DEPARTMENT OF EECE

NEWSLETTER
IETE & IEEE
Professional Societies

JUL 2021 - NOV 2021

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) is 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:

- Electronic Design Engineer
- Desktop Support Engineer
- Technical Director
- Electronic Design Engineer
- Desktop Support Engineer
- Technical Director

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 Institute 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.

Department of Electrical, Electronics and Communication Engineering,
GITAM School of Technology, GITAM Deemed to be University,
Visakhapatnam-530045, Andhra Pradesh,
Ph: 0891-2840230, Website:www.gitam.edu.in

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IETE STUDENT CHAPTER

Department of Electrical, Electronics and Communication Engineering,
GITAM School of Technology, GITAM Deemed to be University,
Visakhapatnam-530045, Andhra Pradesh,
Ph: 0891-2840230, Website:www.gitam.edu.in

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

IETE STUDENT CHAPTER Committee List (2021-2022)AY		
Name of the Faculty	**Position**	
Dr. K.Karuna Kumari	Faculty Advisory	
Dr. S. Neeraja	Faculty Advisory	
Dr. P. Raju	Faculty Advisory	
REG NO.	**NAME**	**POSITION**
IETE Excom Committee		
121910403018	Bhima Shankar	President
122010406002	A.Mitra Teja	Vice President
121910403001	Vishnu Priya D	Secretary
121910401052	Muskan	Joint Secretary
121910403043	Malla Chaitanya	Treasurer
121910402042	Appala Naidu	Joint Treasurer
121910401017	Ravi Vikas	Program CoOrdinator
IETE Advisory Committee		
121810404001	K.Sidharth	President
121810403042	M. Nikith	Vice President
121810401012	Lavanya .K	Secretary
121810404052	K. Monika Anjani	Joint Secretary
121810404052	K. Raghuram	Treasurer
121810401015	N. Harshavardhan	Joint Treasurer
121810404018	T. Kethan Sai	Program CoOrdinator

IETE Student Memberships   **(2021-2022)AY**

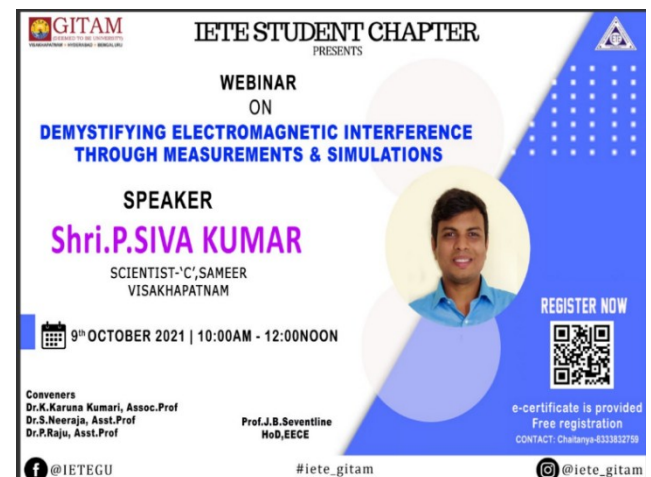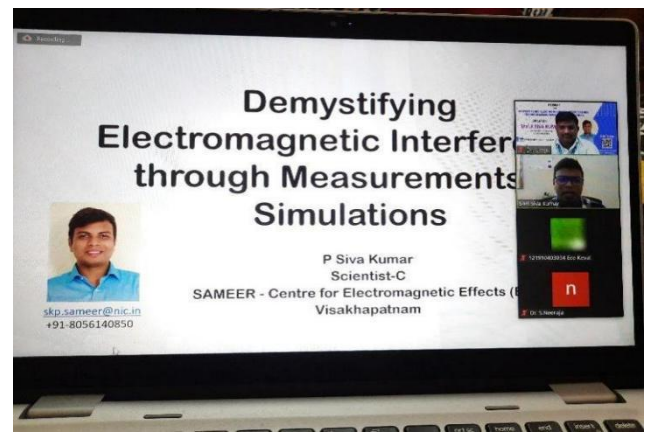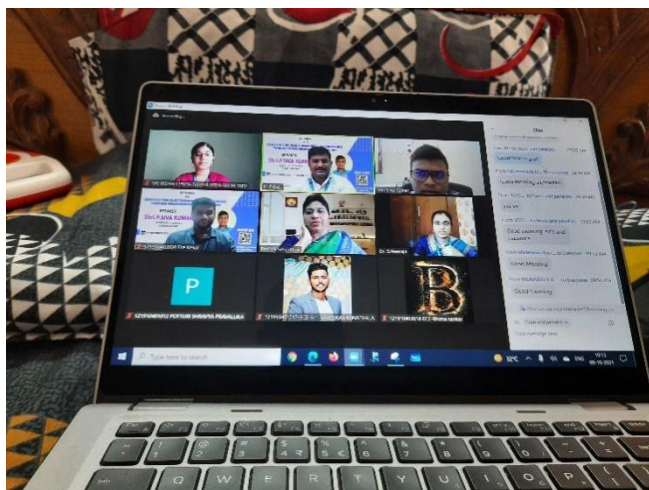| S.No	Membership	NAME	Mail id
1	215187	Cherukuri Keerthika Chowdary	122010401003 @gitam.in
2	215191	G Sri Pujitha	122010401005 @gitam.in
3	215192	Kakarlapudi Venkata Sai Narasimha Raju	122010401008 @gitam.in
4	215193	G Sudipti	122010401009 @gitam.in
5	215194	Raghu Nadh Kodali	122010401011 @gitam.in
6	215195	Priya	122010401012 @gitam.in
7	215196	Korada Harsha Vardhan	122010401018 @gitam.in
8	215197	Edupuganti Viswani	122010404023 @gitam.in
9	215198	Arsh Bhagat	122010401028 @gitam.in
10	215171	Prasannalakshmi Nandeti	122010401029 @gitam.in
11	215172	Dokala Venkata Sai Santoshi Nivas	122010401032 @gitam.in
12	215173	Siva Ram Naidu Golakoti	122010401037 @gitam.in
13	215174	P Sai Ganesh Rahagvendra Reddy	122010401038 @gitam.in
14	215175	Bheemarasetty Kowshil Kumar	122010402037 @gitam.in
15	215176	Pasupuleti Shankar Srinivas	122010402050 @gitam.in
16	215177	Jeevan Reddy	122010404004 @gitam.in
17	215178	Kodali Naga Ruthvik	122010404006 @gitam.in
18	215179	Y Venkata Narendra Reddy	122010404008 @gitam.in
19	215180	Matcha Ram Teja	122010404010 @gitam.in
20	215181	Deepika	122010404013 @gitam.in
21	215190	Marise Sai Shruti	122010404018 @gitam.in
22	215189	Giridhar Sriram Janga	122010404019 @gitam.in
23	215188	Moturi Shashi Kiran	122010404021 @gitam.in
24	215186	Gundu Pruthvi	122010404051 @gitam.in
25	215185	B.Sai Laxman	122010404054 @gitam.in
26	215184	Lalith Sai Saragadam	122010405036 @gitam.in
27	215183	Reddy Pawan Praneeth	122010405057 @gitam.in
28	215182	Krittika Maity	122010404024 @gitam.in
29	215170	Edupuganti Viswani	122010404023 @gitam.in
30	215169	K.Ayyappa	122010404028 @gitam.in
31	215168	Shaik Muhaseena Thaha	122010404033 @gitam.in
32	215167	B.Sai Surya Prakash	122010404047 @gitam.in
33	215166	Surya Prakash Gautam	122010404049 @gitam.in
34	215165	Valmik Injarapu	122010404050 @gitam.in
35	215164	Gottipati Varshini	122010407002 @gitam.in
36	215163	Pasem. Sai Kiran	122010407006 @gitam.in
37	215162	B.Gnana Deepika	122010407009 @gitam.in
38	215161	Harsha Praneeth D	122010407003 @gitam.in
39	215160	Chamarthy Sri Bharathi Charan (Cr)	122010406001 @gitam.in
40	215159	Alla Mitra Teja	122010406002 @gitam.in

