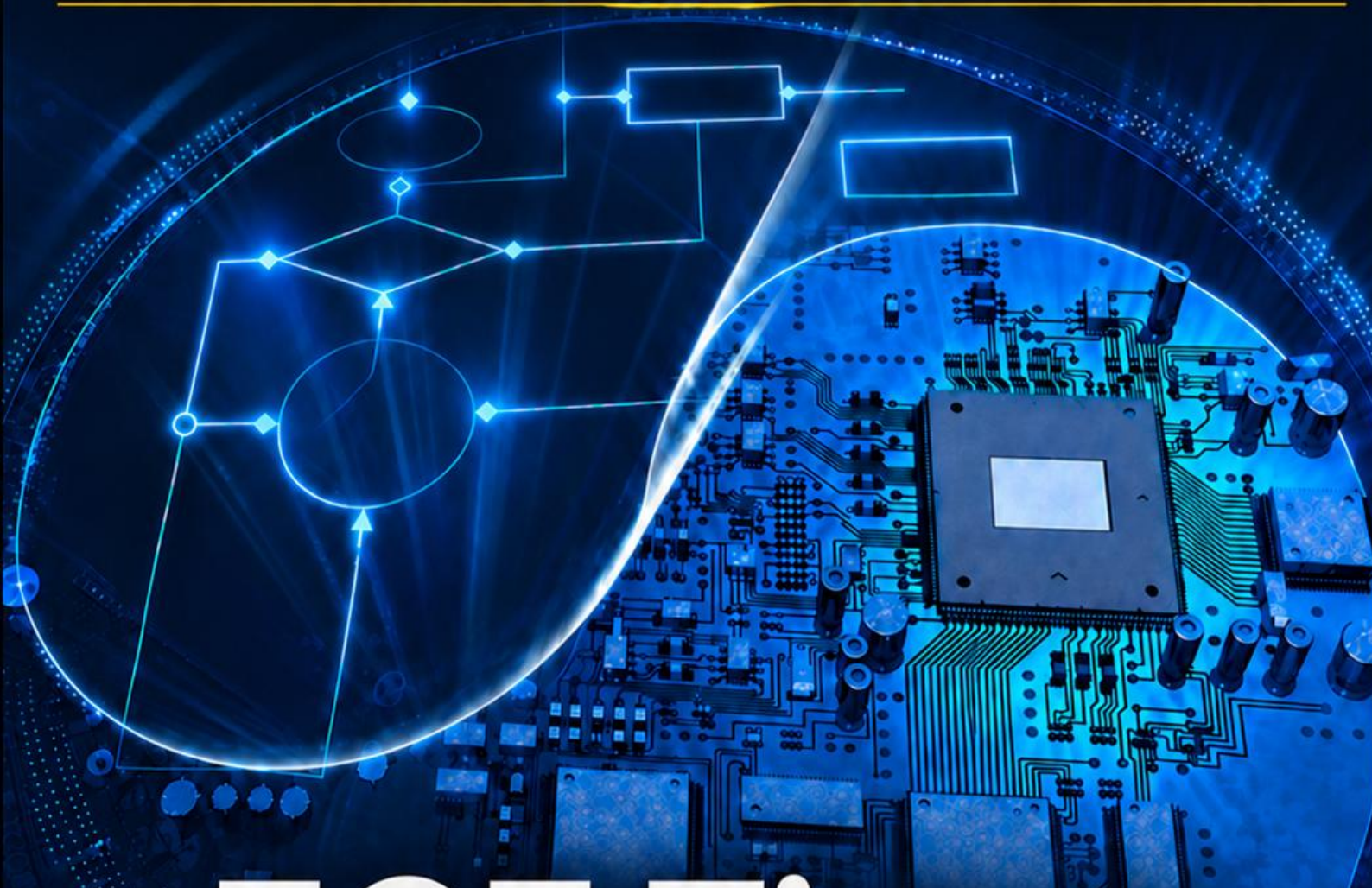
Bonam Venkata Chalamayya Engineering College(Autonomous), Odalarevu-533210

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Department of Electronics and Communication Engineering

Jan-June 2023 | Volume No. 16 | Issue 2



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: To instill 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 **Second Issue of the Half yearly ECETimes 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. Akula Pravin
Head of the Department & Professor
Bonam Venkata Chalamayya Engineering College, Odalarevu

