

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY



DEPT. OF ELECTRONICS AND
COMMUNICATION ENGINEERING

NEWS LETTER

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ECE BLOCK:



Vision Statement: The Vision of the Department is to strive towards the development and dissemination of knowledge in the areas of Electronics and Communication Engineering and empower young engineers to acquire technical excellence imbued with ethical and moral values that leads to collective global success.

Mission Statement: The Mission of the Department is to inspire and motivate the students to acquire knowledge to develop and serve the industry and society with great zeal. It aims to impart value based technical education of global standards and transform the students into disciplined, talented citizens of impeccable character, fused with hands on training to make them good entrepreneurs with an emphasis to develop social, cultural, ethical and environmental consciousness and life-long learning.

EDITORIAL BOARD:

FACULTY:

Dr. S. P. Singh

Dr. D. Venkat Reddy

Dr. T. D. Bhatt

Dr. Ch. Raja, In-Charge

Mr. P. Vinod Reddy

Mr. D. Anji Reddy

STUDENTS:

Mr. P. Aravind

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- I. Prepare the students to have strong foundation in Mathematical, Scientific, Engineering fundamentals and Communication skills to formulate, understand, analyze and solve the technological problems and also assimilate knowledge through life-long learning.
- II. Inculcate the managerial skills, basic concepts in Electrical Engineering and modern engineering IT tools that help the students to work in multidisciplinary environments.
- III. Impart sufficient knowledge to solve complex problems in the field of Electronics and Communication Engineering for a successful career through global education standards.
- IV. To mould the graduates for approaching the process of formulating a design solution for the given specifications with optimum performance including ethical, economic considerations and societal impacts.

FACULTY PUBLICATIONS

1. **Dr. S.P. Singh**, “**Orthogonal One Twenty Phase Sequence Sets Design Using MGA**”, International Conference on Advances in Electronics and Communication Engineering (ICAECE-2019), ISBN: 978-93-5382-058-9, organized by department of ECE, CMRCET. 9-10 July 2019, Pp 23.
2. **Dr.D.Venkat Reddy**, “**Dual Filter Based Images Fusion Algorithm for CT and MRI Medical Images**”, International Journal of Innovative technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume -8, Issue-9, July, 2019.
3. **Dr.Ch.Raja**, “**A High-Performance FIR Filter Architecture for Fixed and Reconfigurable Applications**”, International Journal of Research (IJR), Vol-09, Issue-06, Page No.1334 – 1341, July 2019.
4. **Dr.T.D.Bhatt**, “**Pulse Compression Waveforms: Applications to Radar Systems**”, International Conference on Emerging Trends in Engineering (ICETE), 22nd & 23rd March 2019, University College of Engineering, Osmania University, Hyderabad, Published as chapter in Springer Book (August-2019).
5. **Dr.S.Praveena**, “**Design of IOT Sensors Expert System for Identification of Naturally Ripened Mango**”, National Convention of Agricultural Engineers, Institute of Engineers, Tripura, India, on 10th & 11th August 2019.
6. **Dr.Ch.Raja**, “**Analysis and Preparation of Radar Signal Intelligence Maps for Creating Electronic Order of Battle (EOB) records**”, Journal of Information and Computational Science, Volume: 9, Issue:12, December 2019, PP:1032-1036, ISSN NO: 1548-7741.

GUEST LECTURES

S.NO	TOPICS DELIVERED	RESOURCE PERSON/ORGANISATION	DATE
1	Digital trends & Technologies	Mr.Sreenivasa Vivekanand M/s TCS Senior consultant	24-07-19
2	Internet of things and python	Ms.Sujatha verma & Ms.Jhansi Rani	31-07-19
3	Future Skills-2030	Dr.Srinivas Perla M/s Cyient	08-08-19
4	Career Avenues in india and abroad	BYJU's	28-08-19
5	Higher education opportunities in France	Ms.Vasudha muralikrishna	06-09-19
6	Career Opportunities for Engineers	Dr.E.Muneender NIT Warangal	27-09-19
7	Internship awareness	M/s Career launcher	30-10-19

