GITAM
(DEEMED TO BE UNIVERSITY)
VISAKHAPATNAM • HYDERABAD • BENGALURU

IEEE

DEPARTMENT OF EECE

NEWSLETTER

IETE & IEEE
Professional Societies

JUL 2023 - NOV 2023

Department of Electrical, Electronics and Communication Engineering
GITAM School of Technology, GITAM Deemed to be University
Visakhapatnam-530045, Andhra Pradesh Ph: 085-2840230,
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Contents

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 Departement

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.

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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
- Service 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:

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.

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IETE STUDENT CHAPTER

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IETE STUDENT CHAPTER
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GITAM SCHOOL OF TECHNOLOGY
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IETE STUDENT CHAPTER   Committee List

Name of the Faculty	Position
Dr. P. Raju	Faculty Advisory
Dr. NVSV Vijay Kumar	Faculty Advisory
Dr. S. Sarada Rani	Faculty Advisory

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IETE Excom Committee		
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
IETE Advisory Committee		
122010404024	Krittika Maity	President
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122010401003	Keerthika Chowdary	Joint Secretary
122010407002	Gottipati Varshini	President
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IETE EVENTS

Workshop on 'Virtual Reality'

On the 6th of October 2023, the Institute of Electronics and Telecommunication Engineers (IETE) student chapter at GITAM (Deemed to be University) hosted a full-day Virtual Reality Workshop at the ICT Bhavan in room number 406. The event was attended by students with an enthusiast eager to learn about the emerging field of Virtual Reality (VR). The workshop aimed to provide participants with practical insights into the world of VR and 3D graphics development using the Unity platform.
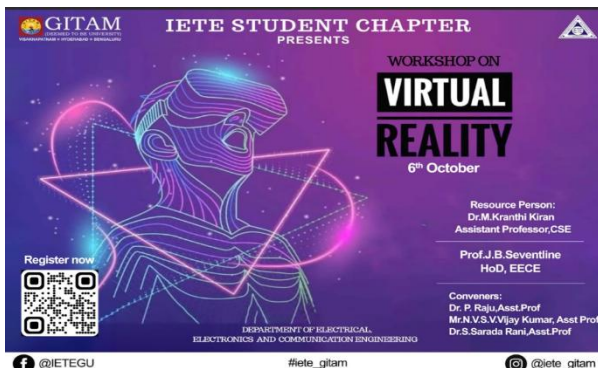
The workshop was graced by distinguished guest," Dr. M. Kranti Kiran sir", The workshop was inaugurated by Prof. J.B. Seventline Ma'am HOD, EECE.

The Virtual Reality Workshop was a resounding success, with participants expressing their satisfaction and enthusiasm for the subject matter. The event concluded at 5:00 PM. IETE faculty Advisors, Dr. P. Raju , Dr. S. Saradha , Sri N V S V Vijay Kumar along with Head of the department Dr.J.B.Seventline and 61 inside and 10 outside participants along with IETE

members rejoiced for the vote of thanks , certificate issue.

వర్చువల్ రియాలిటీపై అవగాహన

Date : 10/10/2023 EditionName : ANDHRA PRADESH(VISAKHAPATNAM) PageNo : 04

వర్చువల్ రియాలిటీ పై గీతంలో వర్క్ షాప్

Date: 10/10/2023, Edition: Vishakapatnam(Vishakapatnam main), Page: 9
Source : https://epaper.vaartha.com/

Quiz competition - TRAILBLAZE:

This event, TrailBlaze(igniting innovation together) was organised by the Institution Of Electronics And Telecommunication Engineers (IETE) student chapter and was held on 18th & 19th of October, 2023 from 4pm to 5pm in R.NO:-418 ICT building The event was exclusively for ECE branch students. In this event Six teams participated, with 2 teams from each section of ECE Second years, Each team consisted of six members from the same section.

The top four teams out of six teams has been qualified to the second day.The second day was also followed by same one non- tech game memory grid , each will be shown one memory grid for 30 secs and after that they have to place same memory grid on cardboard given to them.