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Semester Toppers

TOPPERS LIST IV B. TECH II SEMESTER



1st Rank(10.00)
19221A0407
Akula Rajeswari



2nd Rank(9.83)
19221A0423
B Lakshmi Samanvitha Kumari



3rd Rank(9.50)
19221A0419
Bodapati Vennela Rajasri



3rd Rank(9.50)
19221A0434
Chekuri Venkata Hari



3rd Rank(9.50)
20225A0414
Nagulapalli Divya Sridevi

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Semester Toppers

TOPPERS LIST III B. TECH II SEMESTER



1st Rank (9.09)
20221A0407
Ambati Yogendra Sai Sandeep



2nd Rank (9.02)
20221A0404
Alladi Bhandavya Gayatri Devi



3rd Rank (8.88)
20221A0471
Kalisetti Hema Sai Sireesha

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Semester Toppers

TOPPERS LIST II B. TECH II SEMESTER



1st Rank(9.09)
21221A0419
Bavireddi Sankararao



1st Rank(9.09)
21221A0471
Jana Pavitra Sai Naga Jyothi



2nd Rank(9.02)
21221A0442
Chollangi Sneha Siva Durga Padmini



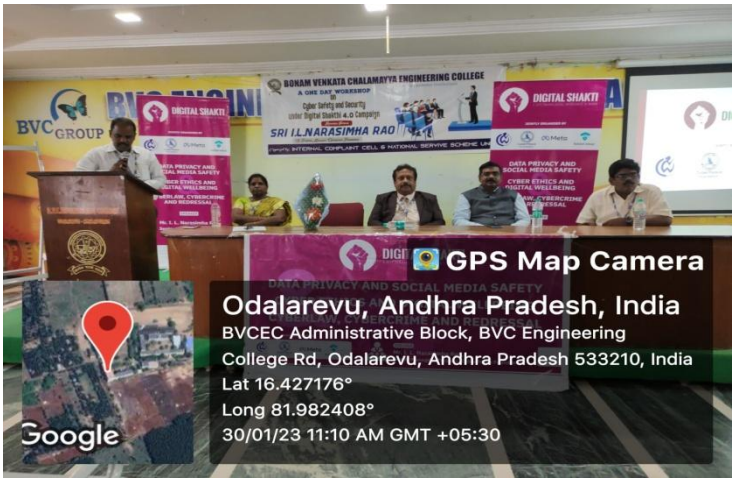
2nd Rank(9.02)
21221A04F6
Sabbavarapu Jyothi Venkata Sravani



3rd Rank(8.93)
21221A04E5
Raavi Gopichand

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EVENTS ORGANIZED





One day workshop on "Cyber Safety and Cyber Security under Digital Shakthi 4.0 Campaign", organised by Internal complaint Cell in collabration with cyberpeace Foundation, National commisiion for women , Meta and Autobot infosec ,30thJanuary, 2023. Chief Guest for this workshop is Sri. I L Narasimha Rao, Senior Project Manager at Cyber Peace foundation, a Civil society organization





International Women's Day Celebrations organized by the Internal Complaints Committee (ICC) of BVCE on 8th March 2023 in the presence of the Chief Guest Miss A. Hima Bindu, Additional Judicial First Class Magistrate, Amalapuram, Guest of Honour, Sri V. Naresh, District Judge, Amalapuram, and college dignitaries.





One week workshop on Xilinx and Embedded design organised by Tesla Embedded & IoT Club during 13/3/2023 to 18/3/2023. The resource person is Mr.Kondalarao Polisetti, Staff Design Engineer ,Xilinx, Hyderabad, VLSI Guru Institute- Banglore

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Students Participation / Achievements

S.No	Name of the Student	Event / Program	Date	Position / Status
1	Kasarla Siva Koti Reddy	3Day BOOTCAMP & 24 Hours HACKTHON on DATA SCIENCE USING PYTHON	17/04/2023 to 21/04/2023	Participated
2	Guduri Teja	3Day BOOTCAMP & 24 Hours HACKTHON on DATA SCIENCE USING PYTHON	17/04/2023 to 21/04/2023	Participated
3	Appari Srinivas	3Day BOOTCAMP & 24 Hours HACKTHON on DATA SCIENCE USING PYTHON	17/04/2023 to 21/04/2023	Participated
4	Ambati Yogendra Sai Sandeep	2-Day Workshop on Gesture Controlled Robot	18/03/2023 to 19/03/2023	Participated
5	Anga Bhavani Prasad	2-Day Workshop on Gesture Controlled Robot	18/03/2023 to 19/03/2023	Participated
6	Manne Suneesha	ESPARX-2k23	18/03/2023 to 19/03/2023	Second
7	Palli Siri Pallavi	ESPARX-2k23	18/03/2023 to 19/03/2023	Second
8	Mulagapati Nikhil	ESPARX-2k23	18/03/2023 to 19/03/2023	Second
9	Kola Veera Siva Sai Kumar	ESPARX-2k23	18/03/2023 to 19/03/2023	Second
10	Allu Deepika Subhasri	IOT2HACK-2k23	10/02/2023 to 11/02/2023	Second
11	Bandaru Sri Lakshmi Madhuri	IOT2HACK-2k23	10/02/2023 to 11/02/2023	Second
12	Bommidi devi	IOT2HACK-2k23	10/02/2023 to 11/02/2023	Second
13	Gidugu Yuva Kishore	IOT2HACK-2k23	10/02/2023 to 11/02/2023	Second
14	Namana Chakri	HackOverflow 2K23	06/01/2023 to 07/01/2023	Third
15	Rudra Ganga Kumar	HackOverflow 2K23	06/01/2023 to 07/01/2023	Third
16	Thota sravani	HackOverflow 2K23	06/01/2023 to 07/01/2023	Third
17	Vinukonda Sai Ram	HackOverflow 2K23	06/01/2023 to 07/01/2023	Third

