



# MAHATMA GANDHI INSTITUTE OF TECHNOLOGY GANDIPET, HYDERABAD

Dept. 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 imbued with ethical and moral values that leads to collective global success.

## Mission Statement:

**M1:** To inspire and motivate the students to acquire knowledge to develop and serve the industry and society with great zeal.

**M2:** To impart value based technical education of global standards and transform the students into disciplined, talented citizens of impeccable character.

**M3:** Fused the students with hands on training to make them good entrepreneurs.

**M4:** 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.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

### International Journals:

1. N. Srinivas, **Dr. K. Jaya Sankar** and Dr. M.V. Ramana Murthy, **"A Novel Hybrid Deep Learning on Audio-Video Information Analysis Engine (AVIAE) from Internet for Capturing Videos"** Jour of Adv Research in Dynamical & Control Systems, Vol.12, 01-Special Issue, 2020.
2. **Dr. S.P. Singh**, **"Side Lobes Reduction Technique For Binary Codes"**, International Journal of Advanced Science and Technology, SERSC Journals, June 2020 (Acceptance Journal)
3. Dr.S.Praveena, **Dr. S.P.Singh**, **"Sparse-FCM and Deep Convolutional Neural Network for the segmentation and classification of accute lymphoblastic leukemia"** in Biomedical Engineering – SCIE Journal, 2020. ISSN: 0013-5585, (acceptance Journal) **(UGC Care) Impact Factor:1.007**
4. E.N.V. Purna Chandra Rao and **Dr. S.P. Singh**, **"Orthogonal One Twenty Phase Sequence Sets Design Using MGA"**, Test engineering and management, Volume 82, January-February 2020, ISSN: 0193-4120, Page No. 8473 —8478.
5. Koduri Kavya sri and **Dr S.P. Singh** **"Implementation of Poly Phase Sequence Design Using VERILOG"**, CIKITUSI Journal for Multidisciplinary Research, Volume 7, Issue 1, ISSN NO: 0975-6876, January 2020, pp 18-21.
6. **Dr. D.Venkat Reddy**, V.V.Satyanarayana, K.Raghu, Venkat Naresh **"Hybrid tone mapping with structural and edge preserving priors"**, International journal of advanced science and technology, volume 27, NO 7, (2020), pp 5135-5143. **(UGC Care & Scopus) Impact Factor: 0.41**
7. **Dr. D.Venkat Reddy**, V.V.Satyanarayna, V.S.N kumar Devaraju, **"Early detection of diabetic retinopathy using Image net"** Journal of critical reviews. Accepted for publication-June 2020. **(UGC Care & Scopus) Impact Factor: 5**
8. **Dr.T.D.Bhatt**, **"Construction of Perfect Periodic Binary Sequences for Radar Applications"**, International Journal on Emerging Technology 11(2): 662-667 (2020), ISSN: 2249-3255, April 2020.**(UGC & Scopus Indexed) Impact Factor: 3.1**
9. **Dr. T. D. Bhatt** and M. Anusha, **"Phase Coded Waveforms for Pulse Compression Radar Systems"**, International Journal on Emerging Technology. (Accepted for publication) **(Scopus Indexed)**
10. **Dr. Ch.Raja**, **"Literature Review On Compressive Sensing Of Images Using Partial Canonical Identity (Pci Matrix)"**, Mukta Shabd Journal, Volume IX, Issue V, MAY 2020, PP:1939-1944, ISSN NO: 2347-3150, **Impact factor: 4.6, UGC CARE.**
11. **Dr. Ch. Raja**, **"Analysis and Design of Passive Phase Shifter for Reflection Phase Characteristics"**, Compliance Engineering Journal, Volume 11, Issue 5, May 2020, PP: 214-217.ISSN NO: 0898-3577, **Impact factor: 6.2, UGC CARE & SCOPUS.**
12. **Dr.Ch.Raja**, **"Recognition Of Speech Emotion Using Naïve Bayes Classifier"**, AEJAEUM Journal, Volume: 8, Issue: 6, June 2020, PP:1178-1182, ISSN NO: 0776-3808, **Impact factor : 6.2, UGC CARE & SCOPUS.**