41	215158	Sattineni Sai Rahul	122010406003 @gitam.in
42	215157	Sai Nithin Katuri	122010406004 @gitam.in
43	215156	Shreeya Bhardwaj	122010406007 @gitam.in
44	215155	Garipally Saicharan	122010406009 @gitam.in
45	215154	Aditya Vangaru	122010406011 @gitam.in
46	215153	Vanukuru Naga Sai Kaushik	122010406012 @gitam.in
47	215152	Gottipati Varshini	122010407002 @gitam.in
48	215151	Donthamsetti Harsha Praneeth	122010407003 @gitam.in
49	215150	Pasem Sai Kiran	122010407006 @gitam.in
50	215149	Killi Swarna	122010407007 @gitam.in
51	215148	Bheemarsetti Gnana Deepika	122010407009 @gitam.in
52	215147	Chalapaka Yamini	122010404057 @gitam.in

Department of Electrical, Electronics and Communication Engineering,
GITAM School of Technology, GITAM Deemed to be University,
Visakhapatnam-530045, Andhra Pradesh,
Ph: 0891-2840230, Website:www.gitam.edu.in

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IETE EVENTS:

Webinar on Demystifying EMI through measurements and simulations:

The webinar dated 9th October 2021 discussed the basic concepts and applications on Electromagnetic fields and antenna theory, the impact of Electromagnetic interference through measurements and simulations. This webinar will offer a unique opportunity to all the participants in the relevant research advancements in the field of RF/Microwave Electronics, Electromagnetics, Optoelectronics, millimeter wave Technology and its allied areas. The webinar will be useful for UG students, PG Students, Research Scholars and Faculty of Electrical, Electronics and Communication Engineering & allied branches of Engineering and Industry personnel.

The concept of Electromagnetic Interference has many applications in various fields of communications such as Mobile Communications, Satellite Communications, Computer Communications etc. The talk would be useful for students/faculty to understand the basic concepts of Electromagnetic Interference in a practical approach.

Resource person of this webinar, Shri. P. Siva Kumar, Scientist- 'C', Society for Applied Microwave Electronics Engineering & Research (SAMEER), Visakhapatnam, He is an active Scientist and researcher in the areas of EMI/EMC test & measurements, validation of shielded anechoic chambers (NSA, SVSWR, Field Uniformity, Shielding Effectiveness), surface transfer impedance measurements of co-axial cables, high power Electromagnetics, Modeling & simulations of real-time Electromagnetics.he expected participants are students, research scholars, ndustry personnel and faculty from various institutions.

