Bonam Venkata Chalamayya Engineering College(Autonomous), Odalarevu-533210

योगः कर्मसु कौशलम्

Department of Electronics and Communication Engineering

July-Dec 2024 | Volume No. 18 | Issue 1



ECE Times Newsletter

Insights. Innovations. Impact.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ECE BLOCK



Vision of the Department

To produce globally competent and ethically responsible Electronics and Communication Engineers capable of developing innovative, sustainable, and intelligent communication and electronic technologies to meet industrial and societal needs.

Mission of the Department

M1: To provide a robust academic environment through learner-centric pedagogy, state-of-the-art laboratory infrastructure, and exposure to emerging technologies like VLSI, IoT, and AI-driven communication systems.

M2: To bridge the gap between academia and industry by fostering collaborative research, innovation, and entrepreneurship through hands-on technical training and real-world problem-solving in electronic and communication technologies.

M3: Toinstill a strong sense of professional ethics, leadership, and lifelong learning in students, enabling them to develop sustainable and intelligent engineering solutions that address global societal and environmental challenges.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

HOD's Desk



Dear Students, Faculty Members and Alumni,

It gives me immense pleasure to present the First issue of the Half yearly ECE Times Newsletter of the department**.** This issue reflects the continued growth, achievements, and vibrant academic and professional activities of the Department of Electronics and Communication Engineering.

The department remains committed to fostering academic excellence, innovation, research, technical competency, and holistic development among our students. Over the past year, our students and faculty members have actively participated in and contributed to a wide range of academic and co-curricular activities, including technical events2, workshops, seminars, internships, projects, publications, patents, competitions, and industry-oriented initiatives.

This second issue provides a glimpse into the achievements, milestones, innovations, and memorable activities that have shaped our department. It is a testimony to the dedication and collaborative spirit of our faculty members, students, and alumni. I sincerely appreciate the efforts of the editorial team for bringing together these accomplishments and presenting them in an engaging and meaningful manner.

I believe that this newsletter will serve not only as a record of our collective journey but also as a source of motivation and inspiration for our students to explore new ideas, embrace emerging technologies, pursue research and innovation, and strive for excellence.

I extend my heartfelt appreciation to all faculty members, students, and alumni whose valuable contributions have strengthened the department and enriched its academic environment. I congratulate everyone on their accomplishments and encourage our students to continue learning, innovating, and pursuing their aspirations with confidence and determination.

I wish the **ECE Department** continued success and greater achievements in the years ahead.

With best wishes,
Dr. Thoram Saran Kumar
Head of the Department & Associate Professor
Bonam Venkata Chalamayya Engineering College,
Odalarevu

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Semester Toppers

TOPPERS LIST IV B. TECH I SEMESTER

S.No	HTNo	NAME OF THE STUDENT	SGPA	RanK
1	21221A0419	BavireddiSankararao	9.22	1
2	21221A04J6	Yerramsetti S V N L Sailaja	9.22	1
3	21221A0409	Akana Jyothi Naga Sivaji	8.96	2
4	21221A0441	Chollangi Chandrika Lakshmi Madhu	8.96	2
5	21221A0456	Golakoti Deepthi	8.96	2
6	21221A0403	Adabala Naga Ushasri	8.83	3
7	21221A0442	Chollangi Sneha Siva Durga Padmini	8.83	3
8	22225A0408	Dodda Bala Satya Akanksha	8.83	3