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY FDPS/WORKSHOPS/SEMINARS/TRAINING PROGRAMS ATTENDED

Name of the Faculty	FDP /Workshop/Seminars/Training Program/Conference	Organized by	Duration
Ch Sridevi	Recent Trends in Semiconductor Devices/VLSI Chip Devices and its Sensor Applications	KL College of Engineering, Bhimavaram.	23rd -27th January 2023
Dr. Kusuma Raja Sekhar	Recent Trends in Semiconductor Devices/VLSI Chip Devices and its Sensor Applications	KL College of Engineering, Bhimavaram.	23rd -27th January 2023
Ch Sridevi	NPTEL on Analog circuits	Indian Institute of Technology Bombay	Jan-March 2023
Siva Sankara Phani. Tammireddy	Recent Trends in Semiconductor Devices/VLSI Chip Devices and its Sensor Applications	KL College of Engineering, Bhimavaram.	23rd -27th January 2023
Sandhya vallabhareddi	Recent Trends in Semiconductor Devices/VLSI Chip Devices and its Sensor Applications	KL College of Engineering, Bhimavaram.	23rd -27th January 2023
Harika pangam	Recent Trends in Modern Smart Intelligent Systems	Dr. M.G.R. Educational and Research Institute, TL.	8th-13th May 2023
Dr. Akula Pravin	Recent Trends in Modern Smart Intelligent Systems	Dr. M.G.R. Educational and Research Institute, TL.	8th-13thMay 2023
Dr. Valluri Dhanaraj	Recent Trends in Modern Smart Intelligent Systems	Dr. M.G.R. Educational and Research Institute, TL.	8th-13thMay 2023
Mr. V.Anuragh	Recent Trends in Modern Smart Intelligent Systems	Dr. M.G.R. Educational and Research Institute, TL.	8th-13thMay 2023
Harika pangam	Evolution of Semiconductor Technology	IEEE EDS Delhi Chapter, New Delhi.	May 8th 2023
Harika pangam	The Rise of Compound Semiconductors	IEEE EDS Delhi Chapter, New Delhi	June 19th 2023
Inukoda Rama Satya Nageswara Rao	Recent Trends in Semiconductor Devices/VLSI Chip Devices and its Sensor Applications	KL College of Engineering, Bhimavaram.	23rd -27th January 2023
Ms. . S N D V L Priyanka	Recent Trends in Modern Smart Intelligent Systems	Dr. M.G.R. Educational and Research Institute, TL.	8th-13th May 2023
Ms. S N D V L Priyanka	Building advanced data analytics applications with cloud	Next gen employment program	8th -12th Jan 2023
Ms. Tikkireddy Sri Satya Mounika	Building advanced data analytics applications with cloud	Next gen employment program	8th -12th Jan 2023
Ms. Seelam Naga Bharghavi	Building advanced data analytics applications with cloud	Next gen employment program	8th -12th Jan 2023
Mr. Gidla Sudheer Babu	Building advanced data analytics applications with cloud	Next gen employment program	8th -12th Jan 2023
Mr. Gidla Sudheer Babu	Recent Trends in Semiconductor Devices/VLSI Chip Devices and its Sensor Applications	KL College of Engineering, Bhimavaram.	23rd -27th January 2023
Ms. Kanakala Sivaranjini	Building advanced data analytics applications with cloud	Next gen employment program	8th -12th Jan 2023
Mrs. Balla Naga Lakshmi	Building Advanced Data Analytics Applications With Cloud	Next gen employment program	8th -12th Jan 2023
Nakka Swamy Dattareyachari	Recent Trends in Semiconductor Devices/VLSI Chip Devices and its Sensor Applications	KL College of Engineering, Bhimavaram.	23rd -27th January 2023
Bonthu Chandra Praveen	Recent Trends in Semiconductor Devices/VLSI Chip Devices and its Sensor Applications	KL College of Engineering, Bhimavaram.	23rd -27th January 2023
Gubbala Asha	Recent Trends in Semiconductor Devices/VLSI Chip Devices and its Sensor Applications	KL College of Engineering, Bhimavaram.	23rd -27th January 2023
G. Lakshmi Venkata Durga	Recent Trends in Modern Smart Intelligent Systems	Dr. M.G.R. Educational and Research Institute, TL.	8th-13th May 2023

