MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
Dept. of Electronics and Communication Engineering
GANDIPET , HYDERABAD

NEWS LETTER
January 2019
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Department Of Electronics And Communication Engineering

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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 imbibed 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.Vinod Reddy

Mr. Anji Reddy

STUDENTS:

Ms. S. Pravalika

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, "Binary Overlay on Train of Pulses for Good Correlation Properties",** International Journal of Research (IJR), Vol-05, Issue-17, ISSN: 2348-6848, Impact Factor 5.60 July 2018.

2. **Dr. Ch. Raja**, **"Toll Plaza System Based On Vehicle Category Interface With Atmega32 Microcontroller"**, International Journal of Research and Analytical Reviews (IJRAR), E-ISSN: 2348-1269, P- ISSN: 2349-5138, Volume 5, Issue 3, Pp.217-221, July 2018, UGC No: 43602.

3. **Dr. S. Praveena, "Two Different Multi-Kernels for Fuzzy C-Means Algorithm for Medical Image Segmentation",** International Journal of Research (IJR), Vol-05, Issue-17, ISSN: 2348-6848, Impact Factor: 5.60, July 2018.

4. **Mr. D.V.S. Nagendra Kumar, "Automatic Segmentation of Retinal Blood Vessels",** International Journal of Research (IJR), Vol-05, Issue-17, ISSN: 2348-6848, Impact Factor: 5.60, July 2018.

5. **Mrs.G.Madhavi, "An Efficient Object Detection and Tracking System Based on Immune Genetic Algorithm",** accepted Research journal for Applied Science MEDWELL Journals 2018 **(Scopus)**.

6. **Mrs.G.Madhavi, "Object Detection and Tracking using Kalman Filter and Genetic Algorithm"**, International Journal of Management Technology and Engineering (IJMTE), Volume 8, Issue X, October 2018.

7. **Mrs.G.Madhavi, "Orthogonal Local Preserving Projection Based Pedestrian Detection and Tracking Using Hybrid Features and Support Vector Machine",** accepted International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-018, Volume 7, Issue 11, November 2018.

8. **Mrs.G.Madhavi**, **"Histogram of Oriented Gradient with Kalman Filter Approach for Object Detection and Tracking",** International Conference CITAES-2018, Gudlavalleru College of Engineering, Gudlavalleru, Gudiwada, Andhra Pradesh on 30th November & 1st December 2018.

GUEST LECTURES

S. No.	Topics	Details of Expert	Date
1.	**"Mentor minds and Service Now"**	Placement cell	19-07-18
2.	**"Placement talk"**	M/s GGK Technologies	27-07-18
3.	**"Free aptitude copy righted short cuts"**	M/s Anil Nair classes	31-07-18
4.	**"Gamer connect workshop"**	M/s Gamer connect	10-08-18
5.	**"Free aptitude copy righted short cuts"**	M/s Anil Nair classes	13-08-18
6.	**"Human mind and its effect on life"**	Mr. Anupam Sharma, SC-G, Project Director, DLRL, Hyderabad	04-09-18
7.	**"Pre-Placement talk"**	M/s Hyundai Mobis	26-09-18
8.	**"Pre-Placement talk"**	M/s UX REACTOR	27-09-18
9.	**"Pre-Placement talk"**	M/S Karvy	12-10-18
10.	**"Career Opportunities"**	Placement cell	24-10-18
11.	**"Pre-Placement talk"**	M/s Riktam Technologies	01-11-18
12.	**"Pre-Placement talk"**	M/s QSpiders	02-11-18
13.	**"Free aptitude copy righted short cuts"**	M/s Anil Nair classes	03-01-19