The

event spanned two days based on technical and non-technical games. Over 36 active student members and faculty of IETE student chapter initiated to serve the old people and on first day of event started with a non tech round "Pictionary", in this game one of the members from each team should come and take the chits from the bowl and have to explain that word through drawing.

The second round was a technical based round in which all teams have to design a circuit respectively which have been displayed for 60 sec each and each team have to pick one chit with respect to that number they have designed that particular circuit.

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In tech game the final round is the technical quiz round in which each teams gets the score for right answer -2 Marks for wrong answer minus 1.

Finally the event came to the end with winner and runner up's of this two days event. The ECE-406 section students emerged as the winners and runners also. winners were awarded with prize money of 1500 rupees and runners were awarded with 500 rupees The prizes were presented by the faculty advisor, Dr. P. Raju sir.

Webinar on GNSS Scintillation due to Aurora Borealis:

The students and faculty advisors of the IETE Student chapter organised a Webinar where Dr. Sajan C Mushni discussed GNSS Scintillation due to Aurora Borealis on 28th Oct 2023.

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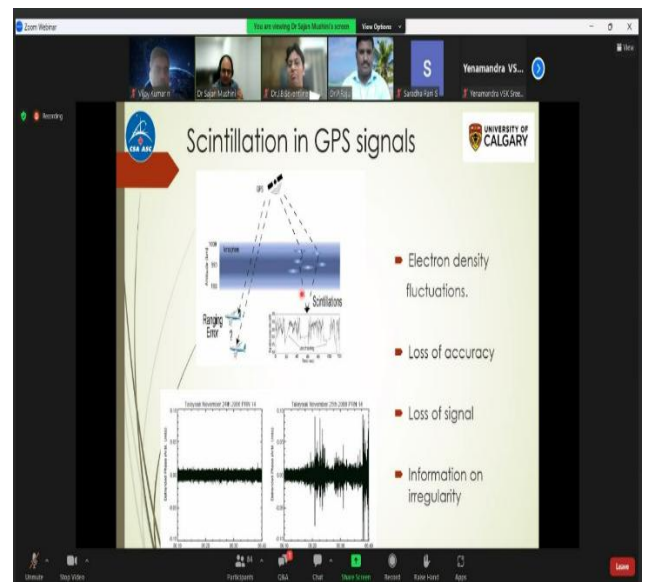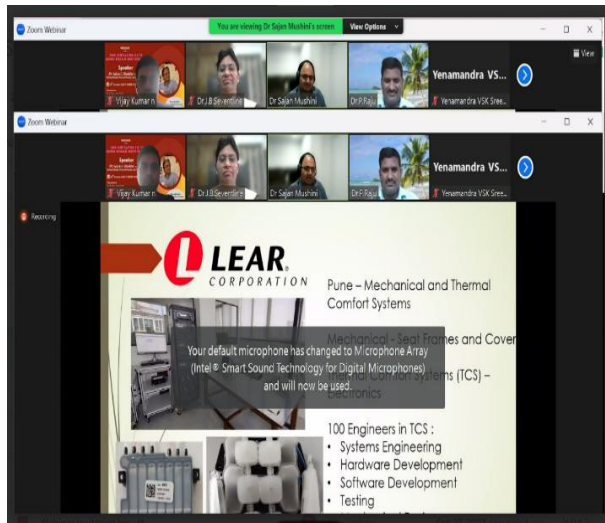
The webinar comprised of information on how GNSS signals passing through structured ionosphere such as aurora may be scintillated causing observation and possibly positioning errors. He gave a detailed account on the creation of Aurora Borealis and the riveting science behind the beautiful phenomenon. This was a followed by an exchange on how it is advantageous to determine the magnitude of GPS signal scintillation associated with a given level of auroral brightness observed around the signal's ionospheric pierce point (IPP). Such information would enable the exploitation of auroral image observations in space weather monitoring and impact assessment.