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Semester Toppers

TOPPERS LIST III B. TECH I SEMESTER

S.No	HTNo	NAME OF THE STUDENT	SGPA	Rank
1	22221A0437	Chodapaneedi Parvathi Devi	8.74	1
2	22221A0452	Dulipudi Pavani VeeraSatya	8.74	1
3	22221A04H8	Yelamarthi Satya Vasavi	8.74	1
4	23225A0407	Kancharla Lakshmi Devi	8.74	1
5	22221A0411	Akula Uma Krishna Veni	8.6	2
6	22221A0438	Chodapaneedi Rohith S V Mani Atchuth	8.6	2
7	22221A04H7	Yedla Sasi Priyanka	8.6	2
8	23225A0414	Mutyala Dhana Durga	8.6	2
9	23225A0417	Sanaka Maheswari	8.6	2
10	22221A0444	Dangeti Mounika	8.47	3
11	22221A0473	Kancherla Durga Devi	8.47	3
12	22221A0481	Katta Gowri Priya	8.47	3
13	22221A0482	Katta SaiSrinivas Raghu Praveen	8.47	3
14	22221A04B0	Motupalli Archana S.V.lakshmi Manga	8.47	3
15	23225A0418	Vadaparthi SaiDurga Vaishnavi	8.47	3
16	23225A0420	Androthu Veera Venkata Padmini	8.47	3

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Semester Toppers

TOPPERS LIST II B. TECH I SEMESTER

S.No	HTNo	NAME OF THE STUDENT	SGPA	Rank
1	23221A04F6	Rankireddy Gayathri Deepika	9.1	1
2	23221A04C3	NimmakayalaSai Lakshmi Mownika	8.95	2
3	23221A04I8	Yedida VenkataSaiTharun	8.95	2
4	23221A0424	Bollireddy Rajkumar	8.8	3
5	23221A0447	Dasari Srirama Krishnaveni	8.8	3
6	23221A0457	Dulam Sri Venkata Harisha	8.8	3
7	23221A04A1	Manchiganti Harika Manga Tayaru	8.8	3
8	23221A04B9	Nalla Bhavya Naga Anjali	8.8	3

TOPPERS LIST II B. TECH I SEMESTER

S.No	HTNo	NAME OF THE STUDENT	SGPA	Rank
1	24221A0463	IsukapatlaGowtham	9.85	1
2	24221A0499	Mandela Sri Latha	9.69	2
3	24221A04B5	NagabathulaYamini	9.46	3

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVENTS ORGANIZED





National Level Technical Event on Electronic Impulse–2k24 organized by the TechSphere Club of BVCE on 22/09/2024 to 23/09/2024 in the presence of the Chief Guest Dr.G.Prasanna kumar, Professor, Department of ECE, SRKR Engineering College, Bhimavaram.







One day Guest Lecture On Semi Conductor Devices In Biomedical Applications (Online Mode), organised by Albert Einstein ECE club, 1/8/2024.Chief Guest for this Guest Lecture is Dr.Karumuri SrinivasaRao, Professor, Head of MEMS Research Center, Department of ECE K L University, Vijayawada.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVENTS ORGANIZED





One day Guest Lecture On Introduction To Antenna Theory And Wave Propagation, organized by Albert Einstein ECE club, 25/7/2024.Chief Guest for thisGuest Lecture is Dr D. Vakula, Professor, Department of ECE,NIT Warangal.



One day Workshop On Entrepreneurship And Innovation As A Career Opportunity Organised By ISTE Club During 09/09/2024The Resource Person Is DrG.Ravi Kiran Sastry Director, Research and Consultancy, NIT(AP)



One day seminar on Excelling in the art of Teaching: Beyond Lecture organised during 2/7/2024 The resource person is Dr. Sripada Rama krishna Professor, Department of S&H , BVCE.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Students Participation / Achievements

S.No	Name of the Student	Event / Program	Date	Position / Status
1	Thota Hemanth	24-hour National Level Hackathon 1.0	30/8/2024 to 31/8/2024	Participated
2	Adapa Phani Venkata Siddhardha	Hackathon 2024	21/9/2024	Participated
3	Katru Sri Hartheek	Hackathon 2024	21/9/2024	Participated
4	Kodeti Mahesh	Hackathon 2024	21/9/2024	Participated
5	Undi Gowri Krishna Durga Devi	Hackathon 2024	21/9/2024	Participated
6	Raavi Gopichand	Hackathon 2024	21/9/2024	Participated
7	Kadali Jahnavi Veera	Hackathon 2024	21/9/2024	Participated
8	Kollu Kanaka Mahalakshmi	Hackathon 2024	21/9/2024	Participated
9	Kamisetti Rupesh Durga Subrahmanyam	Hackathon 2024	21/9/2024	Participated
10	Kantamsetti Siddi Vilas	Hackathon 2024	21/9/2024	Participated
11	Mane Naga Venkata Sai Pavan	Hackathon 2024	21/9/2024	Participated
12	Rankireddy Gayatri Deepika	Science Mela	12/12/2024	Third
13	Mandela Naveen saikrishna	Science Mela	12/12/2024	Third
14	P. Naga Tarun Kumar	Innovative Project Intro-PHASORS 2K24	28/10/2024 to 30/10/1014	First Prize
15	R GAYATRI DEEPIKA	Innovative Project Intro-PHASORS 2K24	28/10/2024 to 30/10/1014	Participated