WORKSHOPS/COURSES ATTENDED BY FACULTY

S. No.	Faculty	Details of Workshops/Courses	Place	Date	Duration
1.	Dr.S.Srinivasa Rao	One week FDP on “Recent Trends in SoC Design & its Applications”	Vasavi College of Engineering	9 - 14th December 2019	7 Days
2.	Mrs.G.Srilatha	One week FDP on “Recent Trends in SoC Design & its Applications”	Vasavi College of Engineering	9 - 14th December 2019	7 Days
3.	Mr.A.Bala Raju	FDP on “Team Building”	Sphoorthy Engineering College & ICT Academy	19 - 21st December 2019	3 Days
4.	Dr.S.Srinivasa Rao	Attended Conference on “IETE National invited Speakers Conference on IOT for Real World Applications”	GNITS Hyderabad	20th December 2019	1Day
5.	Mr.B.Kesava Rao	Attended Conference on “IETE National invited Speakers Conference on IOT for Real World Applications”	GNITS,Hyderabad	20th December 2019	1Day
6.	Mr.K.Bapayya	Attended Conference on “IETE National invited Speakers Conference on IOT for Real World Applications”	GNITS Hyderabad	20th December 2019	1Day
7.	Mr.A.Veerabadra Rao	2 Day Workshop on “Lamakaan Radio Club Annual Meet”	MJ College Banjarahills Hyderabad	21st & 22nd December 2019	2 Days
8.	Dr.S.Srinivasa Rao	One day Seminar on “Embedded ‘C’ Programming with ARM Cortex”	Kernel Masters Pvt. Ltd., Hyderabad	28th December 2019	1Day
9.	Mr.B.Kesava Rao	One day Seminar on “Embedded ‘C’ Programming with ARM Cortex”	Kernel Masters Pvt. Ltd., Hyderabad	28th December 2019	1Day
10.	Mr.K.Bapayya	One day Seminar on “Embedded ‘C’ Programming with ARM Cortex”	Kernel Masters Pvt. Ltd., Hyderabad	28th December 2019	1Day

WORKSHOPS/ COURSES ATTENDED BY FACULTY CONTD...

S. No.	Faculty	Details of Workshops/Courses	Place	Date	Duration
11.	Mr.B.Kesava Rao	FDP on "Advanced Antenna Pattern Synthesis And Beam forming With Computational Intelligence"	NIT, Warangal	12 - 17th November 2019	6 Days
12.	Mrs.Archana Yadav	Workshop on "Recent Advances in Antennas & Microwave Circuits with Applications & Simulation Studies"	Matrusri Engineering College Hyderabad	18 - 20th November 2019	3 Days
13.	Mr.K.Bapayya	Guest Lecture on "Artificial Intelligence and Machine Learning Algorithms in Edge Computing and Applications to Internet of Things"	MGIT Hyderabad	23 rd November 2019	1 Day
14.	Dr.V.Saidulu	"Microwave Theory and Techniques"	NPTEL Online Certification	July-Oct 2019	12 Week course
15.	Mrs.G.Madhavi	"Digital Image Processing"	NPTEL Online Certification	July-Oct 2019	12 Week course
16.	Mrs.M.Chandrakala	"Switching Circuits and Logic Design"	NPTEL Online Certification	July-Oct 2019	12 Week course
17.	Mrs.S.Praveena	"Switching Circuits and Logic Design"	NPTEL Online Certification	July-Oct 2019	12 Week course
18.	Mr.A.Veerabhadra Rao	"Computational Electromagnetics"	NPTEL Online Certification	July-Oct 2019	12 Week course
19.	Mr.D.V.S.N.Kumar	"Digital Image Processing"	NPTEL Online Certification	July-Oct 2019	12 Week course
20.	Mrs.D.Subhashini	"Introduction to Research"	NPTEL Online Certification	Aug-Oct 2019	8 Week course
21.	Mrs.P.Durga Devi	"Digital Image Processing"	NPTEL Online Certification	July-Oct 2019	12 Week course
22.	Ms.A.Navaneetha	"Op-Amp Practical Applications: Design, Simulation and Implementation"	NPTEL Online Certification	July-Oct 2019	12 Week course

WORKSHOPS/ COURSES ATTENDED BY FACULTY CONTD...