The speaker addressed Rate of Change of Brightness Index (ROBI), which is derived from the changing auroral brightness around the satellite's IPP. This ROBI is highly positively correlated (correlation coefficient: 0.77) with GPS phase scintillation. A short comparison between Fourier transformation and Wavlet transformation was also made.
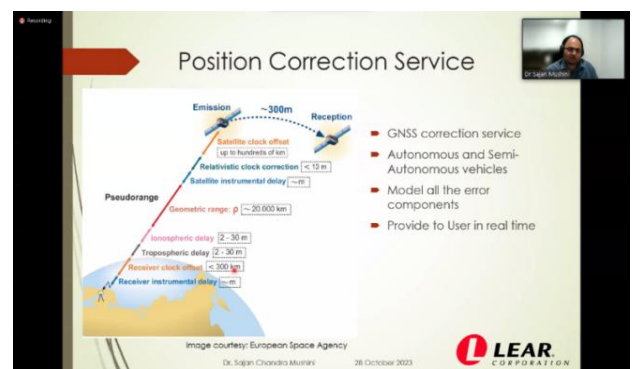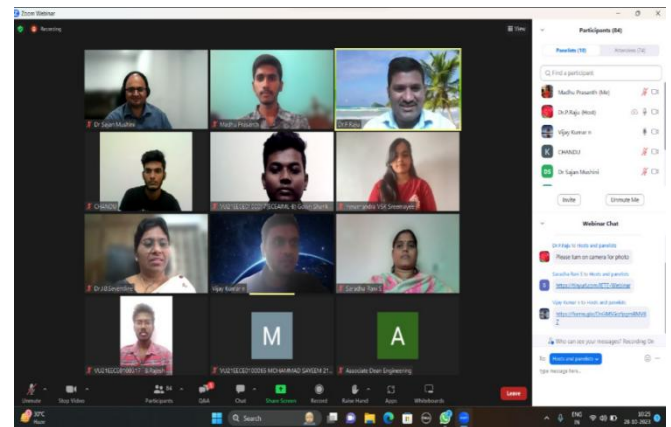
The capability of artificial neural networks to forecast scintillation due to auroral using ROBI derived from All Sky Imager (ASI) data and $\sigma\phi$ for that satellite-derived from a GPS receiver as inputs was discussed. This study has shown that neural network forecasted $\sigma\phi$ clearly follows the $\sigma\phi$ reported by the receiver with a correlation coefficient of 75% between neural network forecasted $\sigma\phi$ and the real $\sigma\phi$ as reported by the receiver.

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The speaker also conversed with the 45 inside and 20 outside participants in a QNA session, where the students and faculty members participated actively.This event is organised by Prof. J.B. Seventline, HoD, EECE, and IETE faculty advisors Dr. P. Raju, Dr.S.Saradha Rani, Mr.N.V.S.V. Vijay Kumar and student coordinators Mr. MD. Sayeem and B.Rajesh.

Social Event at "Maathrusri Retirement Old Age home"

Over 35 active student members and faculty of IETE student chapter initiated to serve the elderly and experience their insights. After spending enough time with them, the students learned the way of life, and the elders' expectations of their children meeting them. It is important that the children are in touch with them, care for them and ensure their basic needs in addition to the old age home workers. Old age homes should only be a last resort when in need of specialized and critical care, as parents are happiest in their children's presence.

Retired individuals are like the pages of a well-worn book, filled with the stories of a lifetime, whose wisdom is indispensable to the youth of our nation. Interacting with them made the students aware of various challenges of life and gave advice on how to face them. The residents at Maathrusri retirement old age home were overjoyed to have interacted with the youngsters, despite missing their loved ones. Nevertheless, it appeared to be a sizeable joint family and had a great time. The IETE student chapter,

EECE Department, GITAM (Deemed to be University) sponsored the lunch on 28-10-2023 to the residents of the old age home. This event is organized by Prof. J.B. Seventline, HoD, EECE, and IETE faculty advisors. Dr. P. Raju, Dr.S.Saradha Rani, Mr.N.V.S.V. Vijay Kumar and student coordinators Mr. MD. Sayeem and B.Rajesh.