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY FDPS/WORKSHOPS/SEMINARS/TRAINING PROGRAMS ATTENDED

S.No.	Name of The Faculty	Fdp /Workshop/Seminars/Training Program/Conference	Duration
1	DR. AKULA PRAVIN	.Emerging trends in electronic circuit design, signal processing and communication	1/7/24 to 6/7/24
		Usage of deep learning, machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
3	DR. KUSUMA RAJA SEKHAR	Emerging trends in electronic circuit design, signal processing and communication	1/7/24 to 6/7/24
		Usage of deep learning ,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
4	DR. VALLURI DHANARAJ	Emerging trends in electronic circuit design, signal processing and communication	1/7/24 to 6/7/24
5	DR. NAMBURI SATYA NAGENDRA LAKSHMIPATHI RAJU	Emerging trends in electronic circuit design, signal processing and communication	1/7/24 to 6/7/24
6	DR. THORAM SARAN KUMAR	Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
7	DR. MANDEM NOMITHA REDDY	Usage of deep learning, machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
8	MRS. CHAVAKULA SRIDEVI	Cryptography and network security: principles and its applications	18/11/24 to 23/11/24
9	MR. YANDAMURI SAI SANDEEP	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
		2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
10	MS. GUBBALA LAKSHMI DURGA	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
		2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY FDPS/WORKSHOPS/SEMINARS/TRAINING PROGRAMS ATTENDED

S.No.	Name Of The Faculty	Fdp /Workshop/Seminars/Training Program/Conference	Duration
11	MS. TIKKIREDDY SRI SATYA MOUNIKA	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
		2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
12	MS. SEELAM NAGA BHARGHAVI	Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
13	MR. GIDLA SUDHEER BABU	Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
14	MS. KANAKALA SIVARANJINI	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
		2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
		3.Advanced materials and emerging technologies from electronics to sustainable energy solutions	23/9/24 to 28/9/24
15	MS. KANKIPATI SWATHI	1.Advanced materials and emerging technologies from electronics to sustainable energy solutions	23/9/24 to 28/9/24
		2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
16	MS. DUNABOYINA TULASI	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
		2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
17	MS. SABBATHI LEELAVENI	2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
18	MS. KONDAMURI NAGA TEJA	Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
19	MISS KONDAMURI PURNA SIDHU	Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY FDPS/WORKSHOPS/SEMINARS/TRAINING PROGRAMS ATTENDED

S.No.	Name Of The Faculty	Fdp/Workshop/Seminars/Training Program/Conference	Duration
20	MRS. NALLA RATNA PRIYA	2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
		1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
21	MR. PARAMKUSAM ARUDRA	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
22	MRS. BALLA NAGA LAKSHMI	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
23	NAKKA SWAMY DATTAREYACHARI	2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
		1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
		2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
24	BONTHU CHANDRA PRAVEEN	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
		2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
25	GUBBALA ASHA	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24
		2.Usage of deep learning,machine learning and artificial intelligence towards smart mobility	16/12/24/to 21/12/24
26	PEYYELA RAJESH	1.Emerging trends in electronic circuit design,signal processing and communication	1/7/24 to 6/7/24

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY JOURNAL/CONFERENCE PUBLICATIONS

1. Akula Pravin, Inukonda Rama Satya Nageswara Rao and **Kanakala Sivaranjini** "Embedded system - based restaurant automation," IJERSM, vol.3, issue 4, 2024,pp. 29-32, doi:https://doi.org/10.58482/ijeresm.v3i4.4ISSN: 2583-4894.(UGC)**29-32, Oct-Dec 2024.**

2. Pangam Harika, Mandem Nomitha Reddy and **Kankipati Swathi**, " IOT based women safety device," IJERSM, vol.14, issue 4, 2024,pp. 20-30,2024,ISSN: 2277-2685.(UGC).

