



MAHATMA GANDHI INSTITUTE OF TECHNOLOGY

Gandipet, Hyderabad

DEPT. OF ELECTRONICS AND COMMUNICATION ENGINEERING

NEWS LETTER JULY 2022 VOLUME 11 ISSUE 1



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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

K. Manoj Kumar

D. Sanjana

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.

International Journals:

1. **S.P.Singh, S.Praveena, B. Suresh Kumar, “Kidney Stone Detection from CT scan Using CNN”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), e-ISSN: 2319-8753, Volume 11, Issue 6, Page Nos: 8723 – 8735, June 2022. (Impact Factor 8.118) (Peer Reviewed)**
2. **Dr S P Singh, “Ninety-Six Phase Code Design with Good correlation properties”, World Journal of Engineering Research and Technology (WJERT), 2022, Vol. 8, Issue 6, ISSN 2454-695X, pp 144-151. (Peer Reviewed)**
3. **Dr S P Singh, “Orthogonal Thirty-Two Phase Sequence Sets Design”, Current Trends in Signal Processing, STM Journal, ISSN: 2277-6176 (Online), ISSN: 2321-4252 (Print), Volume 12, Issue 2, 2022, DOI (Journal): 10.37591/CTSP, pp 33-39. (Peer Reviewed)**
4. **Kamlekar saisri, Dr D Venkat Reddy, “A Robust Technique For Chrominance Feature Of The Hmd Color Space Used For Image Retrieval”, Journal of Information and Computational Science, ISSN: 1548-7741, Volume 12 Issue 3 – 2022. (SCOPUS)**
5. **D.Nagajyothi, P. Hema Sree, M.Rajani Devi, G.Madhavi, Sk Hasane AhammadI, “OT-Based Prediction of Pesticides and Fruits Diseases Detection Using SVM and Neural Networks”, International Journal of Mechanical Engineering, ISSN: 0974-5823, Vol. 7 No. 1 January, 2022. (Scopus)**
6. **Dr. Ch.Raja, “Real-Time Implementation and Testing of VoIP Vocoders with Asterisk PBX Using Wireshark Packet Analyzer”, Journal of Interconnection Networks, January 2022, Page No:22-48 (Scopus & WOS)**
7. **Dr. Ch.Raja, “Resolution-Invariant Person Reidentification Via Projective Dictionary Learning”, The International journal of analytical and experimental modal analysis, Volume XIV, Issue III, March 2022, ISSN NO: 0886-9367, P. No. 299-302.**
8. **Jupaka Nikhila, Sirasani Srinivasa Rao, “BRAIN TUMOR CLASSIFICATION AND IDENTIFICATION BASED ON DEEP LEARNING MODEL”, The International journal of analytical and experimental modal analysis, ISSN No: 0886-9367, Volume XIV, Issue II, February 2022, Page No: 357 -361.**
9. **Sirasani Srinivasa Rao, Subba Ramaiah V, “FHSA: fractional harmony search algorithm for polyphase code design in radar signal processing”, International Journal of Pervasive Computing and Communications, ISSN: 1742-7371, 27th January 2022. (Scopus)**
10. **K.Loheswaran, V.Subba Ramaiah, Sirasani Srinivasa Rao, P.Malathi, M.Prabu, V.R.Niveditha, “Powerful basic frequency extraction from monophonic signs utilizing versatile sub-band separating”, International Journal of Speech Technology, doi.org/10.1007/s10772-021-09874-4, 22 January 2022. (Springer).**
11. **Dr.V.Saidulu, “Simulation and Experimentation Analysis of Dielectric Covers on Square Patch Antenna in Wireless Communications”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878 (Online), Volume-10, Issue-6, March 2022. (Scopus)**
12. **Dr.V.Saidulu, “Effect of Dielectric Cover Thickness Analysis on Rectangular Microstrip Patch Antenna in Wi-Fi Applications”, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075 (Online), Volume-11, Issue-4, March 2022. (Scopus)**
13. **Dr.V.Saidulu, “A Comparative Study on Effect of Dielectric Covers on Microstrip Patch Antenna”, Journal of Microwave Engineering & Technologies, STM Journals, ISSN: 2349-9001, Volume 9, Issue 1, April 30, 2022. (UGC / Peer Reviewed)**

