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

NEWS LETTER
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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

Mrs. P. Usha Rani

STUDENTS:

Ms. S. Pravallika

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 **"Design of 8 element micro strip patch array with hybrid power divider for side lobe"** Journal of Advance Research in Dynamical & Control Systems, Vol. 10, 04-Special Issue, 2018, 10 April 2018, ISSN 1943-023X, pp 765-773.

2. Dr. Ch. Raja**, "Optimal Feature Selection for Zone Based Medical Image Retrieval",** International journal of emerging technologies and innovative research (JETIR), Vol: 5, Issue: 2, Feb 2018, PP.1103-1110, ISSN: 2349-5162.

3. Dr. Ch. Raja**, "Optimal Region Size for an Efficient Medical Image Retrieval",** International journal of emerging technologies and innovative research (JETIR), Vol: 5, Issue: 3, March 2018, PP.1387-1393, ISSN: 2349-5162.

4. Dr. Ch. Raja, **"Mini CNC Plotter Using Android",** International journal of emerging technologies and innovative research (JETIR), Vol: 5, Issue: 5, May 2018, PP.1048-1053, ISSN: 2349-5162.

5. Mrs. G. Madhavi, **"Object Tracking using Orthogonal Learning Particle Swarm Optimization (OLPSO)",** International Journal of Applied Engineering Research, ISSN: 0973-4562 Volume 13 Number 1, January 2018, pp-252-261.

6. Mr. S. Srinivasa Rao, **"Design of Binary Phase Sequences using Modified Particle Swarm Optimization for Spread Spectrum and Radar Applications"**, ARPN Journal of Engineering and Applied Sciences, Vol. 13, No. 2, ISSN 1819-6608, January 2018.

7. Dr. S. Praveena, **"Reduction of Davies Bouldin index using hybrid clustering algorithm and Naive Bayes Classifier"**, International Journal of Engineering, Science and Mathematics, ISSN: 2320-0294, Vol. 7 Issue. 3, March 2018.

8. Dr. S. Praveena, **"Classification of Images Using ABC-GA, ABC-KFCM and Naive Bayes Classifier"**, International Journal of Advanced in Management, Technology and Engineering Sciences, ISSN: 2249-7455, Volume 8, Issue III, March 2018.

9. Dr.S.Praveena, **"Review on Image Clustering Algorithms"**, International Journal of Innovative Research & Studies, ISSN: 2319-9725, Volume 8, Issue III, March 2018.

10. Dr.S.Praveena, **"Digital Image Water Marking Techniques"**, International Journal of Latest Trends in Engineering and Technology (IJLTET), Volume. 10, Issue. 2, ISSN: 2319-3778, April 2018, Pp 077-082.

11. Mrs.S.Praveena, **"Heart Diseases Analysis through ECG Signal Processing: A Review"**, International Journal of Advanced Management Technology and Engineering Sciences (IJAMTES), ISSN: 2249-7455, Volume 8, Issue 4 on April 2018.

12. Mrs.T.R.Vijaya Lakshmi, **"Two-level Gene selection to predict tumors"**, International Journal of Imaging and Robotics, Volume 18, Issue No 2, ISSN: 2231-525X, April 2018.