Department of Electrical, Electronics and Communication Engineering,
GITAM School of Technology, GITAM Deemed to be University,
Visakhapatnam-530045, Andhra Pradesh,
Ph: 0891-2840230, Website:www.gitam.edu.in

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IEEE STUDENT BRANCH

Department of Electrical, Electronics and Communication Engineering,
GITAM School of Technology, GITAM Deemed to be University,
Visakhapatnam-530045, Andhra Pradesh,
Ph: 0891-2840230, Website:www.gitam.edu.in

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

IEEE EXECUTIVE COMMITTEE (2024-25 AY)

Name of the Faculty	Position
Dr. Md Khwaja Muinuddin Chisti	Student Branch Counselor
Prof. P V Y Jaya Sree	Women in Engineering Affinity Group Faculty Advisor
Dr. Thumbur Gowri	Signal Processing Society Faculty Advisor
Dr. Srinivasa Rao Vammi	Antenna & Propagation Society Faculty Advisor
Dr. B. Suri Babu Naick	Robotics And Automation Society Faculty Advisor
Dr. Bandaru Durga Prasad	Power And Energy Society Faculty Advisor

Registration No.	Name	Position
Student Branch		
121810403050	Charishma	Student Branch Chair
121810403026	Bharat	Student Branch Secretary
121810403034	Dinesh	Student Branch Treasurer
121810404006	Inan	Student Branch Membership Development Lead
Signal Processing Society		
121810404005	Nikesh	Signal Processing Society Chair
121810404007	M. Sandeep	Signal Processing Society Vice Chair
121810404031	Bharadwaj	Signal Processing Society Secretary
121810402048	Ramana Babu	Signal Processing Society Treasurer
121810404023	Bhargav	Signal Processing Society Membership Development Lead
Antennas And Propagation Society		
121810401006	Anik	Antennas And Propagation Society Chair
121810402015	Balaji	Antennas And Propagation Society Vice Chair
121810403026	Adithya	Antennas And Propagation Society Secretary
121810404022	Nithin	Antennas And Propagation Society Treasurer
121810402038	Sai Kiran	Antennas And Propagation Society Membership Development Lead

Robotics And Automation Society		
121810404056	Sasikanth	Robotics And Automation Society Chair
121810402053	Sudhanshu	Robotics And Automation Society Vice Chair
121810401004	Prithvi	Robotics And Automation Society Secretary
121810402021	Rishwanth	Robotics And Automation Society Treasurer
121810404037	Kulasekhar	Robotics And Automation Society Membership Development Lead
Women In Engineering Affinity		
121810404026	Amrutha	Women In Engineering Affinity Chair
121810404040	Mallika	Women In Engineering Affinity Secretary

IEEE STUDENT BRANCH -- Membership List(2021-22AY)

S.No.	Membership Number	Name	Email Id
1	97170892	Vembuluru Sahith	sahithvembuluru@gmail.com
2	97170893	Pasumarthi Satvika	satvikapasumarthi@gmail.com
3	97171028	Bethanapalli Neeharika	neeharikabethanapalli@gmail.com
4	97171029	Jayanthi Mayukha	mayukhajayanthi@gmail.com
5	97171030	Boddeti Manoj	boddetimanoj893@gmail.com
6	97171257	M Raghavendra Sai Lakshmi	raghavendrarock2002@gmail.com
7	97171258	Varide Gnaneswari	gnaneswarivaride2@gmail.com
8	97171259	Murkumbi Hemanth	hemanth12908@gmail.com
9	97171295	O Pavan Rao Venkata	venkatapavanrao@gmail.com
10	97171296	Koduri Haripriya Vijaya Sai	haripriyakoduri@gmail.com
11	97171300	Narsina Shivani	narsina.shivani@gmail.com
12	97171302	Mathala Sreenivas	sreenivasmathala486@gmail.com
13	97171446	Ponuku Sirisha Krupa	krupasirishaponuku@gmail.com
14	97171618	Yenuganti Dharani	dharaniyenuganti2002@gmail.com
15	97171694	Nadendla Sai Kumar	nadendlasai2001@gmail.com
16	97171735	Penukuduru Rupa Sree	rupasree783@gmail.com
17	97171738	Palla Kishore Yadav	pallakishoreyadav@gmail.com
18	97171896	Penta Jahnavi	janup20112001@gmail.com
19	97171898	Tirupathi Pavan Vignesh	pavan.vignesh01@gmail.com
20	97172086	Ponnada Chandra Sekhar	chandrasekharponnada845@gmail.com
21	97172517	Sigatapu Sai Veera Nagesh	ssvnagesh4653426@gmail.com
22	97172555	Puppala Shyam Saketh	shyamsakethpuppala@gmail.com
23	97172569	Peddu Sreya	sreyapeddu00@gmail.com
24	97172571	Gattu Rohit	gatturohit@gmail.com
25	97172590	Gogineni Pujitha	pujithagogineni80@gmail.com
26	97172684	Gandi Amrutha	amruthagandi123@gmail.com
27	97172875	Annapureddy Reshma Reddy	reshmareddy2805@gmail.com
28	97172918	Kodali Sujay Naga	kns1vizag@gmail.com
29	97173121	Ravada Joel	ravadajoel1@gmail.com
30	97173315	Boddu Satya Sai Harsha Vardhan	harshabss333@gmail.com
31	97173336	Vonteddu Sai Kiran	saikiran.vonteddu@gmail.com
32	97173409	Pakala Anirudh	anirudh.p11117@gmail.com
33	97173456	Vadali Abhilash	vadaliabhilash@gmail.com
34	97173536	Kumar Viyyapu Hemanth	viyyapuhemanth1@gmail.com
35	97173638	Palla Siva Ramakrishna	sivapalla1712@gmail.com
36	97174694	Gorli Deepak Varaha Venkata	deepakgorle2002@gmail.com
37	97176952	Bongarla Swetha	bongarlaswetha939@gmail.com