14. **M.Chandrakala, P. Durga Devi**, “**Classification of Pneumonia in Chest X-Ray Images Using CNN and Varying Batch Size**”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), e-ISSN: 2319-8753, Volume 11, Issue 6, June 2022. **(Impact Factor: 8.118) (Peer reviewed)**
15. **Praveena, S., Pandey, H., Kumar, V. P., Meenatchi, S. & Mudradi, S. K.**, “**Prediction of environment pollution by employing long short-term memory network**”, International Journal of Health Sciences, 6(S2), ISSN 2550-6978, Page Nos: 8998 – 9009, 1st May 2022. **(Scopus)**
16. **Praveena, S., Singh, S. P., & Kumar, B. S.**, “**Machine learning mechanism for segmentation, progressive assessment and prediction of brain tumor growth**”, International Journal of Health Sciences, 6(S2), ISSN 2550-6978, 18 April 2022, Page Nos: 7696–7709. **(Scopus)**
17. **Dr.T R Vijaya Lakshmi**, Ch.Venkata Krishna Reddy, K. Padmavathi, K. Swaraja, K. Meenakshi, “**Entropy based single image dehazing with refined transmission using holistic edges**”, Multimedia Tools and Applications (**Springer**) <https://doi.org/10.1007/s11042-022-12485-z>, 2022. **Impact Factor: 2.757, (SCI)**
18. **Dr.T R Vijaya Lakshmi et al.**, “**Modeling of Patterns with Spectral Data and Time-Varying PSO to Identify Concealed Character Strokes of Historical Manuscripts**”, Lecture notes in Networks and Systems, Vol.287, pp. 471-482. Springer, 2022. DOI: 10.1007/978-981-16-5348-3_37 **(Scopus)**
19. **D. Subhashini & V. B. S. Srilatha Indira Dutt**, “**An innovative hybrid technique for road extraction from noisy satellite images**”, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2021.08.114>. June 2022. **(SCOPUS)**
20. **Paritala Jhansi Rani, Kesava Rao B**, "Real Time Recognition of Traffic Signs Using Deep Learning Methods", Neuro Quantology, May 2022, Volume 20, Issue 5, Pages 3970-3981, doi: 10.14704/nq.2022.20.5.NQ22689. **(Scopus)**
21. **Kesava Rao B**, Chandra Mohan Reddy S, "An Efficient Feature Selection with Ensemble Machine Learning Model for Speech Emotion Recognition", Journal of Optoelectronics Laser 41, no. 7, May 2022, Pages: 44-52. **(Scopus)**
22. **Kesava Rao B**, "An Intelligent Iot Sensor Based Weather Monitoring System", International Journal of Innovative Research In Technology (IJIRT), Volume 9 Issue 1 ISSN: 2349-6002, June 2022. **(Peer-reviewed)**
23. **P Durga Devi & M Chandrakala**, “**Prediction of PM10 using Random Forest regression and Landsat 8 data**”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), e-ISSN: 2319-8753, Volume 11, Issue 6, June 2022. **(Impact Factor: 8.118) (Peer reviewed)**
24. **D.Nethaji, A.Bala Raja**, “**Using Addition Schemes to Improve the Performance of Optimized Radix-2 and Radix-4 FET Butterflies**”, International Journal for Innovative Engineering and Management Research, ISSN: 2456 – 5083, Vol 11, Issue 01, Jan 2022. **(Peer Reviewed)**
25. **D.Sudhakar, Dhiraj Sunehra**, ^{SMIEEE}, “**A Traffic-Aware and Power-Saving Base Station Switch off Method for Cellular Networks**”, Proceedings of the 7th International Conference on Communication and Electronics Systems (ICCES 2022), organized by PPG Institute of Technology, Coimbatore, Tamil Nadu, India during 22 – 24, June 2022. ISBN: 978-1-6654-9633-9, **IEEE Conference & Scopus Indexed, 2022.**

FACULTY PUBLICATIONS CONTD...

International Conferences:

1. E.N.V. Purna Chandra Rao and **Dr S.P Singh**, “**Orthogonal Thirty Two Phase Sequence Sets Design Using MGA**”, ICPAST 22, 21-22 May 2022, IFERP, CMRCET, Hyderabad.
2. **D. Venkat Reddy**, “**Improved Atrial Fibrillation Detection Using CNN-LSTM**”, 6th International Conference on Trends in Electronics and Informatics (ICOEI – 2022), organized by SCAD College of Engineering and Technology, Tirunelveli, India on 28 – 30, April 2022.
3. **Dr.V.Saidulu** , “**Dielectric Cover Thickness Effect on Rectangular Microstrip Patch Antenna**”, Proceedings of the International Conference on Signal Processing and machine Learning Applications (ICSPMLA-2022), Vasavi College of Engineering (Autonomous), Hyderabad, Telangana State, 11th – 12th March 2022. pp. 1-3.
4. **Dr.V.Saidulu**, “**A Comparative Study on Effect of Dielectric Covers on Square Patch Antenna**”, Proceedings of the International Conference on Signal Processing and machine Learning Applications (ICSPMLA-2022), Vasavi College of Engineering (Autonomous), Hyderabad, Telangana State, 11th – 12th March 2022. pp. 4-6. (**Best Paper Award**)
5. **M. Chandrakala**, Miriala Santhosh, “**A Survey of Methods and Techniques in offline Telugu Character Segmentation and Recognition**”, 6th International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2022), held during 22 -23 April 2022, Ahmedabad, India.
6. **V.S.N.Kumar Devaraju**, “**Deep Learning Based Simultaneous Detection and Segmentation for Generic Objects**”, International Conference on Women In Learning and Leadership (IcWILL 2022), organized by National Institute of Technology, Warangal during 08-09 March 2022.

Book Chapters:

1. Rama Krishna Garigipati, **Kasula Raghu**, K. Saikumar, “**Detection and Identification of Employee Attrition Using a Machine Learning Algorithm**”, IGI Global, DOI: 10.4018/978-1-7998-9640-1.ch009. June 2022. (**Book Chapter**).
2. Koppula Srinivas Rao, S. Saravanan, **Kasula Raghu**, V. Rajesh, Pattem Sampath Kumar, “**India’s Remote Medical Monitoring System Using Big Data and MapReduce Hadoop Technologies: Big Data With Healthcare**”, IGI Global, DOI: 10.4018/978-1-7998-9640-1.ch004, June 2022. (**Book Chapter**).

GUEST LECTURES

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 conducted by ECE dept during January to June 2022:

S.NO	NAME OF THE EVENT	DATE	RESOURCE PERSON/ORGANIZATION	NO. OF PARTICIPANTS
1	Guest lecture on “ Define your career path ”	25-04-2022	Pradeep Durga Vannur, Learner-Enterprenuer-Engineer-Mentor	120
2	Guest lecture on “ Basics of Satellite Remote Sensing Technology and Applications ”	27-04-2022	Sri D.V.R.Murthy, Senior Scientist and former Director, Space Application center,NRSE	120

INVITED LECTURES

- **Dr. T. R. Vijaya Lakshmi, Asst. Professor, ECE, MGIT**, delivered a Guest Lecture on “**Content Search methods for Research**” and “**Plagiarism Dos and Don’ts**”, organized by UGC, HRDC, JNTUH, Hyderabad on 21st January 2022.
- **Mr.A.Veerabadhra Rao, Asst. Professor, ECE, MGIT**, delivered a Guest lecture (online mode) on “**Electromagnetic field theory**” for ECE students of KG Reddy College of Engineering, Hyderabad on 20th June 2022.