3. Chavakula Sridevi and **Kompella Bhaskara Srinivasa Sarma,** "empowering womens safety with smart IOT Technology," IJERSM, vol.14, issue 4, 2024,pp. 47-58,2024,ISSN: 2277-2685.(UGC).

4. Namburi Satya Nagendra Lakshmipathiraju and **Vallabhareddi Sandhya,** "SMART HOME AUTOMATION," IJESR, vol.14, issue 4, 2024,pp. 31-38,2024,ISSN: 2277-2685.(UGC).

5. Kompella Bhaskara Srinivasa Sarma and **Nimmana Lakshmi Priyanka,** "IOT Based And Intelligent CAR Parking System," IJERSM, vol.14, issue 4, 2024,pp. 10-19,2024,ISSN: 2277-2685(UGC).

6. Namburi Satya Nagendra Lakshmipathiraju and **Marisetty Mounika Varalakshmi,** "IOT BASED ENERGY METER," IJESR, vol.14, issue 4, 2024,pp. 39-49,2024,ISSN: 2277-2685.(UGC).

7. Kompella Bhaskara Srinivasa Sarma and **Nimmana Lakshmi Priyanka,** "IOT Based And Intelligent CAR Parking System," IJERSM, vol.14, issue 4, 2024,pp. 10-19,2024,ISSN: 2277-2685(UGC).

8. G.Sukanya, "an intelligent robot for environment monitoring based on IOT,"in Proceedings of the 2024, IEEE-Explore(ICCECA), ISBN No.: 979-8-3503-6790-4. URL: https://ieeexplore.ieee.org/document/10801162.

9.Thoram Saran Kumar and **GosangiSukanya**"IOT BASED SMART GREEN HOUSE," IJESR, vol.14, issue 4, 2024,pp.1-9, doi:https://doi.org/10.58482/ijesr.v14i4.4,ISSN: 2277-2685.(UGC).

10. **Kusuma Raja Sekhar**, **GidlaSudheerBabu,Nimmana Lakshmi Priyanka**and**Seelam Naga Bharghavi**, "DESIGN AND IMPLEMENTATION OF AN AUTONOMOUS WHEELCHAIR WITH MEDICAL KIT ACESS USING RESPBERRY Pi," IJERSM, vol. 3,issue 4, 2024,pp.29-32,2024,ISSN: 2583-4894.(UGC).

11.. **PangamHarika, MandemNomitha Reddy** and **KankipatiSwathi**, " IOT based women safety device," IJERSM, vol.14, issue 4, 2024,pp. 20-30,2024,ISSN: 2277-2685.(UGC).

12. ChavakulaSridevi and **KompellaBhaskaraSrinivasaSarma,** "empowering womens safety with smart IOT Technology," IJERSM, vol.14, issue 4, 2024,pp. 47-58,2024,ISSN: 2277-2685.(UGC).

13.Namburi Satya Nagendra Lakshmi pathi rajuand **VallabhareddiSandhya,** "SMART HOME AUTOMATION," IJESR, vol.14, issue 4, 2024,pp. 31-38,2024,ISSN: 2277-2685.(UGC).
[6]. **Kompella Bhaskara Srinivasa Sarma** and **Nimmana Lakshmi Priyanka,** "IOT Based And Intelligent CAR Parking System," IJERSM, vol.14, issue 4, 2024,pp. 10-19,2024,ISSN: 2277-2685(UGC).