Department of Electrical, Electronics and Communication Engineering,
GITAM School of Technology, GITAM Deemed to be University,
Visakhapatnam-530045, Andhra Pradesh,
Ph: 0891-2840230, Website:www.gitam.edu.in

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38	97177309	Suryadevara Harshitha	121910403021@gitam.in
39	97401712	Garikapati Ashika	121910403005@gitam.in
40	97510138	P. Jayashwani	jayashu16081630@gmail.com
41	97516447	Reddy Harish Kumar	121910402021@gitam.in
42	97523938	Kusumpdi Suhrudha	121910403030@gitam.in
43	98082394	Karthikeya Madala	kmadala@gitam.in
44	98082430	Sandeep Akella Surya	akellasuryasandeep@gmail.com
45	98082462	Addepalli Neha	neha.addepalli@gmail.com
46	98082476	Vemali Hima Varshini	hvemali@gitam.in
47	98082570	Babu Chintala Bhuvanesh	bchintal@gitam.in
48	98082598	Alamanda Chandra Sekhar	alamandachandrasekhar00@gmail.com
49	98082601	Golakoti Siva Ram Naidu	sgolakot@gitam.in
50	98082683	Sattineni Sai Rahul	ssrcherry@gmail.com
51	98082686	Panuganti Sai Likhith	spanugan@gitam.in
52	98082700	Srivastava Jay	jsrivast@gitam.in
53	98083111	Saragadam Lalith Sai	lsaragad@gitam.in
54	98083142	Badam Sai Sashidhar	vbadam@gitam.in
55	98083146	Nama Sai Somya	namasaisomya2003@gmail.com
56	98083205	Gompa Prudhvi Teja	pgompa@gitam.in
57	98083218	Putrevu Asritha Satya Laxmi	lputrevu@gitam.in
58	98083228	Balakrishna Varjula	varjulabalakrishna@gmail.com
59	98083276	Raju Sree Rama	manojvarmaa1263@gmail.com
60	98083296	Rampalli Satyasai Ananth Eswara Vara Prasad	satyasairampalli2002@gmail.com
61	98083297	Yenupuri Gyaneswara Sai Kumar	gyaneswar2003@gmail.com
62	98083409	Naupada Karthik Manikanta	naupadakarthik@gmail.com
63	98083414	Chollangi Satvika Syama	schollan@gitam.in
64	98083435	Bharadwaja Sasi Preetham	sasismart43@gmail.com
65	98083507	Alluri Lohitha	allurilohitha1503@gmail.com
66	98083511	Sudipti G	sgunuput@gitam.in
67	98083524	Chavvakula Abhishek	achavvak@gitam.in
68	98083562	Adduri Srinivas Raghava	sadduri@gitam.in
69	98083578	Ventrapragada Sri Chandra Neha	nventrap@gitam.in
70	98083595	Shukla Ashish	ashukla@gitam.in
71	98083727	Kundula Sai Vamsi	skundula@gitam.in
72	98083867	Chamarthy Sri Bharathi Charan	charanaathreya16@gmail.com
73	98083910	Raghupatruni Sree Raj	rraghupa@gitam.in
74	98083927	Gurrala Lalith Kumar	lgurrala@gitam.in
75	98083930	Vanarasi Geethika S R N L	geethikavanarasi2002@gmail.com
76	98083964	Srinivas Tata Aneesh	atata@gitam.in
77	98083971	Katuri Sai Nithin	sai.nithin124@gmail.com
78	98083973	Ganta Sri Pujitha	sripujithaganta@gmail.com
79	98084004	Motati Pavan Kumar Reddy	preddym@gitam.in
80	98084014	Shaik Muhaseena Thaha	sthaha@gitam.in