WORKSHOPS/COURSES ATTEDNED BY FACULTY

S. No.	Name Of The Faculty	Name Of The Course	Place	Dates	Duration
1.	Dr .S. P. Singh	**Workshop on Matlab and Simulink 2018",**	**Hotel Navotel, Hyderabad**	24 April 2018	1 Day
2.	Dr. D. Venkat Reddy	**Workshop on Matlab and Simulink 2018".**	Hotel Navotel, Hyderabad	24 April 2018	1 Day
3.	Mr .D.V.S.N.K uamr	**Workshop on Matlab and Simulink 2018",**	Hotel Navotel, Hyderabad	24 April 2018	1 Day
4.	Mr .K. Raghu	**Workshop on Matlab and Simulink 2018".**	Hotel Navotel Hyderabad	24 April 2018	1 Day
5.	Dr. S. P. Singh	**Workshop on NIRF Ranking "Meltranking 2020",**	TCS campus Hyderabad	May 23, 2018	1 Day
6.	Dr.T.R.Vijaya Lakshmi	Workshop **"To train the trainers for implementation of Induction Program"**.	JNTU Hyderabad	17 -19 May 2018	3 Days
7.	Dr.T.R.Vijaya Lakshmi	FDP on **"Adoption of FOSS for Effective Teaching and Learning in Engineering".**	CMRCET Hyderabad	18 -23 June 2018	1 Week
8.	Mr. B. Kesava Rao	AICTE-ISTE sponsored RC on **"Channel Coding Techniques".**	GNITS Hyderabad	25 -30 June 2018	1 Week
9.	Ms. A. Navaneetha	**Summer Faculty Research Fellow Programme**	IIT, Delhi	21 May 18 to 6-07-2018	6 Weeks
10.	Mr. A. Bala Raju	One Day Intensive workshop on **"Emerging Trends and Application of the Internet of Things".**	JNTUHCOE Jagtial	22 March 2018	1 Day

GUEST LECTURES

S. No.	Topic	Name of the Expert / Company	Date
1.	**"Career Counselling Session"**	M/s. Newbietech	22-01-18
2.	**"Wireless Communication and Networks laboratory by Network Simulator-2"**	Dr. S. Pothalaiah, Professor VJIT, Hyderabad.	24-01-18
3.	**"Free aptitude copy righted short cuts"**	M/s Anil Nair classes	05-03-18

STUDENTS ACHIEVEMENTS

STUDENT PLACEMENTS (CLASS of 2018):

Sl. No.	Company	Designation	Date	Pay Package(L)	No. of Placements
1.	GGK Technologies	Software Engineer	18-07-2017	3.50	2
2.	Teksystems-Oracle	Software Engineer	19-07-2017	3.50	1
3.	Modak Analytics	Software Engineer	04-08-2017	3.60	10
4.	Automation Solutions	Trainee Engineer Projects	07-08-2017	2.00	1
5.	Cognizant	Trainee Engineer	20-08-2017	3.30	1
6.	Indian Oil Corporation	Trainee Engineer	28-08-2017	5.00	1
7.	Inrythm	Trainee Software Engineer	05-10-2017	3.50	2
8.	Amazon	CA/CS/SS/TRM	10-10-2017	2.75	27
9.	Clowork	Business Lead & Technology Analyst	26-10-2017	3.30	3
10.	Veda IIT	VLSDE/CLD	28-10-2017	3.00	4
11.	TCS	Asst Software Developer	16-12-2017	3.33	9
12.	Westline Shiping	Marine Engineers	20-12-2017	3.00	1
13.	Genpact	CSS	22-12-2017	2.80	2
14.	Dolcera	Software Developer	29-12-2017	3.80	1
15.	Qspider	Trainee Intern	08-01-2018	3.00	2
16.	Friendly Consultancy	Trainee Intern	10-01-2018	2.40	3
17.	Media Mint	Ad Operations/Customer Support Trainee	22-01-2018	2.80	4
18.	Aliens Group	Business Associate	25-01-2018	1.70	3
19.	TCS(OFF CAMPUS)	Asst SoftwareDeveloper	9-10 & 16-02-2018	3.33	7
20.	INFOSYS	Software Engineer	12-02-2018	3.33	7
21.	NTT DATA	Software Engineer	14-02-2018	3.30	1
22.	Accenture	Software Engineer	16-02-2018	3.00	10
23.	Just Dial	Technical Associate	17-02-2018	2.80	1
24.	Crane Software	Software Engineer	19-02-2018	3.00	2
25.	Stratagem Solutions	Business Manager	13-03-2018	4.80	2
26.	Nexgile	Associate Software Engineer	17-03-2018	1.80	3
27.	FACE	Associate - Trainers	21-03-2018	2.64	2
28.	Netcracker		24-03-2018	5.5	1
				Total	114