FDP/STTP/WEBINARS /COURSES ATTENDED BY FACULTY

S. No.	Name of the Faculty Member, Designation & Dept.	Title of the FDP/ Webinars /Workshop/Courses attended	Date(s) of the Event	Organization
1.	Dr D Venkat Reddy, Professor, ECE Dept	FDP on "Recent trends in Artificial Intelligence, IOT and Data analysis"	9 th to 13 th February 2022	Department of Computer Science & Engineering of Shri Vishnu Engineering College for Women (A)
2.	Dr. Ch.Raja, Assoc. Professor, ECE Dept	One Week National Level Online Faculty Development Program (FDP) on "Recent Trends in Artificial Intelligence, IoT and Data Analytics"	9-13, February 2022	Department of Computer Science & Engineering of Shri Vishnu Engineering College for Women (A)
3.	Dr. G.Madhavi, Asst. Professor, ECE Dept	National level online short term training program on "AI and ML"	28 th March to 6 th April 2022,	NIT Warangal
4.	Dr. G.Madhavi, Asst. Professor, ECE Dept	International Webinar on 'Gender equality today for sustainable tomorrow'	8 th March 2022,	WDC, MGIT, Hyderabad
5.	Dr. G.Madhavi, Asst. Professor, ECE Dept	One week FDP on "Machine Learning and its Applications"	28 th March to 1 st April 2022,	CVR college of Engineering
6.	Dr. Fayazur Rahman Mohammad, Assoc. Professor, ECE Dept	One-week AICTE Sponsored online FDP on "Python Programming for 5G Communications"	14-02-2022 to 22.02.2022	Department of Electronics & Communication Engineering, MLRIT, Hyderabad
7.	Dr. Fayazur Rahman Mohammad, Assoc. Professor, ECE Dept	FDP on "AI for Communication and Signal Processing"	5 th to 14 th February 2022	NITW
8.	Dr. Fayazur Rahman Mohammad, Assoc. Professor, ECE Dept	AICTE sponsored Short Term Course on "Data Analysis Using Statistical Learning Techniques"	21/3/22 to 26/3/22,	IIT Madras,
9.	D.V.S.Nagendra Kumar, Asst. Professor, ECE Dept	International Conference on Women in Learning and Leadership (IcWILL 2022), organized by NIT, Warangal	08 & 09 March, 2022	Deep learning based Simultaneous Detection and Segmentation for Generic Objects
10.	D.V.S.Nagendra Kumar, Asst. Professor, ECE Dept	GIAN Course on 'Technology-driven Approaches for Neurodevelopmental and Neurodegenerative Disorders'.	26 th TO 30 th March, 2022	Eminent Speaker: Prof. Koushik Maharatna, Department of ECS
11.	Mr.K. Raghu, Asst. Professor, ECE Dept	Online AICTE-ISTE Induction / Orientation program on Technical "Trends and Recent Advances in Industrial Robotics & Applications"	24 th - 30 th January 2022	VR Siddhartha Engineering College
12.	Mr.K. Raghu, Asst. Professor, ECE Dept	One Week National Level FDP on "Recent Trends in Artificial Intelligence, IoT, and Data Analytics"	9 th to 13 th February 2022,	Department of Computer Science & Engineering of Shri Vishnu Engineering College for Women(A)
13.	Mr.K. Raghu, Asst. Professor, ECE Dept	AICTE-ISTE sponsored Faculty Development Programme on "Python Programming for 5G Communications"	14-22, February, 2022	Department of ECE, MLR Institute of Technology, Hyderabad.
14.	Mr.A.Veerabhadra Rao, Asst. Prof, ECE Dept	FDP on "Advancements in Wireless Communication Technologies Networking and Applications.	21 st to 25 th March22	Online
15.	Ms.D.Subhashini, Asst. Prof, ECE Dept	5 Day National Level Workshop On "Unfolding Vistas In The Research Of Language, Literature And Psychology"	14.02.2022 to 18.02.2022	SRM, Rampuram
16.	Ms.D.Subhashini, Asst. Prof, ECE Dept	International Webinar on 'Gender equality today for sustainable tomorrow'	8 th March 2022,	WDC, MGIT, Hyderabad
17.	Ms.D.Subhashini, Asst. Prof, ECE Dept	Recent trends in IOT	6 to 10th june 2022	MGIT, Hyd
18.	Ms.D.Subhashini, Asst. Prof, ECE Dept	Applications of AI and ML in signal processing and communications	23to 30th june 2022	NIT Warangal and GITAM, Vizag

FDP/STTP/WEBINARS/ COURSES ATTENDED BY FACULTY CONTD...