81	98084052	Pruthvi Gundu	pruthvigundu31@gmail.com
82	98084059	D Harsha Praneeth	h.p.ed.jp@gmail.com
83	98084064	Vangalapudi Shanmukh Shiva	svangala3@gitam.in
84	98084086	Sowmya Meesala Sai	smeesala@gitam.in
85	98084090	Annamareddy Veeranna Chowdary	veerannachowdary.annamareddy@gmail.com
86	98084142	Muvvala Manoj	manojmuvvala22@gmail.com
87	98084201	Ansari Shaik Mohammad	mansari@gitam.in
88	98084259	Booragadda Dinesh Venkata Subba	dbooraga@gitam.in
89	98084471	Gannamani Amrutha Keerthi	agannama@gitam.in
90	98084577	Janga Giridhar Sriram	gjanga@gitam.in
91	98084618	Ommi Anusha Sai Sri	sommi@gitam.in
92	98084725	Chinamsetty Joshitha	jchinams@gitam.in
93	98084732	Kopparapu Sruthi	skoppara@gitam.in
94	98084742	Telugu Anitha Sri	atelugu@gitam.in
95	98084779	Buddaraju Satwik	sbuddara@gitam.in
96	98084829	Ramesh Abhinash	aramesh3@gitam.in
97	98084878	Polina Raviteja	rpolina@gitam.in
98	98084879	Kalyana Tony Mathews	smartstar456@gmail.com
99	98084896	Manyam Shilesh Reddy	smanyam@gitam.in
100	98084909	Pasupuleti Shankar Srinivas	shankarpasupuleti1125@gmail.com
101	98084924	Tangirala Ajith	ajithtangirala2018@gmail.com
102	98084928	Kose Riya Bhaiyyaji	rkose@gitam.in
103	98084984	Ramireddy Madhu Mahesh Reddy	maheshmadhu822@gmail.com
104	98084992	Endreddi Udaya Kiran	ekiran@gitam.in
105	98085001	Dora Chandra Harsha	chandraharsha70955@gmail.com
106	98085006	Ramdevu Venkata Sumanohar	manoharramdevu@gmail.com
107	98085008	Gunturi Ajay Varma	agunturi@gitam.in
108	98085020	Kothapalli Karthikeya Venkata Sri	kkothapa@gitam.in
109	98085101	Pammi Venkata Mahendra Reddy	vpammi@gitam.in
110	98085140	Chilakala Tintu Manohar Sai	tchilaka@gitam.in
111	98085162	Mahesha Kushi	kmahesha@gitam.in
112	98085165	Nalleru Phaneendra Reddy	pnalleru@gitam.in
113	98085296	Manyapuri Manish Kumar	mmanyapu@gitam.in
114	98085302	Y Saran Kumar	sarankumarxo@gmail.com
115	98085514	Lanke Prapulla Pavani Priyanka	pavanipriyanka2003@gmail.com
116	98174646	Budda Padmakar	121910402046@gitam.in
117	98300170	Abdul Nasir Khan	nabdul@gitam.in
118	98300293	Maddamsetty Krishna Karthik	krishnakarthikmaddamsetty@gmail.com
119	98303332	Pattnaik Ayush	pattnaik09ayush@gmail.com
120	98303443	Vuppala Sarvan	svuppala@gitam.in
121	98306543	Chandel Archit	achandel@gitam.in
122	98332562	Garuda Sai Pattabhi Ram	sgaruda@gitam.in

Re-Wire Series - Chatbots using AIML:

IEEE Student Branch, GITAM (Deemed to be University) launched the first video of 'RE-WIRE SERIES' on Chatbots using AIML by Mr. Boddeti Manoj, Sub-Executive Committee Member, GITAM IEEE SB.

From customer service to doubt clarification, Chatbots are human-like bots that deliver instant responses and give answers to any complex queries around the clock. Artificial Intelligence Markup Language(AIML) is a dialect for creating natural language software agents like Chatbots. They gather necessary information and provide effective support. In this video, one learnt how to build their own personalized Chatbot.

Department of atomic energy, Govt. of India, speaking to students, said the next generation is shifting to automation of every aspect of human and industrial work and the ML algorithms playing an essential role in this development. As solar energy utilization is the main challenge nowadays, the hands-on lab session on "Forecasting of solar irradiance with different weather conditions using ML" helping the to estimate the irradiance depending on many parameters like humidity, lighting, cloud, wind, radiation, ..etc. made the students learn and implement ML system. This algorithm helps to import the power from the Grid efficiently by analyzing the previously known data. It helps us extract and plan the power that can be imported from the Grid at that instance. This work helps in improving the utilization of renewable energy in India.

Webinar On Machine Learning and Its Application in Electrical Power and Communication Systems :

IEEE Student Branch, GITAM (Deemed to be University), Visakhapatnam has organized a Webinar on "Machine Learning and its Application in Electrical Power and Communication Systems" for students across State via zoom platform. This event was organized to expose students to hands-on practice of Machine Learning in Electrical Power and Communication Systems and impart knowledge on and Machine Learning applications in Electrical Power and Communication Systems. The chief guest of the event, Mr. Butukuri Koti Reddy, Scientific Officer,

The Speakers, Mr. Krishna Sandeep Ayyagari EX. SR. Electrical Engineer, Musimmos Oil Refinery, enlighten on different ML algorithms, and Speaker Mr. Rahul Mundlamuri, EX. Data Engineer, VRN Technologies, Austin, Texas, enlighten on ML algorithms in Communications MIMO Radars for locating targets.