## FACULTY PUBLICATIONS CONTD...

13. V. Subba Ramaiah, S. Srinivasa Rao, V.S.N.Kumar Devaraju, **"Speaker Diarization based on Black-Hole Entropy Fuzzy Clustering using Cepstral Features"**, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-9 Issue-4, April 2020. DOI: 10.35940/ijeat.D7832.049420. Impact factor : 6.02, UGC CARE & SCOPUS.
14. Dr.S.Srinivasa Rao, V.Subba Ramaiah, K.Raghu, **"Energy Efficient Routing in IoT Based on Chronological Atom Search Optimization"**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9, Issue-4, February 2020. DOI: 10.35940 /ijite .D1546.029420. Impact factor: 6.032, UGC CARE & SCOPUS.
15. Dr.V.Saidulu, **"Design, Simulation and Experimental Analysis of Square Microstrip Patch Antenna with Superstrates at 2.4GHz"**, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume – 9, Issue – 1, May-2020. Impact factor : 0.41, UGC CARE & SCOPUS.
16. Dr.V.Saidulu, **"Design of Inset Feed Rectangular Microstrip Patch Antenna with Different Dielectric Substrates"**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume -9, Issue-5, March 2020. Impact factor : 6.03, UGC CARE & SCOPUS.
17. Dr.V.Saidulu, **"Studying the Effect of Radomes on Microstrip Patch Antennas Using Different Dielectric Substrates Constants"**, International Journal of Advanced Science and Technology, ISSN: 2005-4238, Vol. 29, No.6, pp. 5830 – 5839, 2020. Impact factor : 0.41, UGC CARE & SCOPUS.
18. Dr.V.Saidulu, **"Design, Simulation and Experimental Analysis of Rectangular Microstrip Patch Antenna with Superstrates"**, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958, Volume – 9, Issue – 3, February-2020. Impact factor : 5.97, UGC CARE & SCOPUS.
19. V. Subba Ramaiah, S. Srinivasa Rao, V.S.N.Kumar Devaraju, **"Speaker Diarization based on Black-Hole Entropy Fuzzy Clustering using Cepstral Features"**, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-9 Issue-4, April 2020. DOI: 10.35940/ijeat.D7832.049420. Impact factor : 6.02, UGC CARE & SCOPUS.
20. Dr. D.Venkat Reddy, V.V.Satyanarayana, V.S.N kumar Devaraju, **"Early detection of diabetic retinopathy using Image net"** Journal of critical reviews. Accepted for publication-June 2020. (UGC Care & Scopus) Impact Factor: 5
21. Dr. D.Venkat Reddy, V.V.Satyanarayana, K.Raghu, Venkat Naresh **"Hybrid tone mapping with structural and edge preserving priors"**, International journal of advanced science and technology, volume 27, NO 7, (2020), pp 5135-5143. (UGC Care & Scopus) Impact Factor: 0.41
22. Dr.S.Srinivasa Rao, V.Subba Ramaiah, K.Raghu, **"Energy Efficient Routing in IoT Based on Chronological Atom Search Optimization"**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9, Issue-4, February 2020. DOI: 10.35940 /ijite .D1546.029420. Impact factor: 6.032, UGC CARE & SCOPUS.
23. Dr.S.Praveena, Dr. S.P.Singh, **"Sparse-FCM and Deep Convolutional Neural Network for the segmentation and classification of acute lymphoblastic leukemia"** in Biomedical Engineering – SCIE Journal, 2020. ISSN: 0013-5585, (acceptance Journal) (UGC Care) Impact Factor:1.007



## FACULTY PUBLICATIONS CONTD...

24. Dr.B.Suresh Kumar, **Dr.S.Praveena**, K.Sindhu Priya, **“Modeling and Simulation of Linear Electro Mechanical actuator for Missile Application with high redundancy”** Mukta Shabd Journal Volume IX, Issue IV, APRIL-2020 ISSN NO: 2347-3150 pg: Page No: 1678-1684, **UGC care list -1, Impact Factor: 4.6.**
25. Ch.Venkata Krishna Reddy, **T.R.Vijaya Lakshmi**, **“GSM based Prepaid Electricity Energy meter”**, Sustainable Humanosphere, ISSN: 1880 - 6503, Volume: 16, Issue: 2, 2020. (**Scopus**), **Impact factor: 0.33.**
26. **J.Sneha Latha**, **“Design of Miniaturized Patch Antenna for ISM Band”**, Alochana Chakra Journal, ISSN No : 2231-3990, Volume IX, Issue VI, June 2020, Page No. 2810-2816. (**UGC Care**).
27. **D.Subhashini** and Dr. V. B. S. Srilatha Indira Dutt, **“A Review on Road Extraction based on Neural and Non-Neural Networks”**, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol.9, Issue 06, June - 2020, pp 1306–1309. DOI: <http://dx.doi.org/10.17577/IJERTV9IS061006>. **Impact Factor:7.87.**
28. **P. Usha Rani**, **“Segmented Depth Motion Map Assisted Human Action Recognition from Depth Action Videos”**, International Journal of Advanced Science and Technology (IJAST), Vol. 29, No. 8s, (2020), pp. 1850-1859. ISSN: 2005-4238, May 2020, SERSC Journals. (**UGC Care & Scopus**) **Impact Factor:0.41.**
29. **G.Srilatha**, **“On the Security of Wireless Sensor Networks through Trust Management Factor (TMF)”**, International Journal of Advanced Science and Technology (IJAST), Vol. 29, No. 8s, (2020), pp. 1839-1849. ISSN: 2005-4238, May 2020, SERSC Journals. (**UGC Care & Scopus**) **Impact Factor:0.41.**