ACADEMIC ACHIEVEMENTS

Name of the Student	GRE (340)	TOEFL (120)	GATE Rank	CAT (Percentile)	Any Other(IELTS)
Hashimi Hussain (14261A0451)					7.5
Sai Bhaskar Reddy (14261A0458)	301				7.5
P.Shruthi (14261A0449)				82.97	
K.Bhavani (14261A0428)	298				
P.Subha Sahiti (14261A04F7)				80.57	
B.Akhil (14261A04C8)	303				
E.Naveen Kumar (14261A0475)					6.0
Moulika Bollinadi (14261A0409)	291				7.0
Bharath reddy Mara (14261A0435)	296				
K. Manikumar (14261A0494)	290				
Akhil Brungi (14261A04C8)	303				
Asif Pasha (14261A0405)			9.33(score)		
Sai Anirudh Reddy Avilala (14261A0465)	322	100			
A. Bharath (14261A0406)			6249		
K.Rishipavan(14261A0490)	318				
N. Praveen Kumar Reddy (14261A04A4)					6.0
M.Preetham (14261A0438)	290				6.0
Baddam Suchith Reddy (14261A0467)					6.5
V. Ujjwala (14261A04H3)			9491		
M.Vaibhav Reddy (14261A04A1)					6.5
B.Spandhana (14261A0407)	320				6.5
E.Alekhya (14261A04D3)	319				7.5
Md.Tariq Aslam (14261A0435)					7.5
P.Pavani (14261A04G1)					6.5
P.Anusha (14261A04A0)					7.0
V.Priyanka (14261A0440)	290				6.5
B.Sai Anurag (14261A04C5)	308				
M.Prashanth Reddy (14261A0490)	285	63			
K.Greeshma (14261A04F1)	300				
M.Kavya (14261A0496)	300				6.5

SPORTS ACHIEVEMENTS

S. No.	Name of The Student	Year	Event	Prize	Date / Place
1	N.Sneha (17261A0410)	I	Volleyball	**First Prize**	31/05/2018 to 31/06/2018 MGIT, Hyderabad
2	Kirthi C Prakash (17261A04F3)	I	Volleyball	**First Prize**	18/03/2018 MGIT, Hyderabad
3	Kirthi C Prakash (17261A04F3)	I	Cricket	**First Prize**	26/02/2018 MGIT, Hyderabad
4	Kirthi C Prakash(17261A04F3)	I	Lawn Tennis	**First Prize**	Mahindra Cole Centrale
5	Kirthi.C.Prakash(17261A04F3)	I	Tennis	**Representation**	Gitam University,AP
6	A.Adrushta (17261A04C2)	I	Cricket	**First Prize**	26/2/2017 MGIT,Hyderabad
7	V.Sai Bhubaneswar (17261A0455)	I	Football	**First Prize**	24/02/2018 MGIT,Hyderabad
8	CH.Yashwanth (17261A0411)	I	Football	**First Prize**	24/02/2018 MGIT,Hyderabad
9	G. Eswar(17261A0415)	I	Basketball	**Second Prize**	JNTUH Zonal
10	G. Eswar (17261A0415)	I	Basketball	**Participation**	MREC
11	Umary Agarwal (17261A0454)	I	Football	**First Prize**	24/02/2018 MGIT,Hyderabad
12	A.Adrushta (17261A04C2)	I	Volleyball	**First Prize**	26/2/2017 MGIT,Hyderabad
13	A.Adrushta (17261A04C2)	I	Basketball	**First Prize**	26/2/2017 MGIT,Hyderabad
14	C.Abhishek (16261A0468)	II	Football	**First Prize**	27/02/2018 MGIT,Hyderabad
15	Nikhil (16261A04A0)	II	Football	**First Prize**	27/02/2018 MGIT,Hyderabad
16	Saidulu (16261A0463)	II	Kabbaddi	**Second Prize**	27/02/2018 MGIT,Hyderabad
17	E.Eswar (16261A04D3)	II	Kabbaddi	**Second Prize**	27/02/2018 MGIT,Hyderabad
18	E.Eswar (16261A04D3)	II	Football	**First Prize**	27/02/2018 MGIT,Hyderabad
19	L.Saikrishna(16261A04F1)	II	Football	**First Prize**	27/02/2018MGIT,Hyd.
20	S.Navya(15261A0443)	III	Chess	**First Prize**	24/02/2018MGIT,Hyd.
21	M.Sai Priya (15261A0446)	III	Cricket	**First Prize**	24/02/2018,MGIT,Hyd.
22	M.Sai Priya (15261A0446)	III	Football	**First Prize**	24/02/2018,MGIT,Hyd.
23	M.Sai Priya (15261A0446)	III	Volleyball	**First Prize**	24/02/2018,MGIT,Hyd.
24	S.Manjula (16261A0410)	III	Running 200m	**First Prize**	24/02/2018 MGIT,Hyderabad
25	S.SuryaTeja (15261A0447)	III	Caroms	**Second Prize**	24/02/2018,MGIT,Hyd.
26	Pravallika(15261A0445)	III	Javelin Throw	**Second Prize**	24/02/2018,MGIT, Hyd.