This webinar is targeted to the student for getting ready with industry-ready skills and pursuing research in Electrical and Communication Systems. 105 participants that include Research scholars, M.Tech, and B.Tech students participated in the event. This webinar made students more inclined to grow their knowledge in various research fields. The event is coordinated by Dr. J.B. Seventline, Professor and Head, EECE

Department of Electrical, Electronics and Communication Engineering,
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Visakhapatnam-530045, Andhra Pradesh,
Ph: 0891-2840230, Website:www.gitam.edu.in

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Department, GIT, Md.K.M. Chisti, Branch Counsellor, IEEE GITAM Student Branch, Charishma Yajjala, Student Chair, IEEE.
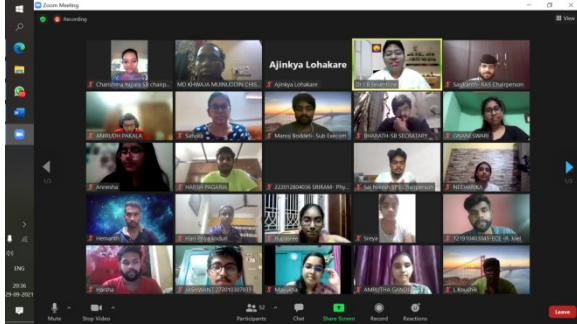

Ultrasonic and IR Sensors, Re-Wire Series-02:

IEEE Student Branch, GITAM (Deemed to be University) launched the video of 'RE-WIRE SERIES- Ultrasonic and IR Sensors ' by Mr. Ravada Joel, Technical Associate, GITAM IEEE SB.

From security to navigation, Ultrasonic and IR sensors have shown their importance in our daily lives. Ultrasonic and IR Sensors are based on the detection of temperature and sound. They gather necessary information and provide effective support.

In this video, you can learn how to build your own personalized sensor.

The video demonstrates the construction and working of Ultrasonic and IR Sensors using Arduino via tinker cad (an online simulation tool). One can construct his/her own Ultrasonic and IR Sensors using Tinkercad.

Five-day hands-on workshop on Cyber Security and Ethical Hacking :

There is a huge demand of the ethical hacker professionals keeping in mind the frequent cyber attacks on the companies and banks critical information systems. In this view, IEEE Student Branch GITAM Deemed to be University Visakhapatnam inaugurated a "Five-day hands-on workshop on Cyber Security and Ethical Hacking" conducted from 30th Sep 2021 to 4th Oct 2021. The workshop's chief guest and speaker, Mr. Ajinkya

Lohakare, CTO and Founder of Ditto Security, Certified Ethical Hacker, TEDX, and JOSH Talk Speaker, a paid security consultant, acted as the trainer of the registered participants across the state. The workshop aimed to create awareness of ethical hacking, email hacking, SQL injection, mobile hacking, and cyberattacks… this helps the participants suspect and protect themselves from fraud mails and ads. The participants will be trained hands-on with different Tool kits to learn various tools and techniques in this field. This

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Visakhapatnam-530045, Andhra Pradesh,
Ph: 0891-2840230, Website:www.gitam.edu.in

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allows the participants to enhance their knowledge, protect their systems against attacks, and stay safe from these virtual world vulnerabilities. These improve their skill in the field and further help them to get certified. The event is coordinated by Prof. J.B. Seventhline, Head of the EECE Department, Md. K.M.Chisti, IEEE Student Branch Counselor, Yajjala Charishma, IEEE Student chair.

సైబర్ సెక్యూరిటీపై గీతం ఐఈఈఈ వర్క్‌షాప్

రుషికొండ, సెప్టెంబర్ 30, ప్రభాతవార్త

ప్రపంచంలోని ఆర్థిక సంస్థలు, ప్రముఖ కంపెనీలు, ప్రభుత్వ కీలక శాఖలపై తరుచుగా జరుగుతున్న సైబర్ దాడులను దృష్టిలో ఉంచుకుని గీతం డీమ్డ్ విశ్వవిద్యాలయం ఇన్‌స్టిట్యూట్ ఆఫ్ ఎలక్ట్రికల్ అండ్ ఎలక్ట్రానిక్స్ ఇంజనీర్స్ (ఐఈఈఈ) విద్యార్థి విభాగం గురువారం సైబర్ సెక్యూరిటీ ఎథికల్ హ్యాకింగ్ పై వర్క్‌షాపును నిర్వహించింది. కార్యక్రమానికి డిజిటల్ సెక్యూరిటీ సంస్థ చీఫ్ టెక్నాలజీ ఆఫీసర్ అజింక లోహకరే హాజరై విద్యార్థులకు సైబర్‌దాడులు, ఎథికల్ హ్యాకింగ్, మొబైల్ హ్యాకింగ్, ఈ-మెయిల్ హ్యాకింగ్, ఎస్‌క్యూఎల్ ఇంజెక్షన్ తదితర అంశాలపై అవగాహన కల్పించారు. మోసపూరిత ఈ మెయిల్స్, సైబర్ దాడుల నుంచి అప్రమత్తంగా ఉండాలని సూచించారు. కార్యక్రమ సంధానకర్త డాక్టర్ జె.బి.సెవెన్ లైన్ మాట్లాడుతూ విద్యార్థులకు సైబర్ సెక్యూరిటీ అంశాలపై విద్యార్థుల అవగాహన పెంపొందించాల్సిన. ఐఈఈఈ గీతం విద్యార్థి విభాగం ఫ్యాకల్టీ కౌన్సిలర్ మహ్మద్ కె.ఎం.చిస్తీ, విద్యార్థి విభాగం అధ్యక్షురాలు వై.చరిష్మా తదితరులు పాల్గొన్నారు.