### International Conferences:

1. M. Sushma Sri, B. Rajendra Naik, **Dr. K. Jaya Sankar**, **“Object Tracking using Motion Estimation based on Block Matching Algorithm”** 5th International Conference on Inventive Computation Technologies (ICICT 2020) organized by RVS Technical Campus during 26-28, February 2020 at Coimbatore, India.
2. **G. Madhavi**, Dr.A.Jhansi Rani, **“Histogram of Oriented Gradients with Kalman Filter approach for object Detection and Tracking”**, International Conference on Recent Advances in Computer Science and Information Technology (ICRACSIT), 8<sup>th</sup> March, 2020, Hyderabad.
3. B.Suresh Kumar, D Varun Raj and **Dr.S.Praveena**, **“Performance of BLDC motor for Enhancing the response of Antenna’s positioned using PI Controller”**, International Conference on Innovations in Electronics and Communications Engineering, Published Springer Nature Lecture Notes in “Networks and Systems”, 2020.
4. Swetha V, Hamsika M, **Dr. CH. Raja**, **“Application Of Internet Of Things (IoT) In Analysis Of Medical And Smart Healthcare Monitoring System”**, International Conference on recent advancements in Wireless Communications, Signal and Image Processing, organized by Chennai Institute of Technology, during 29-30 June 2020.

### National Conferences:

1. **Dr.V.Saidulu**, **“Design and Simulation of Inset Feed Rectangular Microstrip Patch Antenna for GPS Applications”**, National Conference on Recent Trends in Electrical Engineering – RTEE-20, 28<sup>th</sup> to 29<sup>th</sup> February 2020 organized by the department of EEE, MGIT, Hyderabad.

## **GUEST LECTURE CONDUCTED**

The Department is conducting guest lectures in different fields to enhance the knowledge of the students in the topics beyond the syllabus. The list of guest lectures conducted is given below.

### **Guest Lecturers for Academic year 2019 -2020**

<b>S.No.</b>	<b>TOPICS DELIVERED</b>	<b>RESOURCE PERSON/ORGANISATION</b>	<b>DATE</b>
1	Leadership qualities and personality development	R.K.Math, Hyderabad	10-01-20
2	Embedded Projects with Electronic Hardware and Firmware	Mr. Srinivasu Batchu, Engineering Manager, Amphenol Interconnect India Pvt. Ltd., Hyderabad.	19 -02-20
3	Webinar on Clock domain crossing Techniques and clock gating design(VLSI)	Pantech e Learning	14-06-20

## NUMBER OF FDP/STTP/WEBINARS/COURSES ATTENDED

S. No.	Faculty	FDP	STTP	Webinar/ Seminar/ Workshop	MOOCS/ NPTEL Courses	COURSERA Courses	Any other Courses
1.	Dr.S.P Singh, Professor & HoD, ECE Dept	2		88		9	
2.	Dr.D.Venkat Reddy, Professor	3		11		3	
3.	Dr.T.D.Bhatt, Professor	4		37		2	
4.	Dr.Ch.Raja, Assoc. Professor	13	1	36		3	
5.	Dr.S.Srinivasa Rao, Assoc. Professor	15		24	2	3	
6.	Dr.M.Fayazur Rahaman, Assoc. Professor			3	4	19	
7.	Mrs.G.Madhavi, Assistant Professor	4		17	1	2	
8.	Dr.V.Saidulu, Assoc. Professor	19		37	1		
9.	Mr.K.Raghu , Sr.Asst. Professor	19		35		4	
10.	Mr.D.V.S.Nagendra Kumar, Assistant Professor	6	2	22	1	1	
11.	Mrs.M.Chandrakala , Assistant Professor	6		8		5	
12.	Mr.A.Veerabhara Rao, Assistant Professor	4		8	1	2	
13.	Dr.S.Praveena, Assistant Professor	6	1	4		4	
14.	Mrs.D.Subhashini, Assistant Professor	9		8		4	1
15.	Mrs.J.Sneha Latha, Assistant Professor	7		11	1	4	
16.	Dr.T.R.Vijaya Lakshmi, Assistant Professor	2		6	1	8	4
17.	Mrs.P.Durga Devi, Assistant Professor	5		9		5	1
18.	Mr.B.Kesava Rao, Assistant Professor	8		18		4	
19.	Ms.A.Navaneetha, Assistant Professor	3		1			
20.	Mrs.G.Usharani, Assistant Professor	4		3	1	1	1