S. No.	Name of the Faculty Member, Designation & Dept.	Title of the FDP/ Webinars /Workshop/Courses attended	Date(s) of the Event	Organization
19.	Ms.P.Usha Rani, Asst. Prof, ECE Dept	2 Week Online FDP on "AI & Machine Learning for IOT and Computer Vision Applications"	16 th to 25 th January 2022	Electronics & ICT Academy, NIT Warangal in association with Anurag University, Hyderabad.
20.	Ms.P.Usha Rani, Asst. Prof, ECE Dept	One Week Online FDP on "Artificial intelligence, Machine learning and Deep learning Applications"	27 th to 31 st January 2022	NIT Warangal
21.	Ms.P.Usha Rani, Asst. Prof, ECE Dept	2-day workshop on "Research writing using Latex"	16 th & 17 th June 2022,	IEEE MTT-S and AP-S SBC jointly organized, NIT Warangal
22.	Ms.G. Srilatha, Asst. Prof, ECE Dept	ATAL FDP on "Leadership & Excellence"	21st to 25th February 2022	IES's Management College and Research Centre, Mumbai
23.	Ms.G. Srilatha, Asst. Prof, ECE Dept	FDP on "Python Programming for 5 G Communications"	14 th to 22 nd February 2022	MLRIT,Hyderabad
24.	Ms.G. Srilatha, Asst. Prof, ECE Dept	2-day workshop on "Research writing using Latex"	16 th & 17 th June 2022,	IEEE MTT-S and AP-S SBC jointly organized, NIT Warangal
25.	Y Praveen Kumar Reddy, Asst. Prof, ECE Dept	One Week Short Term Training Programme through ICT Mode on Pattern Recognition: Theory & Applications	21- 25 March 2022	NITTTRK
26.	Mr.P.Vinod Reddy, Asst. Prof, ECE Dept	FDP on "Recent Trends in IoT"	06 th to 10 th June 2022,	MGIT-ECE
27.	Ms.Archana Yadav, Asst. Prof, ECE Dept	Webinar on "5G Milli meter wave antenna and circuits using substate integrated coaxial line technology"	25th February 2022	IIT, Jodhpur
28.	Ms.Archana Yadav, Asst. Prof, ECE Dept	STTP on "Remote Sensing for Space and Atmosphere"	25-5-22 to 30-5-22	I.I.T, Indore
29.	Ms.Archana Yadav, Asst. Prof, ECE Dept	FDP on "Recent Trends in IoT"	06 th to 10 th June 2022,	MGIT-ECE

STUDENTS ACHIEVEMENTS

STUDENT PLACEMENTS (AY:2021-22)

Sl.No.	Company	Designation	Campus Date	Pay Package (Rs. In Lakhs per Annum)	No. of ECE students placed
1	Modak Analytics	Software Application Development	14.08.2021	6.00	1
2	Hexaware	Graduate Engineer Trainee	20.09.2021	3.50	8
3	TCS	Software Engineer	12.09.2021	3.50	18
4	Cognizant(Genc)	Software Engineer	04.09.2021	4.00	29
5	Cognizant(Genc Elevate)	Software Engineer	11.09.2021	4.50	8
6	Wipro	Software Engineer	25.09.2021	3.50	54
7	Nomus Communications	Trainee Engineer	13.09.2021	2.00	3
8	*Ademtek	Trainee Intern	19.09.2021	1.20	3
9	Accenture	Advanced ASE	20.09.2021	6.50	5
10	Accenture	ASE	20.09.2021	4.50	23
11	Hyundai Mobis	Graduate Engineer Trainee	12.10.2021	4.50	1
12	Viatech Labs	ROBOTICS RESEARCH INTERN	20.10.2021	3.00	3
13	Brane Enterprise	Associated Solution Leader	26.10.2021	5.00	1
14	Unschool	Operations Executive	30.10.2021	5.00	1
15	Justdial	BDE Role	07.12.2021	3.00	3
16	Byju's	Teaching Faculty	08.12.2021	3.60	6
17	SynoriQ	Software Engineer	09.12.2021	4.50	1
18	Thundersoft	Developer	13.12.2021	4.50	5
19	KEY Solutions (CGLIA)	Full Stack Developer	05.01.2022	5.00	1
20	KEKA	Inside Sales Executive	06.01.2022	4.70	2
21	KEKA	Market Research	06.01.2022	4.00	1

STUDENTS ACHIEVEMENTS CONTD...

STUDENT PLACEMENTS (AY: 2021-22)

Sl.No.	Company	Designation	Campus Date	Pay Package (Rs. In Lakhs per Annum)	No. of ECE students placed
22	SILICONUS TECHNOLOGIES	VLSI Engineer	07.01.2022	3.00	5
23	STICSOF SOLUTIONS	Associate Software Engineer	10.01.2022	5.00	5
24	OPENFIVE	VLSI Engineer	12.01.2022	5.00	1
25	Mindtree	Software Engineer	15.01.2022 & 16.01.2022	4.00	6
26	Brane Enterprises	Java Developer	19.01.2022	5.00	1
27	Ctrl-S	IT/Infrastructure developer	19.01.2022	3.50	2
28	INFOR	Quality Assurance Analyst, Associate Level	20.01.2022	6.50	4
29	Medha Servo	Engineer (Trainee)	24.01.2022	4.49	1
30	Franklin Templeton	Software Engineer	25.01.2022	4.79	3
31	Brane Enterprises	AI Labs Intern	01.02.2022	5.00	1
32	JIO PLATFORMS LTD	Graduate Engineer Trainee	12.02.2022	4.00	3
33	RUBK PVT LTD	Software Engineer - SRE	16.02.2022	70.00	1
34	Innominds	Embedded engineer	24.02.2022	3.25 - 4	3
35	ACL Digital	Software Engineer	11.03.2022	4.50	1
36	Digilogic	Business Development Engineer	22.03.2022	2.76	1
37	HCL Technologies	Software Engineer	15.04.2022	4.25	4
38	Olectra Greentech	Graduate Engineer Trainee	15.05.2022	3.00	1
39	Soctrionics	Trainee engineer	18.05.2022	3.50	1
Total					221