WORKSHOPS / TECHNICAL ACHIEVEMENTS

S.NO.	NAME OF THE STUDENT	WORKSHOP/ EVENT NAME/TITLE	ORGANIZATION	DATE/ ACHIEVEMENT
1	J.Tejaswani (17261A0416)	Circuit Mania	MGIT	26-02-018/**Merit**
2	Eswar (17261A0415)	Circuit Mania	MGIT	26-02-018/**2nd prize**
3	Dheeraj.G (17261A0413)	Internship on **"Cloud Fundamentals|"**	Microsoft Technology Associate	09-07-2018/ Internship
4	Harshavardhan (17261A0423)	Circuit Mania	MGIT	26-02-018/**2nd prize**
5	Naga Sandhya (17261A04A4)	Design IT	MGIT	26-02-018/**certificate of Excellence**
6	Naga Sandhya (17261A04A4)	Gate Maestro	MGIT	26-02-018/**2nd prize**
7	D.Bhavana (17261A0470)	Design IT	MGIT	26-02-018/**certificate of Excellence**
8	B.Navya(16261A0401)	A1/ML	BITS PILANI,HYD.	1-21 June2018/ **Internship**
9	K.Anand Ramaiah (16261A0427)	Design and implementation of Watchdog Timer Applications in ATM	ECIT	04-06-2018 to 03-07-2018/**Internship**
10	B.Praneeth (16261A0404)	Design and implementation of Watchdog Timer Applications in ATM	ECIT	04-06-2018 to 03-07-2018/**Internship**
11	G.Nagarjuna(16261A0420)	A1/ML	BITS PILANI,HYD.	1-21 June2 018/**Internship**
12	K.Gayathri(16261A0419)	Design and implementation of Hamming code	ECIT	11-06-2018 to 10-06-2018/**Internship**
13	G.v.s.r. Karthikeya (16261A0422)	Internship on **"Cyber security"**	OU, Hyderabad	24-25 Feb18/ **Participation**
14	G.v.s.r. Karthikeya (16261A0422)	T Phone Camera Configuration	smart on	30-05-18 to 30-06-2018/ **Internship**
15	M.Garlapati Sandhya(16261A0418)	Design and simulation of International Data Encryption Algorithm	ECIT	23-05-2018 to 22-06-2018/ **Internship**
16	Goutham.Rao Ningala (17265A0405)	Circuit Mania	MGIT	26-02-018/**Merit**
17	E.V.V. Ramana(15261A04D4)	ELectronics	BSNL	**Internship**
18	Anil Kumar(15261A04E3)	ELectronics	DRDO	**Internship**
19	G.OmPrakash(15261A04D6)	ELectronics	RCI(DRDO)	**Internship**