## NUMBER OF FDP/STTP/WEBINARS/COURSES ATTENDED BY FACULTY CONTD...

S. No.	Faculty	FDP	STTP	Webinar/ Seminar/ Workshop	MOOCS/ NPTEL Courses	COURSERA Courses	Any other Courses
21.	Mr.A.Bala Raju, Assistant Professor	3	1	15		1	
22.	Mrs.P.Usha Rani, Assistant Professor	9		15	1	1	3
23.	Mr.G.Ravi Kumar, Assistant Professor	4	5	11	1	1	
24.	Mrs.S.Swetha, Assistant Professor	4		3	1	2	
25.	Mr.M.Sanjeev Kumar, Assistant Professor	3		5	1	1	
26.	Dr.Y.Praveen Reddy, Assistant Professor	1		8	2	1	
27.	Mrs.B.Roopaa, Assistant Professor	2		9	1	10	
28.	Mrs.G.Sri Latha, Assistant Professor	5	1	11	2	1	1
29.	Mr.D.Anji Reddy, Assistant Professor	4		14		2	
30.	Mr.D.Sudhakar, Assistant Professor	2		6		2	3
31.	Mr.K.N.Mallesha, Assistant Professor	1		6		1	
32.	Mr.M.Naga Sitaram, Assistant Professor	7		18	1	1	
33.	Mrs.P.Shirisha, Assistant Professor	9		49	2	4	
34.	Mrs.Archana Yadav, Assistant Professor	2		15	1	2	1
35.	Mrs.Divya A Sagar, Assistant Professor	1	1	5		7	1
36.	Mr.P.Vinod Reddy, Assistant Professor	5		11		2	
37.	Mr.K. Bapayya, Assistant Professor	7		10		4	



## STUDENTS ACHIEVEMENTS

### STUDENT PLACEMENTS (AY: 2019-2020)

Sl. No.	Company	Designation	Date	Pay Package(L)	No. of Placements
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	9
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
12.	Muliplier Solutions	Data Analyst	19.09.2019	4	1
13.	Ctrl-s	Graduate Trainee	23.09.2019	3.75	1
14.	Modak Analytics	Data Analyst	27.09.2019	4	6
15.	NTT DATA	Trainee Software Engineer	12.10.2019	3	2
16.	A S Automation & Engineering Services Pvt Ltd	Core Engg	26.10.2019	2.4	4
17.	Wi2Wi	Intern Trainee	29.10.2019	3	3
18.	Cellerite	Engineering R & D	06.11.2019	3	2
19.	Hexaware	Software Engineer Trainee	11.11.2019	3	6
20.	Ademtek	Core Engineer	14.11.2019	2.4	7
21.	Wipro	Software Engineer	11.11.2019	3.5	1

## STUDENTS ACHIEVEMENTS CONTD...

### STUDENT PLACEMENTS (AY: 2019-2020)

Sl. No.	Company	Designation	Date	Pay Package(L)	No. of Placements
22.	IBM	Associate System Engineer	07,08 & 09.12.2019	4.25	2
23.	Prodapt Systems	Associate Software Engineer	21.12.2019	3.25	1
24.	Netcracker	Associate Software Engineer, Development	23.12.2019	5	1
25.	Creators Technologies	Web Developer	07.01.2020	2.75	1
26.	Raam Group	Business Trainee	09.01.2020	2.4	1
27.	Arcesium	Trainee	31.01.2020	15	1
28.	Prokarma	Trainee Software Engineer	01.02.2020	3	2
29.	Enhi Secure	Software Engineer	19.02.2020	3.3	1
Total					92