Average Package (in Lakhs): 5.85 LPA

Highest Paid Company : RUBK PVT LTD

Highest Salary – 70 LPA

SPORTS ACHIEVEMENTS

S.NO	Name of the student	Details of Sports	Organization	Date/ achievement
1	T. Venkata Sathwika (19261A04B6)	Throw ball	MGIT	20-06-22 First prize
2	Masa Venkata Srija (19261A0437)	Cricket	MGIT	20-06-22 Second prize
3	Meghana Adapa (19261A04F7)	Throwball	MGIT	27-06-22 Second prize
4	Meghana Adapa 19261A04F7	Table Tennis	MGIT	27-06-22 First prize
5.	k. vinay kumar (18261A04E4)	Throwball	MGIT	27-06-22 First prize
6.	Anisha singh (18261A0463)	Cricket	MGIT	20-06-22 Second prize
7.	Anisha singh (18261A0463)	Throwball	MGIT	27-06-22 First prize
8.	Deepak (19261A0401)	Kabadi	MGIT	27-06-22 First prize
9.	p.Sreeja (20261A0440)	Cricket	MGIT	20-06-22 Second prize
10.	Sriram kaushik (20261A0417)	Cricket	MGIT	27-06-22 First prize
11.	A.Ravinder (20261A0462)	Carroms	MGIT	27-06-22 Second prize
12.	A.Ravinder (20261A0462)	Cricket	MGIT	27-06-22 Second prize
13.	P.Charan (21261A04A4)	Cricket	MGIT	27-06-22 First prize
14.	M.Mourya Deepak (19261A0401)	Carroms	MGIT	27-06-22 Second prize
15.	Ashok (20261A0492)	Kabbadi	MLRIT	04-05-2022 Second prize
16.	A.Ravinder (20261A0462)	Kabbadi	MLRIT	04-05-2022 Second prize

GRE/TOFEL/GATE/CAT/IELTS INFORMATION

Name of the Student	GRE	IELTS	GATE Rank	CAT	Date
	(340)			(Percentile)	
B.Rohith Reddy (18261a0403)	321			97.13	16-03-2022
A.Naga Shashank (19265A0401)	290				23-06-2022
S.Dhanush (18261A0450)	322				05-07-2022
G.Sanjay Teja (18261a0416)			3995		14-03-2022
G.Adithya (18265A0418)	326				02-01-2022
A.Chaitra (18261a0401)		6.0			27-03-2022
K.Swardheek (18261a04e1)				88.44	28-05-2022
Shareef Amer (18261A04C4)	325	7.5			05-02-2022
Keerthi Kaushik.N (18261A04G2)		7.0			03-01-2022
Venkata Shiva Hitesh Reddy (18261A04D7)		7.0			21-05-2022
G.Nithisha (18261A0419)	323				27-01-2022
G.Nithisha (18261A0419)	324				04-05-2022
V Harsha Vardhan (18261a0458)	324				16-06-2022
Udaya Sri Mandadapu (18261a0456)	319				07-03-2022
Mohana Sai (18261A0406)		6.5			26-06-2022
G.Nikhil (18261A0497)		7.0			09-06-2022
Akshitha Katukuri (18261A04E0)	321	6.5			13-02-2022
Kuncham Jayakrishna Sai (1826104F0)			1587		
Total no of Score cards	10	07	02	02	

WORKSHOPS/WEBINARS/TECHNICAL ACHIEVEMENTS

S.No.	Name of the student	Details of Workshop/Webinars event	Organization	Date/ Achievement
1	A.Harsha Vardhan Reddy (21261A0468)	Course on Python Data Structures-course	COURSERA	17-05-2022 Completed successfully
2	A Vivekananda Reddy (21261A0401)	PPT Presentation on Obstacle Avoider using Aurdino-Microcosm 2022	MGIT-ECE	30-06-2022 Participation
3	Siddartha Gollapalli (21261A0422)	C language-course	SOLOLEARN	19-05-2022 Completed successfully
4	Banoth Nanduja (21261A0476)	Course on Python for everybody-course	COURSERA	13-05-2022 Completed successfully
5	K. Sidhi Sree (21261A0427)	Course Python for everybody-course	COURSERA	29-05-2022 Completed successfully
6	Annaldas sai prashanth (21261A0467)	Course on Programming Foundations with JavaScript, HTML and CSS-course	COURSERA	26-05-2022 Completed successfully
7	A.Harsha Vardhan Reddy (21261A0468)	PPT Presentation on Artificial Intelligent-Microcosm 2022	MGIT-ECE	30-06-2022 Participation
8	Vadderaju Tarun (21261A04C5)	PPT Presentation on Artificial Intelligent -Microcosm 2022	MGIT-ECE	30-06-2022 Participation
9	Vadderaju Tarun (21261A04C5)	Quizze Buzzie-Microcosm 2022	MGIT-ECE	30-06-2022 Winner
10	P.Deepika Reddy (21261A04B0)	Webinar on "Food Processing Machines Manufacturing and Technologies"	IETE, HYDERABAD CENTRE	09-01-2022 Participation
11	K. Sidhi Sree (21261A0427)	Webinar on "New Product Specifications-An Innovator's Perspective"	IETE, HYDERABAD CENTRE	02-01-2022 Participation
12	K. Sidhi Sree (21261A0427)	PPT Presentation on Power Generation from Speed Breaker-Microcosm 2022	MGIT-ECE	30-06-2022 Winner
13	M V Sai Prathusha (21261A0439)	PPT Presentation on Global Technology-Microcosm 2022	MGIT-ECE	30-06-2022 Participation
14	P Srujan Reddy (21261A04B3)	Problem Solving Through Programming In C	NPTEL	Jan-Apr 2022 Completion
15	A Vivekananda Reddy (21261A0401)	Project Expo-Microcosm 2022	MGIT-ECE	30-06-2022 Participation
16	P.Sadhwika (20261A04G3)	Course on Algorithm tool box	COURSERA	04-06-2022 Completion
17	A.Saikumar (20261A0463)	Course on java programming	COURSERA	03-05-2022 Completion
18	P.Sadhwika (20261A04G3)	Course on programming for everybody	COURSERA	15-05-2022 Completion
19	P. Sreeteja (20261A0440)	Course on HTML,CSS and JavaScript for web developers	COURSERA	30-04-2022 Completion
20	K.Poojitha (20261A04E7)	Course on programming for everybody	COURSERA	16-05-2022 Completion