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Engineers' Premier League [EPL] 2023:

The Engineers Premier League (EPL), organized by the Institute of Electronics and Telecommunication Engineers (IETE) in the EECE department, was the most awaited event

of the year. The EPL returned with a focus on teamwork and smarts to win the championship. The four-day event, from December 18th to December 21st, 2023, included exciting challenges for second and third-year batch students, both technical and non-technical. Total participants include 42.

The core team of IETE creatively enhanced the atmosphere in the ICT by constructing prototype rocket model. They adorned the space by hanging formula slips from the ceiling and featuring the Engineers Premier League arch. This effort transformed the ICT floor into a visually appealing and decorated environment.

On December 18, 2023, the EPL's first day was full of energy. We started with a fun non-technical game called "fiu." Seven teams from

the 2nd and 3rd-year batches, each with five members, played. The game was about movies, artists, and singers. Grabbing marker in a row of 5 members facing opposite teams is a second game. The students really enjoyed the first day's activities.

On December 19, 2023, the EPL continued with a technical game, focusing on testing students coding skills. The challenge included ten coding questions related to various ECE topics. Participants had to attempt the questions, and their results served as the password for the next set of questions in the PDF. All seven teams participated enthusiastically, showcasing their coding skills. The day was filled with zeal, and the students had a great time during the technical challenge.

On the third day, December 20th, from 11 am to 1 pm, a quiz focusing on ECE subjects was conducted. The quiz comprised two levels - Level 1 and Level 2. All seven teams actively participated, successfully attempting the quiz. The participants not only enjoyed the intellectual challenge but also relished the interactions among team members. The

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competitive atmosphere added to the overall excitement of the event.

The best four teams have been selected to play on the last date of the event. The last game of the event - The murder mystery started with great excitement and eagerness to win the championship title. All four teams did their best to win this EPL championship title.

We are happy to announce that the championship title was given to 3rd-year ECE-B students, followed by runner-up given to 3rd-year ECE - D section, and the fair play award was given to 2nd-year students ECE C section.

The success of this event can be attributed to the invaluable contributions of key individuals, namely, Professor J.B. Seventline, Head of the EECE Department, and our esteemed IETE faculty advisors: Dr.P.Raju, Dr.S.Saradha Rani, Mr. N.V.S.V Vijay Kumar. Additionally, the commendable efforts of the IETE team members, who demonstrated outstanding coordination, played a pivotal role in ensuring the event's grand success. The EPL undoubtedly lived up to its reputation as the battle of the best.

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ECE-3B Winners

ECE-3D Runners

ECE - 2C Fair play

IEEE STUDENT BRANCH

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IEEE EXECUTIVE COMMITTEE (2023-24 AY)

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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

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IEEE Events:

Webinar on Robotics 101 Pathways & possibilities:

IEEE Student Branch, GITAM (Deemed to be University), recently hosted a captivating webinar titled "Robotics 101: Pathways & Possibilities". Held online on **September 12th,2023** the event provided attendees with a platform to explore the intricacies of robotics and uncover new horizons in this dynamic field.
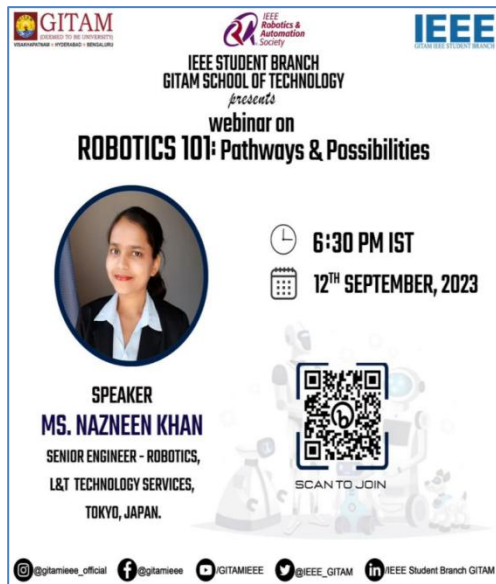

Ms. Nazneen Khan, a Senior Engineer specializing in robotics at L&T Technology Services in Tokyo, Japan, served as the keynote speaker. Her wealth of experience and expertise promised to deliver valuable insights and perspectives on the subject matter.