WORKSHOPS/COURSES ATTENDED BY FACULTY

S. No.	Faculty	Details of Workshops/Courses	Place	Date	Duration
1.	Dr. D. Venkat Reddy	Workshop on **"Artificial Intelligence and Signal Processing using MATLAB".**	Park Hyatt, Hyd.	5th Dec 2018	1 Day
2.	Mr .D.V.S.N.Kumar	Workshop on **"Artificial Intelligence and Signal Processing using MATLAB".**	Park Hyatt, Hyd.	5th Dec 2018	1 Day
3.	Mr .K. Raghu	Workshop on **"Artificial Intelligence and Signal Processing using MATLAB".**	Park Hyatt, Hyd.	5th Dec 2018	1 Day
4.	Mrs.G.Srilatha	PMMMNMTT sponsored **"Orientation Programme".**	Mahatma Ganadhi National Council of Rural Education Dept. of Higher Education Govt. of India Hyd.	01 - 30 Nov 2018	4 Weeks
5.	Mr .D.V.S.N.K umar	Mentor forum for Emulation 2018 India	Hyatt Place,Hyd.	20th Nov 2018	1 Day
6.	Dr.T.R.Vijaya Lakshmi	**"Introduction to Machine learning"**	NPTEL Online	Aug - Oct 2018	8 Weeks
7.	Mrs. P .Dugra Devi	**"Principles of Digital Communications"**	NPTEL Online	Aug - Oct 2018	12 Weeks

STUDENTS ACHIEVEMENTS

STUDENT PLACEMENTS (AS ON DECEMBER 2018):

Sl. No.	Company	Designation	Date	Pay Package(L)	No. of Placements
1.	GGK Technologies	Trainee Software Engineer	27-07-2018	4.00	1
2.	Modak Analytics	Software Engineer Trainee	02-08-2018	3.00	4
3.	ABC for Tech	Trainee Engineer	08-08-2018	4.20	6
4.	DataBeat	Ad Operations Analyst Intern	29-08-2018	1.80	1
5.	TCS	Assistant System Engineer-Trainee	15-09-2018	3.37	17
6.	Cognizant	Assistant System Engineer-Trainee	16-09-2018	3.70	1
7.	Raam Group	Business Trainee/Sales Trainee/Technical Trainee	19-09-2018	1.8-3.60	4
8.	CTRLs	Graduate Trainee	24-09-2018	3.75	4
9.	HYUNDAI MOBIS	Graduate Engineering Trainee	26-09-2018	4.00	1
10.	ZenQ	Software Engineer	29-10-2018	-	2
11.	EdWisor	Business Developer	29-10-2018	3.50	2
12.	Industry Arc	Data Analyst	30-10-2018	2.60	2
13.	Rythmos	Junior Associate Consultant	31-10-2018	2.4 - 5.0	1
				Total	46

ACADEMIC ACHIEVEMENTS

Name of the Student	GRE (340)	TOEFL (120)	GATE Rank	CAT/SNAP (Percentile)	Any Other(IELTS)
Mr. R.Indu Priya (15261A04A7)	300				7.5
Mr. P.Koushik (15261A04A4)	301				7.5
Mr. Luckypreetham Raj (15261A0491)				60.00	
Mr. P.Koushik (15261A04A4)				65.00	
Mr. A.Tanmay Krishna Reddy (15261A04C3)	88				
Ms. R.Meenakshi (15261A04G6)	306				6.5
Mr. Abhilash (15261A04C1)				97.9	
Mr. K.Jeevith (15261A04E3)					7 .5
Mr. M.Shiva Kumar (15261A04H0)					6.5
Mr. Chakravarthy (15261A04H2)				93.1	
Ms. Sakshi (15261A04H1)					7
Ms. CH.Sanisha (15261A0408)				79.12	
Ms. Divya (15261A0468)				83.00	