## WORKSHOPS / TECHNICAL ACHIEVEMENTS

S.No	Name of the student (Roll no)	Details of Workshop	Organization	Date/ achievement
1.	Joel Kenny Aligala (19261A04C2)	Online course: Internet of Things and Embedded Systems	COURSERA	13-06-2020
2.	Joel Kenny Aligala (19261A04C2)	Online Workshop: Google Data Studio	FICCI	21-05-2020
3.	Joel Kenny Aligala (19261A04C2)	FDP: Role of machine learning & Data sciences in AI	MGIT-CSE & M&H	28-06-2020 to 02-07-2020
4	Joel Kenny Aligala (19261A04C2)	Online Quiz: Aptitude and logical reasoning	Vivekanandha College of Arts	19-05-2020
5	Joel Kenny Aligala (19261A04C2)	Webinar: Gender equality in educational institutes	Rajasthan technical university	26-06-2020
6	Joel Kenny Aligala (19261A04C2)	Webinar: H-NMR spectroscopy	Keshav memorial institute of commerce and science	27-06-2020
6	Joel Kenny Aligala (19261A04C2)	Webinar: Awareness & adoption of the MOOC courses on SWAYAM & NPTEL	Sarojini naidu vanitha maha vidyalayam	16-06-2020
7	Joel Kenny Aligala (19261A04C2)	Workshop: AngularJS to develop Web Apps Faster	MGIT-CSE	26-06-2020
8	Joel Kenny Aligala (19261A04C2)	Online quiz: YOGA from home 2020	MVS govt. arts & science college	21-06-2020
9	Meghana Adapa (19261A04F7)	Hackathon on building chatbots	MGIT	13-02-2020 to 15-02-2020
10	Meghana Adapa (19261A04F7)	Online workshop: YOGA- A science of breath and meditation for subtle energy channelling	MGIT-CSE	6-06-2020 to 10-06-2020
11	Vyshali pagadala (19261A0459)	Online workshop: Arduino programming and applications for beginners	SNIST	8-05-2020 to 13-05-2020
12	Atcha Tejaswini (19261A04C3)	Hackathon on building chatbots	MGIT	13-02-2020 to 15-02-2020
13	Goulikar Niharika (19261A04D9)	Online course: Programming for everybody (Getting started with python)	COURSERA	23-05-2020
14	Goulikar Niharika (19261A04D9)	Online course: Python Data structures	COURSERA	08-06-2020
15	Goulikar Niharika (19261A04D9)	Online course: Using Python to access web data	COURSERA	15-06-2020
16	Goulikar Niharika (19261A04D9)	Online course: Using databases with Python	COURSERA	23-06-2020
17	Goulikar Niharika (19261A04D9)	Online course: Capstone: Retrieving, Processing, and Visualizing Data with Python	COURSERA	24-06-2020
18	U.Swathiprasanna (19261A04H7)	Hackathon on building chatbots	MGIT	13-02-2020 to 15-02-2020
19	P Mourya Deepak (19261A04A3)	Hackathon on building chatbots	MGIT	13-02-2020 to 15-02-2020
20	P Mourya Deepak (19261A04A3)	Workshop: ANDROID BOTIX	JNTUH-EEE	24-02-2020 to 25-02-2020

## WORKSHOPS / TECHINICAL ACHIEVEMENTS CONTD...

S.No	Name of the student (Roll no)	Details of Workshop	Organization	Date/ achievement
21	Mohammed Sami Iqbal (19261A0492)	Hackathon: I-Innovate 1 million seconds	Publishsutra, TSIC & TITA	3-05-2020 to 14-05-2020
22	Mohammed Sami Iqbal (19261A0492)	Online course: Learn to design your own solar home system	Energy swaraj foundation	29-06-2020
23	Mohammed Sami Iqbal (19261A0492)	Workshop: AngularJS to develop Web Apps Faster	MGIT-CSE	26-06-2020
24	Mohammed. Moiz Mustafa (19261A04F8)	Hackathon on building chatbots	MGIT	13-02-2020 to 15-02-2020
25	O VIPIN (19261A0498)	Hackathon on building chatbots	MGIT	13-02-2020 to 15-02-2020
26	O VIPIN (19261A0498)	Online quiz: General science	MGIT-P&C	10-06-2020 scored 92%
27	Udayasri Mandadapu (18261A0456)	Programming for everybody (getting started with python)	COURSERA	20-04-2020
28	Udayasri Mandadapu (18261A0456)	Python data structures	COURSERA	27-04-2020
29	Udayasri Mandadapu (18261A0456)	Python to access web data	COURSERA	25-05-2020
30	Vikram (17261A0458)	Innovate hacton	TSIC	03-05-2020 to 14-05-2020 Participation
31	Vikram (17261A0458)	Matlab	MGIT	06-06-2020 to 11-06-2020
32	S. Abhishek Sagar (18261A04A9)	PCB designing	NSIC	22-05 -2020 to 05-06-2020
33	S. Abhishek Sagar (18261A04A9)	IOT course completion	COURSERA	07-01-2020
34	S. Abhishek Sagar (18261A04A9)	Bridge 2 Career	AIESEC, Hyderabad	27-06-2020
35	NIKITHA GOTURI (18261A0420)	PYTHON	COURSERA	08-06-2020 Participation
36	NIKITHA GOTURI (18261A0420)	PYTHON DATA STRUCTURES	COURSERA	26-06-2020
37	Sai Sricharan Noupada (18261A0448)	Financial Markets	COURSERA, Yale University	05-04-2020
38	Sai Sricharan Noupada (18261A0448)	Finance for strategic digital marketing	COURSERA	21-04-2020
39	R HRUTHIK KUMAR (18261A0442 )	Financial Markets (Coursera, Yale University)	COURSERA	23-04-2020