The webinar promised an enriching experience, with participants eagerly anticipating engaging discussions and thought-provoking revelations.

With the convenience of online access, attendees from various backgrounds and locations were able to come together to learn and exchange ideas.

The event aimed to shed light on the diverse pathways and possibilities within the realm of robotics, offering attendees a comprehensive understanding of the field's potential and opportunities for exploration. Total participants include 63 inside and 20 outside.
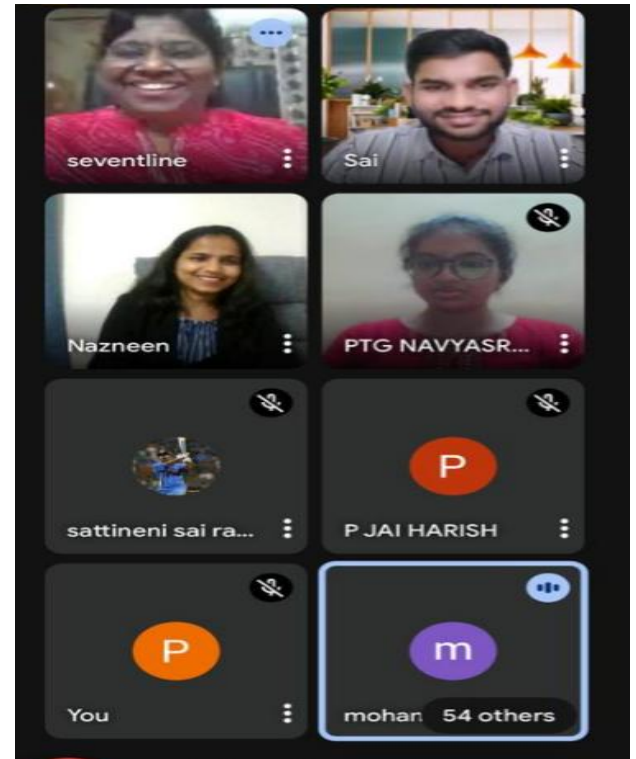
The webinar, spanning 60 minutes, was organized meticulously by the IEEE Robotics and Automation Society at GITAM University. By providing a platform for knowledge-sharing and discussion, the Student chapter continues to play a pivotal role in fostering learning and innovation within the robotics community.

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Overall, the webinar on "Robotics 101: Pathways & Possibilities" exemplified the commitment of GITAM University's IEEE Robotics and Automation Society to advancing knowledge and promoting dialogue in cutting-edge fields of technology

Seminar on High Gain DC-DC Converters :

The IEEE Power and Energy Society, of IEEE Student Branch, GITAM (Deemed to be University) in a demonstration of collaboration and commitment to academic excellence, organized a seminar on "High Gain DC-DC Converters" on August 25th. The Chief guest and the speaker, Dr. Srinivas Bhaskar Karanki, Associate Professor, IIT Bhubaneswar, Past Chair, IEEE Bhubaneswar Section and IEEE Indian Country Liaison delved into the latest progressions in power electronics and power systems, offering invaluable insights into their real-world applications.

During the seminar, Dr. Karanki showcased a series of impactful projects that he supervised, particularly emphasizing their contributions to rural India. He elucidated the integration of modern technologies in power generation, highlighting key initiatives such as indigenous electric vehicle (EV) development, EV charging infrastructure, solar power harnessing, wind power systems, and innovative bio-based power generation using bio grass. Notably, he expounded upon India's vision for a future characterized by homegrown EVs, sustainable energy sources, and eco-friendly power generation methods. Total participants include 54.

Of profound interest were Dr. Karanki's observations on the evolving landscape of electrical engineering and its sustainability in the coming decade. He underlined the prospective synergy between electrical engineering and artificial intelligence (AI), predicting an increasing demand for professionals with a blend of these skills. According to Dr. Karanki, the fusion of electrical engineering expertise with AI specialization is poised to outshine conventional software AI specialization, opening new avenues of opportunity for aspiring engineers. He covered the opportunity of electrical engineering and sustainability of electrical engineering after 10 years.