S. No.	Faculty	Details of Workshops/Courses	Place	Date	Duration
23.	Mrs.P.Usha Rani	“Microelectronics: Devices to Circuits”	NPTEL Online Certification	July-Oct 2019	12 Week course
24.	Mr.G.Ravi Kumar	“Microelectronics: Devices to Circuits”	NPTEL Online Certification	July-Oct 2019	12 Week course
25.	Mrs.Archana Yadav	“Microwave Theory and Techniques”	NPTEL Online Certification	July-Oct 2019	12 Week course
26.	Mr. K.Bapayya	Mentor for Team (AI based Mobile Application for Rice Pest Detection), ACI Challenge, 3-Day Hackathon		10-11-2019	1Day
27.	Mr.D.V.S.Nagendra Kumar	FDP on “Designing with Zync SoC and its applications”	JNTUH	16th to 18th October 2019	3Days
28.	Mr.K.Raghu	One Day Workshop on “Access to Research Process Schools of Thoughts”	CBIT	18/10/19	1 Days
29.	Mr.B.Kesava Rao	One Day Workshop on “Access to Research Process Schools of Thoughts”	CBIT	18/10/19	1Days
30.	Mr.D.V.S.Nagendra Kumar	One Day National Seminar on “IOT for Real World”	CBIT	28/10/19	1Days
31.	Mr.B.Kesava Rao	One Day National Seminar on “IOT for Real World”	CBIT	28/10/19	1Days
32.	Mr. M.Naga Sitharam	One Day National Seminar on “IOT for Real World”	CBIT	28/10/19	1Days
33.	Mr. K.Bapayya	One Day National Seminar on “IOT for Real World”	CBIT	28/10/19	1Days

STUDENTS ACHIEVEMENTS

STUDENT PLACEMENTS (JULY 2019 - DECEMBER 2020)

Sl.No.	Company	Designation	CAMPUS DATE	Pay Package (Rs. In Lakhs per Annum)	ECE
1	Deloitte	GTI/ITS CANADA/CMG	22.07.2019	4.13	1
2	Hyundai Mobis	Graduate Engineering Trainee	23.07.2019	5.00	1
3	ALLPS (iPropal)	IT Developer	09.08.2019	5.0 - 7.0	1
4	TCS	Software Engineer	11.08.2019	3.85	16
5	Byju's	Business Development Associate	16.08.2019	10.00	1
6	Hysoc	Graduate Engineering Trainee	16.08.2019	3.50	3
7	L&T Infotech	Graduate Engineering Trainee-I	21.08.2019	3.50	4
8	TCS	Software Engineer	21.08.2019	3.85	7
9	Cognizant	Software Engineer	01.09.2019 & 08.09.2019	4.50	10
10	GGK Tech	Trainee Software Engineer	05.09.2019	5.00	2
11	Mindtree	Software Engineer	06.09.2019	3.5	1
Total					47

WORKSHOPS / TECHNICAL ACHIEVEMENTS

S.NO.	Name of the student	Details of Workshop/ event	Organization	Date/ achievement
1	S V SS N Naga seshasaikollepara (18261A04E6)	Internship	IIT Delhi Rendezvous	Campus Ambassador 17-08-2019
2	S V SS N Naga seshasaikollepara (18261A04E6)	Internship	Internship	13-09-2019
3	M.venkatanagaUmesh (18261A04H3)	C language	Naresh Technologies	Course completion Jan 2019
4	M.venkatanagaUmesh (18261A04H3)	Course in japanies	Railway quoters, secunderabad	Course completion 27-5-2019 to 22-6- 2019
5	M.venkatanagaUmesh (18261A04H3)	Course in japanies-III	Hyderabad	Course completion 06-07-2019 to 31- 07-2019
6	Ch.paramesh (19261A0465)	Aliensfest 4.0	GITAM,hyderabad	29-10-2010 TO 30-10-2020
7	m.devesh (19261A0493)	ATMOS	GITAM,hyderabad	29-10-2010 TO 30-10-2020
8	S. devasri ((19261A04B1)	Aliensfest 4.0	GITAM,hyderabad	29-10-2010 TO 30-10-2020
9	k.preranareddy (19261A0476))	Aliensfest 4.0	GITAM,hyderabad	29-10-2010 TO 30-10-2020
10	M.kusumasri ((19261A0494)	Aliensfest 4.0	GITAM,hyderabad	29-10-2010 TO 30-10-2020
11	D.shivani ((19261A04B4)	Aliensfest 4.0	GITAM,hyderabad	29-10-2010 TO 30-10-2020
12	T.v.sathvika (19261A04B6)	Aliensfest 4.0	GITAM,hyderabad	29-10-2010 TO 30-10-2020
13	M.kusumasri ((19261A0494)	ELECTRONIC BUZZ	GITAM,hyderabad	29-10-2010 TO 30-10-2020