## WORKSHOPS / TECHNICAL ACHIEVEMENTS CONTD...

S.No	Name of the student (Roll no)	Details of Workshop	Organization	Date/ achievement
40	Bobba mohana sai (18261A0406)	Write professional emails in English	COURSERA	10-05-2020
41	Bobba mohana sai (18261A0406)	Python	COURSERA	17-05-2020
42	M.Sreevani (18261A0454)	Workshop at bits pilani hyderabad on WAC	Microsoft technologies	27-01-2020
43	Marepalli Sindhupriya (19265A0414)	Innovation In Antenna Design And Analysis	Altair	09-06-2020
44	Marepalli Sindhupriya (19265A0414)	Fundamentals of MATLAB and programming	MGIT	06-06-2020 to 11-06-2020 Appreciation
45	Marepalli Sindhupriya (19265A0414)	Digital electronics	MGIT	03-06-2020
46	Marepalli Sindhupriya (19265A0414)	Smart applications using IOT Arduino	Pantech e -learning	17-06-2020 to 19-06-2020
47	E Dheeraj Kumar (19265A0414)	Specialization on Financial Markets and Investment Strategy	COURSERA	05-4-2020
48	E Dheeraj Kumar (19265A0414)	Programming Foundations with JavaScript, HTML and CSS	COURSERA	13-05-2020
49	E Dheeraj Kumar (19265A0414)	Java Programming: Solving Problems with Software	COURSERA	25-05-2020
50	E Dheeraj Kumar (19265A0414)	Design of Drones	SNIST	26-05-2020 to 29-05-2020
51	Manasa Kanakamedala (18261A04F3)	Programming for everybody(python)	COURSERA	30-04-2020
52	Kanduru Sravani Reddy (18261A04E2)	Online quiz	SGP, Atigire	
53	Bairi.Rohith Reddy (18261A0403)	Introduction to User Experience (UX)	Accenture	Achievement July 2020
54	Bairi.Rohith Reddy (18261A0403)	Graphic design with honors	COURSERA	07-05-2020
55	Kelam Sandesh (18261A0423)	PYTHON ONLINE COURSE	COURSERA	31-05-2020
56	Kelam Sandesh (18261A0423)	IOT ONLINE COURSE	COURSERA	25-05-2020
57	B.Rajendra Prasad (17261A0404)	Embedded systems	Hyderabad Institute of Electrical Engineering	4-6-2020 to 2-7-2020
58	VANGALA CHANDANA (18265A0411)	completed on IOT	Pantech Solutions	18-5-2020 to 23-5-2020
59	Nelson Isaac (17261A0412)	Technology Consulting Virtual Internship	Deloitte	11-7-2020
60	Keerthana (17261A0407)	smartbridge(IOT)-greenhouse monitoring and controlling system	Smart Bridge Educational services Ltd.	8-6-2020 to 6-7-2020
61	Lolakapuri Anush Kumar (18265A0405)	VLSI DESIGN AND FPGA	Pantech Solutions	3-6-2020 to 11-6-2020