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https://epaper.vaartha.com/m5/3244556/Vishakhapatnam/01-10-2021#page/3/1

సైబర్ సెక్యూరిటీపై గీతం ఐఈఈఈ వర్క్‌షాప్

విశాలాంధ్ర - మధురవాడ: ప్రపంచంలోని ఆర్థిక సంస్థలు, ప్రముఖ కంపెనీలు, ప్రభుత్వ కీలక శాఖలపై తరుచుగా జరుగుతున్న సైబర్ దాడులను దృష్టిలో ఉంచుకుని గీతం డీమ్డ్ విశ్వవిద్యాలయం ఇన్‌స్టిట్యూట్ ఆఫ్ ఎలక్ట్రికల్ అండ్ ఎలక్ట్రానిక్స్ ఇంజనీర్స్ (ఐఈఈఈ) విద్యార్థి విభాగం గురువారం సైబర్ సెక్యూరిటీ ఎథికల్ హ్యాకింగ్‌పై వర్క్‌షాపును నిర్వహించింది. కార్యక్రమానికి డిజిటల్ సెక్యూరిటీ సంస్థ చీఫ్ టెక్నాలజీ ఆఫీసర్ అజింక లోహకరే హాజరై విద్యార్థులకు సైబర్‌దాడులు, ఎథికల్ హ్యాకింగ్, మొబైల్ హ్యాకింగ్, ఈ-మెయిల్ హ్యాకింగ్, ఎస్‌క్యూఎల్ ఇంజెక్షన్ తదితర అంశాలపై అవగాహన కల్పించారు. కార్యక్రమంలో డాక్టర్ జె.బి.సెవెన్‌లైన్, ఐఈఈఈ గీతం విద్యార్థి విభాగం ఫ్యాకల్టీ కౌన్సిలర్ మహ్మద్ కె.ఎం.చిస్తీ, విద్యార్థి విభాగం అధ్యక్షురాలు వై. చరిష్మా తదితరులు పాల్గొన్నారు.

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https://visalaandhra.com/epaper/

సైబర్ సెక్యూరిటీపై సదస్సు

సాగర్‌నగర్, ఎండాడ, న్యూస్ టుడే: గీతం డీమ్స్ వర్సిటీ ఇన్‌స్టిట్యూట్ ఆఫ్ ఎలక్ట్రికల్ అండ్ ఎలక్ట్రానిక్స్ ఇంజినీర్స్ (ఐఈఈఈ) విద్యార్థి విభాగం ఆధ్వర్యంలో సైబర్ సెక్యూరిటీ ఎథికల్ హ్యాకింగ్ సంబంధిత అంశాలపై గురువారం సదస్సు నిర్వహించారు. డిజిటల్ సెక్యూరిటీ సంస్థ చీఫ్ టెక్నాలజీ అధికారి అజింక లోహకరే మాట్లాడుతూ ఎథికల్ హ్యాకింగ్, మొబైల్ హ్యాకింగ్ తదితర ముఖ్యాంశాలపై విద్యార్థులకు అవగాహన కల్పించారు. మోసపూరిత ఈమెయిల్స్, సైబర్ దాడుల నుంచి అప్రమత్తంగా ఉండాలని సూచించారు. సదస్సు సమన్వయకర్త డాక్టర్ జె.బి. సెవెన్త్‌లైన్, గీతం ఆయా విద్యార్థి విభాగం ఫ్యాకల్టీ కౌన్సిలర్ మహ్మద్ కె.ఎం. చిస్తీ, వై. చరిష్మా తదితరులు పాల్గొన్నారు.

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https://epaper.eenadu.net/Home/Index?date=01/10/2021&eid=22&pid=1528757

WEBINAR ON "KNOW YOUR IEEE" :

On the occasion of IEEE Day 2021, IEEE Student Branch, GITAM (Deemed to be University), organized a "Know about IEEE" session on 5th October 2021, at 18:30 hours IST. It was scheduled to promote awareness about the benefits of IEEE Student Membership and what it means to be a part of the Team IEEE.

Department of Electrical, Electronics and Communication Engineering,
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Visakhapatnam-530045, Andhra Pradesh,
Ph: 0891-2840230, Website: www.gitam.edu.in

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from GITAM's student branch have been recognized for the Outstanding Student Volunteer award in the men's and women's categories, respectively. The award recognizes an individual who has made outstanding contributions to the IEEE community through volunteer work. The student branch is proud to have one of its own receive this recognition.

IEEE Day Celebration 2021

The IEEE Student Branch GITAM (Deemed to be University) has been awarded the Outstanding Student Branch Award for 2021 & 2022. Among the 40 active student branches in the Vizag Bay Section, IEEE Student Branch, GITAM stood out for its various activities that have helped students better understand core concepts in the field. The Rewire series, hands-on workshops, and subject-specific workshops were just some of the activities that contributed to GITAM's recognition. The award is a testament to the hard work and commitment of the student branch members.