The students from ECE and EEE participated in the fostered insightful discussions and knowledge exchange. The event offered a unique opportunity for participants to gain valuable insights into the design of high-gain DC-DC converters.

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Tech Fight :

IEEE Student Branch, GITAM (Deemed to be University), orchestrated an electrifying event dubbed "Tech Fight", on 18th Sept, 2023 where participants delved into a day replete with technological challenges that put their skills, teamwork, and ingenuity to the test.

The excitement kicked off with a vibrant welcome and briefing session at the ICT 5th floor, where participants eagerly gathered. With an enthusiastic host steering the proceedings, the stage was set for a dynamic gaming experience. Clear rules and objectives fostered a spirit of friendly rivalry among the contenders.

"Tech Fight" offered a diverse array of technical challenges, providing participants with an immersive journey that deepened their knowledge, honed their problem-solving acumen, and underscored the importance of collaboration. From electronics sorting to deciphering word puzzles and detecting code errors, each challenge presented an opportunity for growth and learning.

The enthusiastic participation of ECE and EEE students showcased their readiness to confront challenges head-on and their unwavering dedication to continual improvement. The resounding success of "Tech Fight" stands as a testament to the tireless efforts and

perseverance of these students, whose passion and curiosity propel them to push the boundaries of technology. Total participants include 45.

Technical Ideate Session :

The IEEE Student Branch at GITAM (Deemed to be University) recently hosted an engaging and intellectually stimulating event titled "Technical Ideate Session". Held on October 18th,2023 at the ICT premises, the session attracted a gathering of 40 enthusiastic participants eager to explore the realms of Arduino, Raspberry Pi, and ESP32.

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Led by the enthusiastic B Ananya, a senior year student, the event provided attendees with a unique platform to delve into the intricacies of these cutting-edge technologies. Through a series of informative discussions and hands-on activities, participants were immersed in a world of electronics, coding, and IoT, gaining valuable insights into the latest trends and developments in the field.

The session not only offered attendees the opportunity to expand their technical knowledge but also facilitated networking with like-minded individuals, fostering a sense of community and collaboration. Participants were encouraged to share ideas, brainstorm solutions, and cultivate their passion for innovation.

The success of the "Technical Ideate Session" stands as a testament to the commitment of the IEEE Student Branch in fostering a culture of learning and innovation. With its blend of informative discussions, hands-on activities, and networking opportunities, the event left attendees inspired and equipped with the knowledge and skills to embark on their own technological endeavors. Total participants include 65.

IEEEXTREME PROGRAMMING COMPETITION 17.0 :

IEEE Student Branch, GITAM (Deemed to be University), Hosts Successful 24-Hour Coding Competition: IEEE Xtreme PROGRAMMING COMPETITION 17.0

On October 28, 2023, the IEEE Student Branch at GITAM (Deemed to be University) organized the highly anticipated "IEEE Xtreme Programming Competition 17.0". Drawing participation exclusively from IEEE student members, the event aimed to foster coding excellence and innovation within the student community.

Over the span of 24 hours, participants engaged in rigorous coding challenges, demonstrating their problem-solving abilities and technical proficiency. Guided by the principles of collaboration and excellence, teams tackled a series of complex programming problems, showcasing their creativity and adaptability.

The competition, held under the auspices of the IEEE Student Branch, provided a platform for students to test their skills, exchange ideas, and network with peers.

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Amidst an atmosphere of focused determination, participants worked tirelessly to devise innovative solutions and optimize their code.

As the competition concluded, participants departed with a sense of achievement and camaraderie, having experienced a thrilling journey of learning and growth. The success of IEEE Xtreme 17.0 underscores the commitment of the IEEE Student Branch at GITAM (Deemed to be University) to promoting technical excellence and collaboration among its members. Total participants include 35.

Raghu avishkara event:

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