## WORKSHOPS / TECHNICAL ACHIEVEMENTS CONTD....

S.No	Name of the student (Roll no)	Details of Workshop	Organization	Date/ achievement
62	Yerra Prashanth (18265A0412)	VLSI Design & FPGA	Pantech Solutions	3-6-2020 to 11-6-2020
63	S Mani deep (17261A0450)	VLSI design and FPGA	Pantech Solutions	3-6-2020 to 11-6-2020
64	C.Mrudula (17261A0410)	Smart Bridge Internship Based on IOT	Smart Bridge Educational services Ltd.	8-6-2020 to 6-7-2020
65	Deevela Bhavana (17261A0470)	Icademia collaborative Development programme	Biz time IT solutions pvt Ltd(IBM)	13-4-2020 to 3-6-2020
66	Edigi Rakesh Goud (17261A04D4)	My Captain company	Climber knowledge and careers pvt ltd.	2-6-2020 to 2-7-2020
67	Manish Kumar Ray (17261A04F7)	Embedded system	Hyderabad Institute of Electrical Engineering	4-6-2020 to 2-7-2020
68	Kamutala Saicharan (17261A04E4)	Technology Consulting Virtual Internship	Deloitte	10-6-2020
69	BUCHAMMAGARI MURALIDHAR REDDY (17261A04C8)	Data analytics consulting virtual internship at kpmg	KPMG	10-6-2020
70	KANIKE SHIVA SHANKAR (17261A04E5)	Technology Consulting Virtual Internship	Deloitte	9-6-2020
71	Gopichand (17261A04C6)	Python programming internship	Azure Skynet solutions pvt ltd.	1-5-2020 to 30-5-2020
72	Ginnela Chaitanya (17261A04D8)	Technology Consulting Virtual Internship	Deloitte	10-6-2020
73	A.Shradha (18265A0413 )	IOT using Aurdino	Pantech Solutions Pvt Ltd	18-5-2020 to 23-5-2020
74	Manish Kumar Ray (17261A04F7)	Basics of Siemens S7300 PLC	TATA Motors Ltd.	15-6-2019 to 15-7-2019
75	BUCHAMMAGARI MURALIDHAR REDDY (17261A04C8)	Technology consulting virtual internship at deloitte	Deloitte	10-6-2020
76	Shivasai Vengala (17261A04H8)	Python Basics	COURSERA	23-5-2020
77	A.Shradha (18265A0413 )	Artificial intelligence	ACCENTURE	9-5-2020
78	BUCHAMMAGARI MURALIDHAR REDDY (17261A04C8)	Software engineering virtual internship	JP Morgan chase & co.	10-6-2020
79	Shivasai Vengala (17261A04H8)	Software Engineering Virtual Experience	JP Morgan chase & co.	21-5-2020
80	T. S. S. Spandana (17261A0451)	AngularJS to develop web Apps faster	MGIT, Hyderabad	26-6-2020
81	VANGALA CHANDANA (18265A0411)	completed a workshop on Routing and switching concepts	SNIST, Hyderabad	15-6-2020 to 20-6-2020



## WORKSHOPS / TECHNICAL ACHIEVEMENTS CONTD...

S.No	Name of the student (Roll no)	Details of Workshop	Organization	Date/ achievement
82	Kolukulapally yogender (18265A0403)	Angularjs to develop web apps faster	MGIT, Hyderabad	26-6-2020
83	VANKUDOTH PRAVEEN (17261A04B5)	Deep learning Onramp	Mathworks Training services	13-5-2020
84	N Vamshi (17261A04G2)	Python 3 Programming	COURSERA	5-4-2020
86	Manish Kumar Ray (17261A04F7)	Python basics	COURSERA	27-5-2020
87	BUCHAMMAGARI MURALIDHAR REDDY (17261A04C8)	Workshop on angular js	KL University	26-6-2020
88	KANIKE SHIVA SHANKAR (17261A04E5)	AngularJS to develop Web Apps Faster	MGIT, Hyderabad	26-6-2020
89	T. S. S. Spandana (17261A0451)	Applied deep learning	Indian Servers	14-6-2020
90	VANKUDOTH PRAVEEN (17261A04B5)	Introduction to IOT	Cisco networking Academy	6-5-2020
91	HITESH ALUGURI (16261A0423)	Received 2nd prize in National Virtual Quiz	Sathyabama Institute of Science and Technology in association with The institution of Engineers	13-06-2020
92	Yapuram Bhavani Shankar (16261A0460)	Internship on Software Engineering Virtual Experience	JP Morgan and Chase Company	22-06-2020
93	Yapuram Bhavani Shankar (16261A0460)	Internship on Undergraduate & Masters Virtual Internship Platform	Microsoft	24-06-2020
94	Yapuram Bhavani Shankar (16261A0460)	Internship on Technology consultancy Virtual internship	Deloitte	21-06-2020
95	BHUKYA SHIVA KUMAR (17265A0413)	Internship on Inplant training	CITD for one month	11-05-2020 to 10/6/2020
96	BHUKYA SHIVA KUMAR (17265A0413)	Design and implementation of FIFO using Verilog HDL	DRDO	06-06-2020 to 01/7/2020
97	BAYANA LAKSHMI MANASA (16261A0403)	DCS and PLC application	BHEL	28-06-2020 to 02-07-2020
98	DIDDIGE ABHINAV (16261A04J0)	Image processing using open CV	Vivekanandha College of Arts	19-05-2020
99	DIDDIGE ABHINAV (16261A04J0)	Organised walk in interview event	MGIT	14/03/2020
100	GOLLA JAYANTH (16261A04D9)	Mathdax Co-ordinator	MGIT	14/03/2020