SPORTS ACHIEVEMENTS

S. No.	Name of The Student	Year	Event	Prize	Date / Place
1.	Krithi C Parikh (17261A04F3)	2nd	Volley ball	First Prize (winners)	MGIT,Hyderabad
2.	Krithi C Parikh (17261A04F3)	2nd	Cricket	First Prize (winners)	MGIT,Hyderabad
3.	Krithi C Parikh (17261A04F3)	2nd	Lawn Tennis	First Prize	Mahindra Ecole Centrale
4.	K.V.N.Phanidhar (17261A04E6)	2nd	Table Tennis (double)	First Prize	MGIT,Hyderabad
5.	K.V.N.Phanidhar (17261A04E6)	2nd	Table Tennis	First Prize	Mahindra Ecole Centrale
6.	Adhrusta (17261A04C2)	2nd	Basket ball	Participation	Indira Memorial
7.	G.Eswar (17261A0415)	2nd	Basket ball	Participation	CVR College
8.	G.Eswar (17261A0415)	2nd	Basket ball	Participation (Semi finals)	CBIT College
9.	G.Eswar (17261A0415)	2nd	Basket ball	Participation (Semi finals)	BITS College
10.	Nikhil Pullela (16261A04A0)	3rd	Foot Ball	Participation	BITS,PILANI Hyd.
11.	Nikhil Pullela (16261A04A0)	3rd	Foot Ball	Participation	CMR Hyderabad
12.	Nikhil Pullela (16261A04A0)	3rd	Foot Ball	Participation	Mahindra Encole centrale
13.	B.Saidulu (16261A0463)	3rd	Kabaddi	Participation	Khelo Hyderabad
14.	E.Eswar (16261A04D3)	3rd	Kabaddi	Participation	MGIT,Hyderabad
15.	Sruthi.s.Kumar 15261A04B1	4th	Volley ball(inter college)	Participation	6/9/18 to 8/9/18/ BHEL
16.	G.Naveen 15261A04D5	4th	Basket ball	Participation	BITS pilani ARENA-18
17.	G.Naveen 15261A04D5	4th	Basket ball	Participation	BITS pilani ARENA-18

WORKSHOPS/TECHNICAL ACHIEVEMENTS

S.NO.	Name of the student	Details of Workshop/ event	Organization	Date/ achievement
1	Mohd Junaid Ahmad(17261A0486)	Live project	MGIT, Hyderabad	19-07-2018 Participation
2	A. Dhanush (17261A04C1)	workshop	IIT, Hyderabad	19/01/19 to 20/1/19 Participation
3	B.Meghasarvani(17261A04C9)	workshop	IIT, Hyderabad	19/01/19 to 20/1/19 Participation
4	B.Sanjana Reddy(16261A04C9)	Internshala student Partner	ISP-II	September t0 November 2018
5	G.Rajavardhan Reddy(16261A04E0)	Internship	BHEL	07-06-2018
6	N.Rishitha(16261A0446)	SP	MGIT	Participation
7	A.Manasa(16261A0438)	Vice chairperson	Youth Assembly	Certificate
8	A.Manasa(16261A0438)	Associate vice president	MGIT	participation
9	B.Manasa(16261A0403)	Volunteer for street cause	MGIT	Participation
10	Amareswar(16261A0431)	CSI-ideathon		First prize
11	Amareswar(16261A0431)	TEchquiz	MGIT	Second prize
12	k.anand Ramya(16261A0427)	TEchquiz	MGIT	Second prize
13	Rachel(15261A0471)	Poetry writing competition	VBIT	Participation 01/10/2018
14	Srinija(15261A0495)	Electronics	Grant thornton LLP	Internship
15	Ramya.Waddepally(15261A04B8)	Electronics	MCS Solution	Internship 16/01/2019
16	Pillamari Koushik(15261A04A4)	Electronics	Data Beats	Internship 29/11/2018
17	Veda Smrithi Katam(15261A04H8)	Electronics	Industry Arc	Internship 23/11/2018
18	Uday Bannaravuri(15261A04C5)	Electronics	RAAM Group	Internship 29/10/2018
19	NV Srikanth(15261A04G2)	Electronics	RAAM Group	Internship 29/10/2018
20	K.V.S Bharat(15261A04E5)	Electronics	MCS Solution	Internship 16/01/2019