14.**Namburi Satya Nagendra Lakshmi pathiraju**and **MarisettyMounikaVaralakshmi,** "IOT BASED ENERGY METER," IJESR, vol.14, issue 4, 2024,pp. 39-49,2024,ISSN: 2277-2685.(UGC).

15. **KompellaBhaskaraSrinivasaSarma** and **Nimmana Lakshmi Priyanka,** "IOT Based And Intelligent CAR Parking System," IJERSM, vol.14, issue 4, 2024,pp. 10-19,2024,ISSN: 2277-2685(UGC).

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY PATENT PUBLICATIONS

1. **Vallabhareddi Sandhya** "Diabetic Retinophy Detection Using color Image Processing," Application No.: 202441065271 A, Date of Filing: 29-08-2024, Date of Publication: 06-09-2024.
2. **Chikkam Surya Rama Gouri**; **S. N. V. D. Lakshmi Priyanka; Sabbathi Leelaveni Veni** "Simplied Channel Estimation Overfase Fading Sede Orosi Systems," Application No.: 202441066803 A, Date of Filing: 04-09-2024, Date of Publication: 13-09-2024.
3. **Gidla Sudheer Babu; Kondamuri Lakshmi Priyanka; Gosangi Sukanya** "Realization of Residue Architecture for Cryptography Applications," Application No.: 202441060589 A, Date of Filing: 10-08-2024, Date of Publication: 23-08-2024.
4. **Pangam Harika** "VLSI Iplementation Of Image Water Marking Using Tiwt with Hybrid Accumulation," Application No.: 202441061134 A, Date of Filing: 13-08-2024, Date of Publication: 23-08-2024.
5. **Kompella Bhaskara Srinivasa Sarma** "Self-Learning Vlsi circuit system for aaadaptive controlling In IOT Sensor," Application No.: 202441090695 A, Date of Filing: 21-11-2024, Date of Publication: 29-11-2024.
6. **Namburi Satya Nagendra Lakshmi pathiraju** "DE-Noising Medical Images In Transform Domain," Application No.: 202441061769 A, Date of Filing: 14-08-2024, Date of Publication: 23-08-2024.
7. **Kanakala Sivaranjini** "Advanced Secure ATM system with figerprint ,keypad and voice enable three-layer security protection F," Application No.: 202441080865 A, Date of Filing: 24-10-2024, Date of Publication: 01-11-2024.
8. **S. N. V. D. Lakshmi Priyanka** "IOT Based industrial Safety System," Application No.: 202441061770 A, Date of Filing: 14-08-2024, Date of Publication: 23-08-2024.
9. **Yegireddi Satya Vinod** "Accident Prevention At Blind Curves," Application No.: 202441069350 A, Date of Filing: 13-09-2024, Date of Publication: 20-09-2024.
10. **K. Rajasekhar** "Enhanced Real-Time Fraud Detection In Financial Transactions Using Deep learning," Application No.: 202441065146 A, Date of Filing: 29-08-2024, Date of Publication: 06-09-2024.
11. **K. Rajasekhar** "IOT-Based Intelligent Energy Management for hybrid electric vehicles using machine learning algoriyhms," Application No.: 202441058815 A, Date of Filing: 02-08-2024, Date of Publication: 09-08-2024.
12. **K. Rajasekhar** "AI Based Device For Crop Health Monitoring," Application No.: 424996-001, Date of Filing: 29-07-2024, Date of Publication: 19-09-2024.
13. **K. Rajasekhar** "IOT -Enabled Solar -Powerd Agriculture Robot," Application No.: 428209-001, Date of Filing: 26-08-2024, Date of Publication: 02-12-2024.
14. **K. Rajasekhar** "Artificail Intelligence Based CCTV Camera for surveillance," Application No.: 429229-001, Date of Filing: 04-09-2024, Date of Publication: 12-12-2024.
15. **K. Rajasekhar** "Design High Performance Broadband Microstrip Patch Antenna For 5G Communication," Application No.: 202441060422 A, Date of Filing: 09-08-2024, Date of Publication: 16-08-2024.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Participation / Achievements