## WORKSHOPS / TECHNICAL ACHIEVEMENTS CONTD...

S.No	Name of the student (Roll no)	Details of Workshop	Organization	Date/ achievement
101	Kandhala Archana (17265A0426)	Poster Presentation-Organizer	MGIT-ECE	14/03/2020
102	P vijayalaxmi (17265A0431)	Internship On self directed recover	NSIC	23-05-2018 to 19-6-2018
103	P vijayalaxmi (17265A0431)	Paper presentation	On Li-fi technology	14-03-2020
104	Garlapati Sandhya (16261A0418)	Internship	ECIL	26-06-2020
105	YELLANKI ABHISHEK GUPTA (16261A04H9)	Served as CO-ORDINATOR for the event named "PHOTOHUNT" IN MICROCOSM 2020	MGIT-ECE	14/03/2020
106	G. SAI KEERTHANA (16261A04D6)	POSTER PRESENTATION - COORDINATOR	MGIT-ECE	14-03-2020
107	U Venkata sai anand mohan (16261A04B7)	Nirvana football participation	MGIT-ECE	14-03-2020
108	SUNKI SANDHYA (16261A04B4)	Internship	HySoC Technologies Pvt.Ltd	23-06-2020
109	K.Archana (17265A0426)	Poster Presentation-coordinator	MGIT-ECE	14-03-2020
110	Eslavath Eshwar (16261A04D3)	Kabaddi, Athletes	MGIT-ECE	14-03-2020
111	M.HemaBindu (16261A04F7)	Poster Presentation	MGIT-ECE	14-03-2020
112	Sri Nishitha Lavu (16261A04B3)	Internship	EAllps Digital Pvt. Ltd.	29-06-2020
113	M Hamsika (16261A04F2)	Application of Internet of Things(IOT) in Analysis of medical and smart healthcare monitoring system	Chennai institute of tech. and science	29-06-2020 to 30-06-2020
114	M Hamsika (16261A04F2)	Webinar on Brain computer interface robot	Pantech e learning	12-06-2020
115	Jaswanth sharma (16261A04E2)	Webinar on clock domain crossing techniques and clock gating design	Pantech e learning	14-06-2020

## EVENTS ORGANIZED BY THE DEPARTMENT

### Webinars & FDPs conducted by ECE Department:

S.No.	Name of the Event	Date	Organized	No. of Participants
1.	Webinar on “ <b>Clock Domain Crossing Techniques And Clock Gating Design (VLSI)</b> ”	14 <sup>th</sup> June 2020	Dept. of ECE, MGIT in association with Pantech e-Learning	845
2.	Two Day Online FDP on “ <b>Effective Technical Report Writing Using LaTeX</b> ”	8 <sup>th</sup> & 9 <sup>th</sup> June 2020	Dept. of ECE, MGIT in association with SWECHA	925
3.	Technical Fest “ <b>MICROCOSM</b> ”	12 <sup>th</sup> March 2020	Dept. of ECE, MGIT.	935

1. The ECE department had conducted One day Technical Fest “**MICROCOSM’20** on 12<sup>th</sup> March 2020. Total 11 events are conducted. The details are given in the below table.

S.No	Event Name	No. of Registrations
1	Project Expo	85
2	PPT Presentation	53
3	Poster Presentation	37
4	Strong Zone	130
5	Dazzler	85
6	MathDox	127
7	Electrobuzz	160
8	Circuit Race	82
9	Fast Lane	85
10	Walk-in-Interview	61
11	Photo Hunt	30

## FORTHCOMING EVENTS

### Schedule of Co-curricular & Extracurricular Activities for B.Tech II, III & IV Years

Academic Year 2020-2021

S.No	Date	II, III & IV Years - Activities			
1	14/09/2020	Reasoning-1 (Alphanumeric series, Reasoning Analogies, etc.)	IOT Classes	C & Python Classes	GATE Classes
2	21/09/2020	Quantitative Aptitude-1 (Time and distance, Time and work, etc.)			
3	28/09/2020	Letter writing (Formal)			
4	5/10/2020	Video Resume			
5	12/10/2020	Reasoning-2 (Blood Relations, Puzzles, etc.)			
6	26/10/2020	Quantitative Aptitude-2 (Problem on ages, Data Interpretation, etc.)			
7	9/11/2020	G.K.			
8	16/11/2020	Seminars on general issues			
9	23/11/2020	Reasoning – 3 (Dices, Directions, etc.)			
10	7/12/2020	General Aptitude on ICT			
11	14/12/2020	Just a minute			
12	21/12/2020	Technical Quiz			

## PHOTOGRAPHS



Principal & HoDs during **inauguration of department Fest MICROCOSM 2020**



Mr. Srinivasu Batchu, Engineering Manager, Amphenol Interconnect India Pvt. Ltd., Hyderabad delivering guest lecture on **“Embedded Projects with Electronic Hardware and Firmware”** during 19.02.2020



## PHOTOGRAPHS CONTD...



Principal, Director & HoD during demonstration of Project, MICROCOSM 2020



## PHOTOGRAPHS CONTD...



Principal, Director, HoD & Students gathering during **MICROCOSM 2020**



HoD presenting memento to the **winners of Project Expo** during **MICROCOSM 2020**

## 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.