WORKSHOPS/TECHNICAL ACHIEVEMENTS CONTD..,

S.NO	Name of the student	Details of Workshop/ event	Organization	Date/ Achievement
21	AravindaLasyaINdukri (15261A0480)	Electronics	GGK Technologies	Internship 16/01/2019
22	K.Sai pramod (15261A04E7)	Electronics	CTRL-S	Internship 13/12/2018
23	R.Minakshi(15261A04 G6)	Electronics	CTRL-S	Internship 22/01/2019
24	V.Vaishnavi (15261A04H5)	Electronics	RAAM Group	Internship 16/01/2019
25	Betapudi Pragnya(16261A0426)	Electronics	Industry Arc	Internship 07/01/2019
26	A.Bala alekya (16261A0413)	Electronics (Automatic engine locking system during drunk and drive)	ECIL	Internship 25/06/2018
27	A.Bala alekya (16261A0413)	Electronics	ETDC	Internship 25/06/18 to 24/06/18
28	Y.Jaya shree (15261A04B9)	Electronics(Wifi based device control)	ECIL	Internship 11/06/2018
29	Y.Jaya shree (15261A04B9)	NPTEL (online certification programming in C)	ONLINE	Aug-Oct 2018 (8 week course)
30	Y.Jaya shree (15261A04B9)	NPTEL(online certification in Advanced linear continuous control system)	ONLINE	Aug-Oct 2018 (8 week course)

ALUMNI ACHIEVEMENTS

List of alumni participated in the alumni meet held on 29th December 2018.

S. No	Name Of the Alumni	Class	Designation & Name of the Company
1	Mr. Vishal	2005	Tech Mahindra
2	Mr. Praneeth Reddy	2005	Business
3	Mr. S. R. Dakshina Murthy	2006	MTS, DIAMANTI
4	Mr. U. Saikumar	2009	Sr.Analyst, Accenture
5	Mr. G. Siddhartha	2009	Sr.Manager, Capgemini
6	Mr. R. Abhilash	2010	Consultant, HSBC
7	Mr. Y. Raviteja	2012	Sr.Business Analyst,CTS
8	Mr. P. Mahesh	2012	Infrastructure Engineer, Franklin Templeton
9	Mr. G. Sai Prashanth	2012	Automation Engineer, TCS
10	Mr. K. Ramakrishna	2016	QA analyst, MAIT solutions Pvt. Ltd.
11	Mr. Pavan A.	2016	Assistant System Engineer, Oracle
12	Mr. K. Yogeshwar	2016	System Engineer, TCS
13	Ms. P. Sowmya	2016	Assistant System Engineer, TCS
14	Mr. Y. Chiranjeevi	2016	System Engineer, TCS
15	Mr. S. Ramu	2016	System Engineer, TCS
16	Mr. B.Maniprasanna Kumar	2016	Security analyst, UTC
17	Mr. B. Santhosh Kumar	2016	System Engineer, TCS
18	Mr. Sanjay Kumar	2017	Assistant Engineer,ECIL
19	Mr. Ashok Kumar	2017	System Engineer,TCS
20	Mr. Yashasvi Samuel	2018	M.Tech, HCU, Hyd
21	Ms. G. Nikitha	2018	Assistant engineer
22	Ms.TejaSri	2018	Veda IIT

INVITED LECTURES DELIVERED

1. **Dr. T. D. Bhatt,** Delivered a Lecture on **"Electromagnetic Theory and Applications"** at Guru Nanak Institute of Technology, Hyderabad on 03 July 2018.

