer
121910401031	Gogineni Pujitha	Antennas And Propagation Society Membership Development Lead
<b>Robotics And Automation Society</b>		
121910403041	Ravada Joel	Robotics And Automation Society Chair
121910402017	Narsina Shivani	Robotics And Automation Society Vice Chair

121910403013	Shyam Saketh	Robotics And Automation Society Secretary
121910401004	Boddeti Manoj	Robotics And Automation Society Treasurer
121910402021	Harish Kumar Reddy	Robotics And Automation Society Membership Development Lead
<b>Women In Engineering Affinity</b>		
121910402023	Mayukha Jayanthi	Women In Engineering Affinity Chair
121910311040	Bala Priyanka	Women In Engineering Affinity Vice Chair
121910402007	Varide Gnaneswari	Women In Engineering Affinity Secretary
121910402043	Reshma Reddy	Women In Engineering Affinity Treasurer
121910312029	Aidhitha Konathala	Women In Engineering Affinity Membership Development Lead
121910311025	Alekhyia Guduru	Women In Engineering Affinity Web Development Lead

## IEEE Events:

### Webinar on “2D and 3D vision for autonomous driving” :

The IEEE Student Branch of GITAM (Deemed to be University) organized a groundbreaking webinar on "2D and 3D Vision for Autonomous Driving" on the 20th of December that provided valuable insights into the design challenges of future autonomous vehicles. The event was held on 20<sup>th</sup> Dec, 2023.

**GITAM** IEEE STUDENT BRANCH  
GITAM SCHOOL OF TECHNOLOGY  
Presents  
**WEBINAR ON**  
**"2D AND 3D VISION FOR AUTONOMOUS DRIVING"**

**SPEAKER**  
**DR. DURGA PRASAD BAVIRISETTI**  
ERCIM RESEARCHER  
NTNU NORWAY

20<sup>th</sup> DECEMBER, 2023 | 04:00 PM - 05:00 PM  
ROOM NO: 431, ICT

**CONVEYERS:**  
Dr. J.B Seventline, Professor & Head EECE Dept.  
Dr. Md Khwaja Muinuddin Chisti, IEEE Student Branch Counselor.  
Dr. B. Suri Babu Naick, IEEE RAS, Faculty Advisor  
Dr. U. Ratna Kumari, IEEE APS, Faculty Advisor  
Dr. K. Renu, IEEE SPS, Faculty Advisor  
Dr. K. Aravind Kumar, IEEE PES, Faculty Advisor  
Dr. B. Srinu, IEEE APS, Faculty Coordinator

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The distinguished speaker, Dr. Durga Prasad Bavirisetti, a renowned researcher at NTNU University, Norway, and an algorithm developer, delved into the intricacies of designing autonomous vehicles incorporating various sensors such as 2D cameras, LiDAR, etc. These sensors play a crucial role in ensuring the safety of the journey, addressing the training complexity of Deep Learning algorithms, and implementing a composite hybrid decision-making system. Dr. Bavirisetti provided an overview of the complex steps involved in decision-making and geo-mapping of locations using HMaps.

This enables vehicles to navigate safely, even in challenging weather conditions such as damaged roads or roads covered with snow. Also the students were encouraged to develop diverse deep-learning algorithms and participate in university competitions focused on the development of autonomous vehicles.



The event was efficiently coordinated by Prof. JB Seventline, Head of the EECE Department, Dr. Md.K.M. Chisti, IEEE Student Branch counselor, and IEEE Faculty Advisors Dr. B. Suribabu, Dr. K. Renu, Dr. U. Ratana Kumari. The student coordinators for the event were Mr. Sai Rahul Sattineni and Ms. P. Sathvika. Total participants include 68 inside and 20 outside

### The Glitch Gala :

The IEEE Student Branch, GITAM (Deemed to be University) in a demonstration of collaboration and student development, organized a technical event “GLITCH GALA” on January 3th,2024. This exceptional event provided a platform for students to exhibit their technical prowess through a series of challenging games that tested their problem-solving skills, creativity, and collaborative spirit.



The heart of the event was undoubtedly the array of technically challenging games designed to push the boundaries of participants' knowledge and skills. Teams competed in games that covered a diverse range of fields, including electronics, robotics, and general knowledge.

1. TRADE CHALLENGE
2. APP-OCALYPSE
3. TECHIE'S TREASURE QUEST
4. RUN - SOUND – GRAB
5. BATTLE BOTS
6. MAD-LIBS

The students from ECE and EEE participated in the fostered insightful discussions and knowledge exchange. The event offered a unique opportunity for participants to connect with like-minded individuals and develop collaborative skills while having lots of fun along the way. Total participants include 46.

## ANTENNA THEORY AND APPLICATIONS FOR DEFENSE :

The IEEE Student Branch at GITAM (Deemed to be University) recently hosted an expert talk titled "Antenna Theory and Applications for Defence" featuring Dr. CH Anil Kumar, Scientist-E at NSTL, Visakhapatnam. The event aimed to delve into the intricacies of antenna design and its pivotal role in defense applications. The event was held on 14<sup>th</sup> Mar, 2024.





Dr. Anil Kumar, a distinguished alumnus with a Ph.D. from Queen's University Belfast, U.K., brought his wealth of experience from esteemed institutions like DRDO and NSTL to the fore. His expertise in antenna and radome design, RCS mitigation techniques, and beamforming proved invaluable to the audience comprising faculty, and students

The talk highlighted various topics related to defense technology, including the Phased Array Warning System (PAWS), which Dr. Anil Kumar elucidated with insightful details. He expounded on the system's capabilities in detecting and tracking sea-launched valuable insights into antenna theory, discussing concepts such as electromagnetic field propagation and the

behavior of antenna structures and intercontinental ballistic missiles, emphasizing its long-range surveillance capabilities of up to 5000 km. Additionally, he delved into the technical aspects such as antenna feed configurations, structural considerations, and mounting schemes.

Furthermore, Dr. Anil Kumar provided . He elaborated on the significance of antenna design in achieving desired performance characteristics, touching upon topics like feed arrangements and mounting strategies. Total participants include 42.







**IETE & IEEE**

**Department of EECE**