Name of the Faculty	Name of Course Passed	Course Offered By (Agency)	Grade obtained if any	Duration
Dr. Thoram Saran Kumar	Switchng Circuits and Logic Design	NPTEL-IIT-Kharagpur	Elite	Jan-Apr 2024
Dr. Kusuma Raja Sekhar	Microprocessors And Interfacing	NPTEL-IIT-Guwahati	Elite	Jan-Apr 2024
Ch Sridevi	Digital System Design	NPTEL-IIT-Madras	Successfully completed	Jan-Apr 2024
Vallabhareddi Sandhya	Digital System Design	NPTEL-IIT-Madras	Elite	Jan-Apr 2024
Yegireddi Satya Vinod	Computer Networks And Internet Protocol	NPTEL-IIT-Kharagpur	Elite	Jan-Apr 2024
Inukonda Rama Satya Nageswara Rao	Switchng Circuits and Logic Design	NPTEL-IIT-Kharagpur	Successfully completed	Jan-Apr 2024
Gidla Sudheer Babu	Programming In Java	NPTEL-IIT-Kharagpur	Elite	Jan-Apr 2024
Gosangi Sukanya	Principles of Communication System-I	NPTEL-IIT-Kanpur	Elite	Jan-Apr 2024
Kankipati Swathi	Microprocessors And Interfacing	NPTEL-IIT-Guwahati	Successfully completed	Jan-Apr 2024

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES:

PEO1:
Graduates will apply strong fundamentals of electronics and communication engineering to analyze, design, and develop innovative electronic and communication systems using modern engineering tools for industrial and societal applications.

PEO2:
Graduates will pursue successful careers in industry, research organizations, and entrepreneurship or engage in higher education, demonstrating innovation, technical competence, and adaptability in emerging areas such as VLSI, IoT, and intelligent communication systems.

PEO3:
Graduates will demonstrate professional ethics, leadership, teamwork, and lifelong learning while developing sustainable engineering solutions to address global technological and societal challenges.

PROGRAM OUTCOMES (POS):

PO1: Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization respectively to develop to the solution of complex engineeringproblems.

PO2: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problemsreaching substantiated conclusions with consideration for sustainable development.

PO3: Design/Development of Solutions: Design creative solutions for complex engineering problems anddesign/develop systems/components/processes to meet identified needs with consideration for the public healthand safety, whole-life cost, net zero carbon, culture, society and environment as required.

PO4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problemsusing research-based knowledge including design of experiments, modelling, analysis & interpretation of data toprovide valid conclusions.

PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modernengineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineeringproblems.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the consequent responsibilities relevant to theprofessional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineeringsolutions in societal and environmental contexts, and demonstrate the knowledge of, and need forsustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion;adhere to national & international laws.

PO9: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leaderin diverse/multi-disciplinary teams.

PO10: Communication: Communicate effectively and inclusively within the engineering community and society atlarge, such as being able to comprehend and write effective reports and design documentation, make effectivepresentations considering cultural, language, and learning differences

PO11: Project Management and Finance: Apply knowledge and understanding of engineering managementprinciples and economic decision-making and apply these to one's own work, as a member and leader in a team,and to manage projects and in multidisciplinary environments.

PO12: Life-Long Learning: Life-long learning: Recognize the need for, and have the preparation andability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES:

PSO 1: Graduates will be able to analyze, design, and implement complex electronic systems and communication networks using modern hardware-software tools in the areas of VLSI, Embedded Systems, IoT, and AI-driven signal processing.

PSO 2: Graduates will be able to apply ECE principles to develop innovative, cost-effective, and sustainable solutions for real-world industrial and societal problems, while adhering to professional ethics and environmental standards.

Editorial Board

Faculty editors:

Mr. Inukonda Rama SatyaNageswaraRao

(Assistant Professor)

Mrs. K. L Priyanka Naidu

(Assistant Professor)

Student editors:

Dodda Naga Siva Sai

(22221A0446)

Mukkalla Naveen

(22221A04B3)

Ch. Manikantha

(23221A0436)