2. **Dr. S. P. Singh**, Delivered a Lecture **on "Digital Communications and Applications"** at CMRCET, Hyderabad on 20 September 2018**.**

EVENTS ORGANIZED BY THE DEPARTMENT

S.No.	Class	Event	Date	No. of Participants
1	III Year ECE	Just Two Minutes	14/7/18	16
2	III Year ECE	Letter Writing	21/7/18	9
3	III Year ECE	Technical Quiz	11/8/18	111
4	III Year ECE	Debate	18/8/18	54
5	III Year ECE	Aptitude Test	25/8/18	8
6	Faculty & Staff	Two days Faculty Training programme on **"IOT using Arduino and Raspberry – Pi".**	20-21 Dec 2019	50

FORTHCOMING EVENTS

II Year ECE

S.No.	Event Name	Date of Event
1	Just A Minute	29/12/18
2	Electronic Spell bee	12/1/19
3	Technical Quiz	19/1/19
4	Aptitude & Quantitative Test	9/2/19
5	New Inventions on Electronics	23/2/19
6	IT sector Review	9/3/19
7	Perception on Current Topics	16/3/19
8	Group Discussions	23/3/19
9	Mock Interviews	30/3/19

III Year ECE

S.No.	Name of the Topic	Date
1	• Importance of C language in placements (C) • Point processing on images (ISP) • Arduino Interfacing: LED, RGB, Basic Sensors (IoT) • GATE classes on Signals and Systems	9/1/19
2	• Processing of Speech signals, Upsampling and Downsampling on images (ISP) • Interfacing: LDR, LM-35, 7-SEG, MQ2, Ultrasonic(IoT) • GATE classes on Digital Circuits • Basics: Constants, Variables, Data types & Operators (C)	16/1/19 & 23/1/19
3	• Spatial Enhancement techniques (ISP) • Interfacing: DC/ Stepper Motor, Reed Switch (IoT) • GATE classes on Electromagnetics • Managing input and output operations (C)	30/1/19
4	• Frequency Enhancement techniques (ISP) • Interfacing: Bluetooth / GSM to end sensor (IoT) • GATE classes on Networks • Decision making: Branching and looping (C)	6/2/19
5	• Image compression using DCT and DWT (ISP) • WiFI based Sensor Data Acquition and IoT control (IoT) • GATE classes on Analog circuits • Strings and arraysUser defines functions in C, Pointers	13/2/19
6	• Median and Wiener filtering (ISP) • **Sample Project work-** Sensor Interfacing based IOT with Real Time Application (IoT) • GATE classes on Control systems • Structures and Unions Pointers (C)	27/2/19
7	• **Case study** on Speaker Emotion Recognition (ISP) • Raspberry Pi- Python basics, Sensor Interfacing (IoT) • File management in C	6/3/19
8	• Morphological operations, **Case study** on Face Recognition (ISP) • **Raspberry Pi based Image Processing:** Image Negative, Contrast, RGB, Histogram, Edge, Filtering (IoT) • Dynamic Memory Allocation (C)	13/3/19
9	• **Case study** on Invisible Water marking using FIS (ISP) • **Raspberry Pi based Algorithm Implementation:** Face Recognition, Multi scale Human Detection (IoT)	20/3/19
10	• **Case study** on Brain Tumor Segmentation (ISP) • **College Case Study:** Student idea implementation (IoT)	27/3/19

ISP – Image and Speech Processing
IoT – Internet of Things

HoD, Staff and Students during the ALUMNI meet on 29th December 2018

ALUMNI interacting with Students of ECE during ALUMNI meet on 29th December 2018

Prof. K. Jaya Sankar, Principal addressing the staff during inauguration **of** Two days Faculty Training programme on **"IOT using Arduino and Raspberry – Pi"** on 20th December 2018.

Prof. S. P. Singh, HoD delivering a lecture on **"Arduino"** during Two days Faculty Training programme on **"IOT using Arduino and Raspberry – Pi"** on 20th December 2018

Mr. K. Bapayya, Assistant Professor delivering a lecture on **"IoT"** during Two days Faculty Training programme on **"IOT using Arduino and Raspberry – Pi"** on 20th December 2018.

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.