WORKSHOPS / TECHNICAL ACHIEVEMENTS CONTD..,

S.No.	Name of the Student	Workshop/ Event Name/Title	Organization	Date/ Achievement
20	B.Navya(16261A0401)	Gender Equality	MGIT	26-02-2018/**Appreciation**
21	Sai Vardhan Reddy (162B1A0490)	RFID based attendance system	ECIT	28-05-2018 to 27-08-2018/**Internship**
22	L.Sai Chaitanya (16261A0491)	RFID based attendance system	ECIT	28-05-2018 to 27-08-2018/**Internship**
23	D.Sai Prasanth Reddy (16261A0473)	Konkur-m Missile Assembly Process of Coordinator unit	BDL	28-05-2018 to 27-08-2018/**Project**
24	Ch.Nikhil (16261A0467)	Konkur-m Missile Assembly Process of Coordinator unit	BDL	28-05-2018 to 27-08-2018/**Project**
25	Jakkanolla Sai Kiran (16261A0481)	Study of PLC in CNC Machines	BHEL	25-06-2018/**Internship**
26	Spoorthy(1761A0422)	Project Expo	MGIT	26-02-2018/**3rd Prize**
27	Sandhya(17261A0423)	Project Expo	MGIT	26-02-2018/**3rd Prize**
28	S.SrinidhiJaya Revanth (16261A04A7)	Advanced system laboratory	DRDO	17-05-2018 to 18-06-2018/**internship**
29	R.Anusha(16261A04G5)	Project Expo	MGIT	26-02-2018/**3rd Prize**
30	G. Jayanth(16261a04D9)	Project Expo	MGIT	26-02-2018/**consolation**
31	M.Chandana(15261A04F9)	Project Expo	ECIL	**2nd Prize**
32	N.Alekhya(15261A04G1)	Project Expo	ECIL	**2nd Prize**
33	A.Tanmay(15261A04C3)	Project Expo	ECIL	**2nd Prize**
34	L.Yaswanth(15261A04F1)	Project Expo	ECIL	**3rd Prize**
35	N.Sreekanth(15261A04G2)	Project Expo	ECIL	**3rd Prize**
36	M.Ruthvik(15261A04G0)	Project Expo	ECIL	**3rd Prize**
37	B.Nikhil Krishna(15261A04G3)	Project Expo	ECIL	**3rd Prize**
38	VedaSmrithi (15261A04H8)	AMP	BEC	**Merit Certificate**
39	M.Chandana(15261A04F9)	Project Expo	BHEL	2nd Prize/ **Internship**
40	P.Yaswanth(15261A0436)	Microcosm	MGIT	26-02-2018/**2nd Prize**
41	M.Vanaja(15261A0428)	Circuit T trace	MGIT	13 -14 Oct2018/**First Prize**
42	K.D.Bhavani(16265A0406)	Circuit T trace	MGIT	13 -14 Oct2018/**First Prize**
43	P.C. Kiran(16261A04G3)	Project Expo	MGIT	26-02-2018/**consolation**
44	K.V.S.Bharath(15261A04E5)	Project Expo	MGIT	26-02-2018/**First Prize**
45	E.V.V.Ramana(15261A04D4)	Technical event	IIT-H	26-02-2018/**Second Prize**