ALUMNI ACHIEVEMENTS

Details of Alumni Reunion Meet (REMINISEENCE) on 28th December, 2019

S.No.	Name of the Student	Roll No.	Year of Graudation	Present Affiliation
1	G. Naga Nithesh	15261A04777	2019	Job search
2	Sakshi maghnani	15261A04H1	2019	MS in CSU, USA
3	B.Saicharan	09261A0463	2013	Consultant, Infosys
4	Gaurav Panwar	09261A0475	2013	Network programmer, NMSU
5	KVS Bharath	15261A04E5	2019	Web developer, Space well
6	K Sai pramod goud	15261A04E7	2019	Associate engineer,Ctrls data centers
7	G.Sai sumanth	16265A0428	2019	Job serach
8	S Raghu prudhvi raj	09261A04A7	2013	CAD engineer, Micron Technology
9	A.vijay kumar	12261A0403	2016	Business operations Associate, Accenture
10	A.Abhilash	10261A0463	2014	Software engineer, INFOR Pvt ltd
11	P.Soumya	12261A0445	2016	Systems Engineer, Verizon
12	S.Ramu	12261A0448	2016	Systems Engineer, Verizon
13	Payyavula sandeep	10261A04A5	2014	Signalling&Telecom engineer, RITES Ltd.
14	J.Shivakumar	10261A0483	2014	Clerk, Andhra bank
15	P .Aditya	0961A0445	2013	Software engineer, Teradata
16	D.Manoj Reddy	12261A04D3	2016	Cloud big data developer, Capital one
17	P.Avinash	12261A04C4	2016	Member of technical staff, Saankhya labs
18	N. Moses prabhakar	12261A04F9	2016	Soc design engineer, intel

EVENTS ORGNAZIED BY THE DEPARTMENT

Co-Curricular Activities –III Year ECE

S.No.	Date	Event Name	No. of Students participated
1.	19/07/19	Student Interaction	75
2.	26/7/19	Online Aptitude Test	51
3.	09/08/19	Online Aptitude Test & Online test on Digital Electronics	55
4.	30/08/19	Online Aptitude Test	45
5.	06/09/19	1. Online Aptitude Test & Online test on Analog Electronics (3 ECE 1&3) 2. Just a Minute (3ECE2)	1. 24 – 3 ECE-1 students participated 2. 20 – 3 ECE-3 students participated 3. 38 – 3 ECE-2 students participated
6.	20/09/19	1. Group Discussion (3 ECE 1&3) 2. Mock GATE Test & Training on IOT (3 ECE2)	1. 15 – 3 ECE-1 students participated 2. 21 – 3 ECE-3 students participated 3. 26 – 3 ECE-2 students participated
7.	20/09/19	Training on IOT	18
8.	21/12/19	Interaction with Students	12

Co-Curricular Activities –II Year ECE

S.No.	Date	Event Name	No. of Students participated
1.	19/07/19	Student Interaction	30
2.	21/09/19	Training on IOT	28
3.	25/09/19	Training on IOT	18
4.	21/12/19	Interaction with Students	18

FORTHCOMING EVENTS

S.No.	Tentative Date	II Year - Activity	III Year - Activity
1	11/01/20	Role Play	Group Discussion
2	18/01/20	Online Aptitude Test	Mock Aptitude Test
3	25/01/20	Group Discussion	Test in C Programming
4	08/02/20	Puzzle Solving	Debate
5	10/02/20	MICROCOSM-2020	
6	15/02/20	Seminar on General Topic	Mock Interview by Alumni
7	22/02/20	Test on Technical Subjects	Technical Presentation
8	29/02/20	Test in C Programming	Mock interview
9	14/03/20	Test in General Awareness	Puzzle Solving
10	21/03/20	Problem Solving & Critical Thinking	Test in General Awareness
11	28/03/20	Aptitude Test (Off Line)	Programming Skills

PROGRAMME OUTCOMES (POs)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

13. Able to work in multidisciplinary project areas.
14. Able to design and carry out the experimental work, revise knowledge to meet the future industrial challenges.