WORKSHOPS/WEBINARS/TECHNICAL ACHIEVEMENTS CONTD...

S.No.	Name of the student	Details of Workshop/Webinars event	Organization	Date/ Achievement
21	P.Vamsi Krishna (20261A04G5)	Online course on C++ programming for beginners	UDEMY	14-04-2022 completion
22	P.Vamsi Krishna (20261A04G5)	Online course on Cyber security	1 STOP	19-01-2022 participation
23	P.Vamsi Krishna (20261A04G5)	Online course on Basic to advanced python programming	ED SPREAD	09-04-2022 to 12-05-2022 completion
24	P.Vamsi Krishna (20261A04G5)	Internship on Cyber security	TALKUNCHI	10-01-2022 to 10-03-2022 completion
25	P.Vamsi Krishna (20261A04G5)	Online course on learn python	UDEMY	14-05-2022 completion
26	P.Vamsi Krishna (20261A04G5)	Online course on java script for beginners	UDEMY	21-04-2022 completion
27	P.Vamsi Krishna (20261A04G5)	Online course on java python course training programme	UDEMY	14-05-2022 completion
28	G.Kushal (20261A04E1)	Course on Data Every where	COURSERA	22-04-2022 completion
29	G.Kushal (20261A04E1)	Course on data analysis with python	COURSERA	09-05-2022 completion
30	G.Kushal (20261A04E1)	Course on What is Data science?	COURSERA	18-04-2022 completion
31	G.Kushal (20261A04E1)	Course work on Data analysis with python	FREECODE CAMP	05-04-2022 completion
32	Nithin (20261A04B6)	Event on Technofusion	MGIT	30-06-2022 runner
33	Tarun (20261A04D5)	Event on Circuit Hunt	MGIT	30-06-2022 winner
34	Chakradhar (20261A0404)	Event on Think and connect	MGIT	30-06-2022 runner
35	K.Gopavaram (20261A04E1)	Course on builders online series	AWS	20-06-2022 Participation
36	G.Kushal (20261A04E1)	Seminar on resolution on Basic Of graphic design	ADOBE CLUB MGIT	01-04-2022 Participation
37	B.Shiva Prasad (20261A04D2)	Workshop on Drone designing and manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
38	B.Aishwarya (20261A0407)	Workshop on Drone designing and manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
39	A.Chandragiri sai (20261A0404)	Workshop on Drone designing and manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
40	P.Sreeteja (20261A0440)	Workshop on Drone designing and manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
41	G.Sathvik (20261A0416)	Workshop on Drone designing and manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
42	D.Spandana (19261A04F7)	Workshop on Drone designing and manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
43	Meghana Adapa (19261A04F7)	Workshop on Drone designing and manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation

WORKSHOPS/WEBINARS/TECHNICAL ACHIEVEMENTS CONTD...

S.No.	Name of the student	Details of Workshop/Webinars event	Organization	Date/ Achievement
44	Roja (19261A04F4)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
45	D Amulya (19261A04D5)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
46	Devandla SaiSumanth (19261A04I5)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
47	K. Lasya priya (19261A04E4)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
48	Nenavath sampoorana (20265A04I1)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
49	Keerthana (20265A04I0)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
50	Keerthi patil (19261A04E6)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
51	P.Chandana sree (19261A04G5)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
52	U.Swathi prasanna (19261A04H7)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
53	Javvaji likitha (20265A0408)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
54	Mula Rashmika (20265A0409)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
55	Renikunta Mounika (19261A04A6)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
56	V.Ruthika (19261A04H9)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
57	P.Ramya (19261A04G4)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
58	Atcha Tejaswini (19261A04C3)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
59	Bellamkonda Greeshma (19261A04C6)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
60	G D Yashwanthi (20265A04I4)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
61	Ch. Sai Vamshi krishna (20265A0407)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation

WORKSHOPS/WEBINARS/TECHNICAL ACHIEVEMENTS CONTD...