ALUMNI ACHIEVEMENTS

S. No	Name Of the Alumni	Higher studies	University & Place
1	Mr. A.Sai Anirudh Reddy (14261A0465)	M.S.	University of Rochester, USA
2	Mr. N. PraveenKumar Reddy (14261A04A4)	M.S.	Western Illinois University, USA
3	Ms. B. Moulika (14261A0409)	M.S.	The University of North Carolina,USA
4	Mr. M. Vabhav Reddy (14261A04A1)	M.S.	Oklahoma City University, USA
5	Ms. K. Nithin (14261A0424)	M.S.	Auburn University, Mantgomery, USA
6	Mr. M. Preetham (14261A0438)	M.S.	Oklahoma City university, USA
7	Ms.K.Bharani (14261A0428)	M.S.	University of North Texas, USA.
8	Mr.Ch. Navven Kumar (14261A0475)	M.S.	Oklahoma City University, USA
9	Mr.V. Saibaskar Reddy (14261A0458)	M.S.	University of Cincinati, USA.
10	Mr. Venkata Prasda Reddy (14261A0486)	M.S	Wiclita State University, USA.
11	Mr. K. Yashasvi (14261A0426)	M. Tech	University of Hyderabad, India
12	Ms.K. Harichandana (13261A0418)	M. Tech	IIT, Titupati, India.
13	Ms.M.Aditya (13261A0437)	M. Tech	IIT, Titupati, India.
14	Mr.N.Shiva prasad (13261A0445)	M. Tech	NIT,Jalandhar, Punjab, India.
15	Mr. A.Kumar (14261A04C5)	M.B.A.	ICFAI Business School,Mumbai, India.
16	Ms. P.Sruthi (14261A0449)	M.B.A	National Institute of Bank Management, Pune, India

INVITED LECTURES DELIVERED:

1. **Dr. S. P. Singh, Delivered a Lecture on "Microprocessor and Applications" in Induction programs for young engineers at Midhani on 08 January 2018.**

2. **Dr. T. D. Bhatt Delivered a Lecture on "EDC part -1" in Induction programs for young engineers at Midhani on 08 January, 2018.**

3. **Dr. T. D. Bhatt Delivered a Lecture on "EDC part -2" in Induction programs for young engineers at Midhani on 31 January 2018.**

EVENTS ORGANIZED BY THE DEPARTMENT

S.No.	Class	Event	Date	No. of Participants
1	III Year ECE	Class on Aptitude and Java	13/1/18	45
2	III Year ECE	Aptitude Test & Class on Java	20/1/18	52
3	III Year ECE	Workshop on JAVA fundamentals	27/1/18	67
4	I, II & III Year ECE	Workshop on **"ROBOTICS USING ARDUINO"**	23rd and 24th February	52
5		1. Paper Presentation		26 Teams
6		2. Project Expo		54
7		3. Circuit Mania		41 teams
8		4. Design It		61
9	MICROCOSM-18 All Year Students	5. Student Of the Year	26th February	39
10		6. GRE Quest		45
11		7. GATE Maestro		34
12		8. Strong Zone		151
13		9. Mathdox		47 teams
14		10. Dazzler		114 teams
15		11. Buzz Quiz		24 teams
16	III Year ECE	Workshop on "**IoT, Smart Cities, 5G Technology, Block Chain by Fiabilite"**	10/3/18	64
17	III Year ECE	Pre Assessment Test by Naukri	17/3/18	85
18	Faculty and staff	Training programme on "**MW, DC, DICA and BS Lab"**	25-30 June 2018	41

FORTH COMING EVENTS

S.No.	Event Name	Date of Event
1	Just two minutes (On given topic)	14/07/2018
2	Letter writing (Formal and Informal)	21/07/2018
3	Technical Quiz	28/07/2018
4	Group discussions	11/08/2018
5	Debate	18/08/2018
6	Aptitude test	25/08/2018
7	Technical seminars (Selected topic)	15/09/2018
8	Technical seminars (Selected topic)	22/09/2018
9	Role play	29/09/2018
10	Personality development	27/10/2018

Lighting of the lamp during inauguration of National level technical symposium

MICROCOSM-2018 on 26 Feb 2018

Students explaining about projects during project expo on 26 Feb 2018

Prof. T.D.Bhatt delivering lecture during Lab Training Program organized by ECE Department (25 –30 June 2018)

Mrs. S. Swetha delivering lecture during Lab Training Program organized by ECE Department (25 –30 June 2018)

Mr. K.Bapayya delivering lecture during Lab Training Program organized by ECE Department (25 –30 June 2018)

Class of 2018 (4-ECE-1)

Class of 2018 (4-ECE-II)

Class of 2018 (4-ECE-III)

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.

PRESS COVERAGE

Namaste Telangana news paper on 26 February 2018