Out of more than 150 professional volunteers, Dr. Md. Khwaja Muinuddin Chisti has secured an Outstanding Volunteer Award marking his insights and values turned into student enrichment. Of 1000's volunteers from various student branches within Vizag Bay Section, Mr. T. Pavan Vignesh and Ms. B. Neeharika

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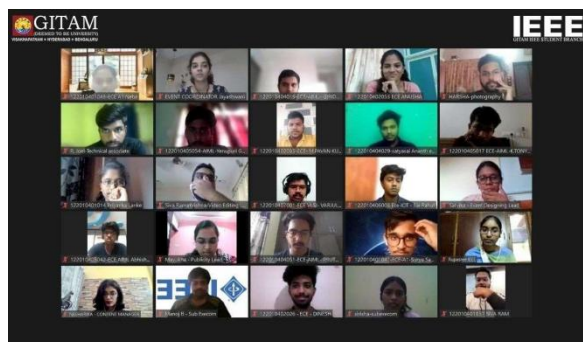Ph: 0891-2840230, Website:www.gitam.edu.in

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of image processing algorithms. Digital image processing is an advanced technology that enables you to manipulate digital images through computer software. Image processing is widely applicable in the field of Science and Technology like remote sensing, face detection, optical character recognition, finger-print detection, and so on. In this video, one learnt how to work with different applications of Image Processing.

The success of the student branch of GITAM is mainly due to the support of its team members and faculty. Their tireless efforts have helped make the various activities and initiatives of the student branch a success. The student branch looks forward to continuing its contributions to technology and engineering with the support of its team members and faculty.

Basics of Image Processing, Re-Wire Series-03:

IEEE Student Branch, GITAM (Deemed to be University) launched the third video of 'RE-WIRE SERIES' on Basics of Image Processing by Shivani Narsina, Technical Project Lead, GITAM IEEE SB. We are surrounded by beautiful visuals and colorful images all around us. While our eyes can visualize the colors and capture various notions of an image with ease, it is a complex process for computers to recognize these same images. For the analysis of these image visuals, we make use

IEEE RECRUITMENT DRIVE FOR FRESHERS 2021:

IEEE Student Branch, GITAM (Deemed to be University) organized its 2-day Recruitment Drive on 15th and 16th October for the current 2020-2024 batch, which was held in 3 rounds from which the brave and energetics were funneled down. The selection procedure of the drive was the written test held on 15th October 2021 to test each student's Knowledge of aptitude, software language, and Knowledge of core subjects. Based on each student's performance, 67 students were selected for the Group Discussion. The group discussion was held on 16th October 2021. Eight key parameters like Parameters Knowledge of the subject, listening skill, taking initiative, Communication skills, Confidence, submissiveness, Body language, Confidence were used as mandatory skills to shortlist students in the group discussion. All the selected candidates in the group discussion attended a final interview on the same day at 3:00

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P.M. Students were asked technical questions, current affairs, and general HR questions in the interview. Each student was interviewed for between 30 minutes to 45 minutes. Based on individual performances, 43 students from the 2nd year were selected for the team. Every candidate who engaged in the drive demonstrated determination and compassion to join team IEEE.

Cloud Computing, Re-Wire Series-02:

IEEE Student Branch, GITAM (Deemed to be University) presents the next video of 'RE-WIRE SERIES' on Cloud Computing by Gnaneswari Varide, Event Management lead, GITAM IEEE SB.

Cloud computing is one of the most renowned and in-demand cutting-edge technologies of the era. It is a general term for anything that involves storing, managing, and accessing data on remote servers via the internet. Due to technological progress, a large number of industries and enterprises are actively incorporating Cloud Computing applications these days for the better functioning of their business. Furthermore, such servers and software help with automation, making mundane tasks more efficient. The video demonstrates the working of Cloud Computing!

Re-Wire Series - 7 Segment Display:

IEEE Student Branch, GITAM (Deemed to be University) presents the next video of 'RE-WIRE SERIES' on 7-Segment Display by Sujay and Shanmuka, Sub Executive Committee Members, GITAM IEEE SB.

Ever wondered how the number comes up whenever you type something on a calculator or how the time changes on a digital clock? 7-Segment display is used for displaying values in such electronic devices.

7-Segment Displays convert digital signals into a form that can be displayed and understood by the user. They provide a convenient way of displaying numerical information from zero to nine as they basically consist of a load of light emitting diodes connected together within a single indicator package.

The video demonstrates the complete construction and working of 7 segment display via online simulation

OPENING CEREMONY FOR THE IEEE AIAC STUDENT BRANCH:

IEEE Student Branch, GITAM (Deemed to be University) participated in the opening ceremony for the IEEE AIAC student branch, Morocco, where history, and finally its feats and benefits of IEEE organization worldwide.

The event started with introductory speeches of Professor Mohamed Essaaidi , Mr. Yassine Maleh, Ph.D. and Mr. Rifai. Where complete elaboration of IEEE was demonstrated. They explained how IEEE could be beneficial to each and every one and how to take the best benefits of IEEE membership. The IEEE Student Branch GITAM represented IEEE from India where the Student Branch, Mrs.Charishma Yajjala briefed about IEEE Student Branch GITAM and the activities conducted by GITAM IEEE. Mr Rohan M., who is the chairperson of IEEE AUS Student Branch showcased and represented IEEE AUS. IEEE Kafrelsheikh Student Branch with Mr. Tarek Mohamed gave international insight on their journeys and experiences as an IEEE student branch.

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