S.No.	Name of the student	Details of Workshop/Webinars event	Organization	Date/ Achievement
62	Boggula Bhumika (19261A04C8)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
63	Surakanti Madhu Varshini (19261A04H4)	Workshop on Drone Designing and Manufacturing	SKYY RIDER INSTITUTIONS	22-04-2022 to 23-04-2022 Participation
64	SaiVarun.K (18261A0421)	Internship on full stack web development	SHAPEAI	10-05-2022 to 20-06-2022 completion
65	P.Tarun (18261A04G9)	Internship on Internet of Things	ZOHO CORPORATION PRIVATE LIMIED	14-04-2022 to 20-06-2022 completion
66	G.SanjayTeja (18261A0416)	Internship on Internet of Things	OPEN SILLICON	16-05-2022 to 20-06-2022 completion
67	Ch.Mahendar (18261A0410)	Internship on Internet of Things	INFOR PRIVATE LIMITED	04-04-2022 to 20-06-2022 completion
68	M.Shaik (19265A0416)	Internship on Cloud Computing	ZOHO CORPORATION PRIVATE LIMITED	14-04-2022 to 20-06-2022 completion
69	S A Sujith (18261A0445)	Internship on Internet of Things	CLOUD 4C	08-02-2022 to 20-06-2022 completion
70	SaiVarun (18261A0421)	Internship on Full Stack Development	SHAPEAI	10-9-2021 to 20-10-2021 completion
71	S. Abhishek Sagar (18261A04A9)	Project on Study of instrumentation system used for testing of propulsion system	DIRECTORATE OF INSTRUMENTATION, DRDL, HYDERABAD	09-05-2022 to 30-05-2022 completion
72	S. Abhishek Sagar (18261A04A9)	Project Expo-Microcosm 2022	MGIT	30-06-2022 completion
73	Akshita Divvesaram (18261A04E0)	Internship on Sales developer	CONNEXER	27-04-2022 completion
74	D Govindu (18261A0414)	Internship on Sales Development	KEKA TECHNOLOGIES PVT. LTD.	24 -01- 2022 completion
75	Vaishnavi Peri (18261A04A3)	Project Expo-Microcosm 2022	MGIT	30-06-2022 completion
76	Sujith Kumar (18261A04B9)	Course on Machine learning using python programming	UDEMY	15-05-2022 completion
77	Ameesha (18261A0463)	Project Expo-Microcosm 2022	MGIT	30-06-2022 completion
78	Y DurgaBhavani (18261A04B3)	Internship on Machine Learning	1 STOP	05-03-2022 to 10-05-2022 completion

WORKSHOPS/WEBINARS/TECHNICAL ACHIEVEMENTS CONTD...

S.No.	Name of the student	Details of Workshop/Webinars event	Organization	Date/ Achievement
79	Akkaldevi Anirudh (18261A0461)	Internship on AHB2APB Bridge RTL design using Verilog HD	SILICON SOFT TECH	20-07-2022 completion
80	Sagar Lalwani (19261A04G9)	Internship on Robotics	VYORIUS	10-01-2022 to 10-03-2022 Completion
81	Sagar Lalwani (19261A04G9)	Internship on Web Development	RISE DIGITAL	10-01-2022 to 10-03-2022 Completion
82	Sagar Lalwani (19261A04G9)	Internship on Artificial Intelligence	PERSONIFWY	05-04-2022 to 05-06-2022 Completion
83	K Rohith Reddy (19261A0479)	Internship on Python Course	VERZEO	02-02-2022 to 30-3-2022 Completion
84	Kudithetti Monika (19261A0480)	Internship on Artificial Intelligence	PERSONIFWY	05-04-2022 to 05-06-2022 Completion
85	D. Spandana (19261A0467)	Internship on Data science	SMART KNOWER	01-04-2022 to 31-05-2022 Completion
86	E Varshitha (19261A0417)	Internship on Data Science with python	SMART KNOWER	01-04-2022 to 31-05-2022 Completion
87	Avyaja Reddy (19261A0408)	Internship on Data science	SMART KNOWER	01-04-2022 to 31-05-2022 Completion
88	Nukala Naga Sai Hemanth (19261A0443)	Internship on Data science	SMART KNOWER	01-04-2022 to 31-05-2022 Completion
89	K Sreeja (19261A0425)	Internship on Data science	SMART KNOWER	01-04-2022 to 31-05-2022 completion
90	B Saiteja (19261A0409)	Internship on Data science	SMART KNOWER	01-04-2022 to 31-05-2022 Completion
91	M Rahul Naidu (19261A0433)	Internship on Data science	SMART KNOWER	01-04-2022 to 31-05-2022 Completion
92	Manchala Uday Kiran (19261A0436)	Internship on Data science	SMART KNOWER	01-04-2022 to 31-05-2022 Completion
93	Mulukutla Mukund Kashyap (19261A0432)	Internship on Data science	SMART KNOWER	01-04-2022 to 31-05-2022 Completion
94	Vyshali Pagadala (19261A0459)	Internship on Data science	WISSENAIRE IIT BHUBANESHAH	01-03-2022 to 30-04-2022 completion

ALUMNI ACHIEVEMENTS

List of students joined in higher studies from January to June 2022

S.No.	Roll Number	Student Name	Higher Studies	University/Institution &Place
1	17261A0463	A Sasi Krishna	MS	Southern Missouri State University,USA
2	17261A0483	M Niraj	MS	The university of Texas at dallas,USA
3	17261A0487	M Aakash	MS	Arizona state university,USA
4	17261A0492	P Yugandhar	MS	Cleveland State University,USA
5	17261A0493	P Mounika	MS	University of Bridgeport,USA
6	17261A0477	P Sreerama Varma	MS	Southern Missouri State University,USA
7	17261A04A9	Sathwick	MS	Southern Illinois University,USA
8	17261A04B4	V Divya Sri	MS	University of NorthTexas ,USA
9	17261A04B7	V Dedeepya	MS	The university of Texas at dallas,USA
10	17261A04C0	Y.Nagaveni	MTech	CBIT,Hyderabad
11	17261A04C2	A.Adhrushta	MS	Northeastern university college of Engineering,USA
12	17261A04E1	Jaideep K	MS	University of Texas Arlington,USA
13	17261A04F1	K Charan	MTech	IIT,Madras,INDIA
14	17261A04G1	N Lakkshmikanth	MTech	IIT,Guawahati,INDIA
15	17261A04H2	P Greeshma Reddy	MS	University of Misssouri,KC,USA
16	17VE1A0496	M Sai Laxmi	MTech	CBIT,Hyderabad

EVENTS ORGANIZED BY THE DEPARTMENT

Webinars, Workshops, FDPs, STTP & Alumni Meet conducted by ECE dept during January to June 2022:

S.No.	Name of the Event	Date	Organized	No. of Participants
1.	Alumni Meet(online)	8 th January 2022	Dept. of ECE, MGIT	21
2.	Workshop on “Drone Design and Manufacturing”	22 nd & 23 rd April 2022	Dept. of ECE, MGIT in association with IETE Student Forum (ISF) – MGIT and Skyy Rider Institutions	117
3.	FDP on “Recent Trends in IoT”	6 th to 10 th June 2022	Dept. of ECE, MGIT	200
4.	Department Technical Fest “MICROCOSM-2022”	30 th June 2022	Dept. of ECE, MGIT	523

Co-curricular & Extracurricular Activities for B.Tech II, III & IV Years from January to June 2022:

S.No.	Date	Event Name	No. of Students participated
1.	23-04-2022	Group Discussion	36
2.	09-04-2022	Aptitude Test	42
3.	25-06-2022	Role Play	25
4.	18-03-2022	Training Program on ‘IoT & Embedded systems’	40
5.	09-03-2022	24-hour Smart India Internal Hackathon for SIH-2022	200

FORTHCOMING EVENTS

Tentative schedule of Extracurricular Activities for ECE II, III & IV Year Students (2021-22):

S.No	Date	Name of the Event
1.	09-07-2022	Technical Quiz
2.	23-07-2022	Aptitude Test-1
3.	17-09-2022	Aptitude Test-2
4.	27-09-2022	Role Play
5.	15-10-2022	Group Discussion
6.	29-10-2022	Seminar on General topics
7.	26-11-2022	GATE Mock Test
8.	10-12-2022	Debate

PHOTOGRAPHS



Department of ECE, MGIT has conducted a workshop on **“Drone Designing and Manufacturing in association with IETE Student Forum-MGIT & Sky Rider”** on 22nd and 23rd April 2022.



Dept. of ECE and Dept. of CSE has successfully conducted a **“24-hour Smart India Internal Hackathon for SIH-2022”** on 09-03-2022.

PHOTOGRAPHS CONTD...



Department of ECE, MGIT has successfully conducted **“Project Expo on 30th June 2022”** as part of **MICROCOSM-2K22**(Yearly department Fest).



Students explaining their prototype to the Judges during **“Project Expo on 30th June 2022”** as part of **MICROCOSM-2K22**(Yearly department Fest)

PHOTOGRAPHS CONTD...



CONQUERORS OF SMART INDIA HACKATHON 2022



Students of Mahatma Gandhi Institute of Technology (MGIT, Hyderabad) secured the first position in **Smart India Hackathon-2022 Software Edition** during **24th and 25th August 2022**. A 2-day National-Level-Competition organized by MHRD (Ministry of Human Resource Development).

About 250 teams over 75- centres from various engineering colleges, IIT's and NIT's from all over India have participated in this programme for smart solution to problems defined by Govt. of India. "Talla Padmavathi College of Engineering, Kazipet being one of the Nodal Centre in which the Team **"Heapifiers"** from **Mahatma Gandhi Institute of Technology, Hyderabad** students bagged the first prize for resolving the problem statement defined by Ministry of Electronics and Information Technology(MEITY).

The team was awarded a cash prize of Rs. 50,000/-. Shri Tarun Joshi, Commissioner of Police, Warangal and Dr. Shanta Thoutham, Chief Innovation Officer, Telangana Innovation Cell has given away the prizes and the token amount. The award winning team members included **V. Ch. Manish Kumar (CSE), Sagar Lalwani (ECE), P. Venkat Charan (CSD), Md. Mubashiruddin (CSD), G. Prerana (CSD), E. Pujitha (CSE)**. Faculty members **Mr. K. Bapayya (ECE) and Y. Pavan Narashimha Rao (CSE)** were mentors for the team.



PHOTOGRAPHS CONTD...



**Hands-On training program on “IoT and Embedded Systems”
by Mr. K. Bapayya, Asst. Professor, ECE during 18th March 2022**



**Hands-On training program on “IoT and Embedded Systems”
by Mr. B. Kesava Rao, Asst. Professor, ECE during 18th March 2022**

PHOTOGRAPHS CONTD...



Department of ECE, MGIT has conducted an “Alumni Meet” on 8th January 2022.

PRESS NOTE

ఎంజీఐటీ కళాశాల వార్షికోత్సవం

నార్సింగ్, జూన్ 30 (ఆంధ్ర జ్యోతి): గుడిపేటలోని ఎంజీఐటీ ఇంజనీరింగ్ కళాశాలలో ‘నిర్వహణ - 2022’ వార్షికోత్సవాన్ని గురువారం నిర్వహించగా, ప్రిన్సిపాల్ ప్రొఫెసర్ జయశంకర్ ఉత్సవాలను ప్రారంభించారు. ఈ సందర్భంగా నేషనల్ లెవెల్ టెక్నికల్ సింపోసియా మెటాలాన్, ఐడియాసిస్ తదితర కార్యక్రమాలు నిర్వహించారు. జూలై 1న క్రీడా దినోత్సవాన్ని నిర్వహిస్తున్నట్లు నిర్వహకులు తెలిపారు. జూలై 2న కళాశాల వార్షికోత్సవం నిర్వహించనున్నారు. పలువురు సెలబ్రీటీలు హాజరవుతున్నట్లు నిర్వాహకులు తెలిపారు.



జ్యోతి ప్రజ్వలన చేస్తున్న
జయశంకర్ తదితరులు

Andhra Jyothi 1-7-2022

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.