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY JOURNAL/CONFERENCE PUBLICATIONS

1. T. V. Janardhana Rao, "Hill Climbing MPPT Performance Analysis for Photovoltaic System Under Partial Shading," ARPN Journal of Engineering and Applied Sciences, 2023, ISSN: 1819-6608.

2.Ch. Sridevi, B. V. Ramana, K. Lakshmi Priyanka, S. Vallabhareddi, N. Suguna, and C. M. Krishna, "Design and Analysis of Quad-Element MIMO Antenna Applied to the Wideband Transmission," in 2023 IEEE World Conference on Applied Intelligence and Computing (AIC), Sonbhadra, India, Jul. 2023, pp. 460–466, doi: 10.1109/AIC57670.2023.10263852

3. Vijjapu, A., Y. S. Vinod, S. V. S. N. Murty, B. E. Raju, B. V. V. Satyanarayana, and G. P. Kumar, "Steganalysis Using Convolutional Neural Networks—Yedroudj Net," in 2023 International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, India, 2023, pp. 1–7, doi: 10.1109/ICCCI56745.2023.10128190

4. B. E. Raju, M. R. Sankar, T. S. Kumar, K. R. Chandra, V. B. Durga, and G. P. Kumar, "Modified Encryption Standard for Reversible Data Hiding Using AES and LSB Steganography," in 2023 International Conference on Computer Communication and Informatics (ICCC+I), Coimbatore, India, Jan. 2023, pp. 1–5, doi: 10.1109/ICCCI56745.2023.10128377

FACULTY PATENT PUBLICATIONS

S.No.	Name of the Faculty	Title of the Patent	Application Date	Application Number
1	T. Saran Kumar; I. Rama Satya Nageswara Rao	Cost Aware Optimization Based Scheduling Technique for IoT Tasks	03-02-2023	202341005247 A
2	Dr. Akula Pravin; Dr. K. Rajasekhar	An Advanced Tumour Recognition Based on IoT and Artificial Intelligence Image Processing and Working Method Thereof	24-02-2023	202341005613 A
3	T. Saran Kumar; I. Rama Satya Nageswara Rao	Machine Learning Approach-Based Monitoring of Insect Pests in Plants Using a Camera-Equipped Device	10-02-2023	202311006403 A
4	T. Saran Kumar; I. Rama Satya Nageswara Rao	Detection of Autism Spectrum in EEG Signal Using Artificial Intelligence	17-03-2023	202341011889 A
5	T. Saran Kumar; I. Rama Satya Nageswara Rao	Recognition of Ocular Disease from Fundus Images Using a Machine Learning Approach	05-05-2023	202341027529 A
6	T. Saran Kumar; I. Rama Satya Nageswara Rao	An Improvised Design and Development of Solar Charging Station for EV	13-01-2023	202311001494 A
7	Ch. Sridevi	Adaptive and Fault-Tolerant Data Processing in Healthcare Internet of Things	13-01-2023	202241076238 A
8	P. Harika; T. Saran Kumar; Y. Satya Vinod	A System for Recognizing and Storing a Business Card by Using a Business Card Management Server and Method Thereof	17-02-2023	202341004175 A

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S.No.	Name of the Faculty	Title of the Patent	Application Date	Application Number
9	V. Sandhya; K. L. Priyanka	A Novel Biometrical Image Processing Method for Detecting and Classifying Anatomical Structures	12-05-2023	202321026288 A
10	Dr. Akula Pravin	A Novel Content-Based Image Retrieval System with Edge-Based Structural Features	21-01-2023	202341004326 A
11	T. Saran Kumar	Analysis and Detection of Depression Severity Score Based on EEG Signal Using Machine Learning Approach	13-01-2023	202341001221 A
12	T. Saran Kumar	An Improvised Design and Development of Solar Charging Station for EV	13-01-2023	202311001494 A
13	Y. Satya Vinod	IoT-Based Monitoring System for Physical Rehabilitation of Stroke Patients	17-03-2023	202341011074 A
14	Y. Satya Vinod	IoT-Based Remote Smart Healthcare System for Telemedicine	10-02-2023	202321005244

Students Publications

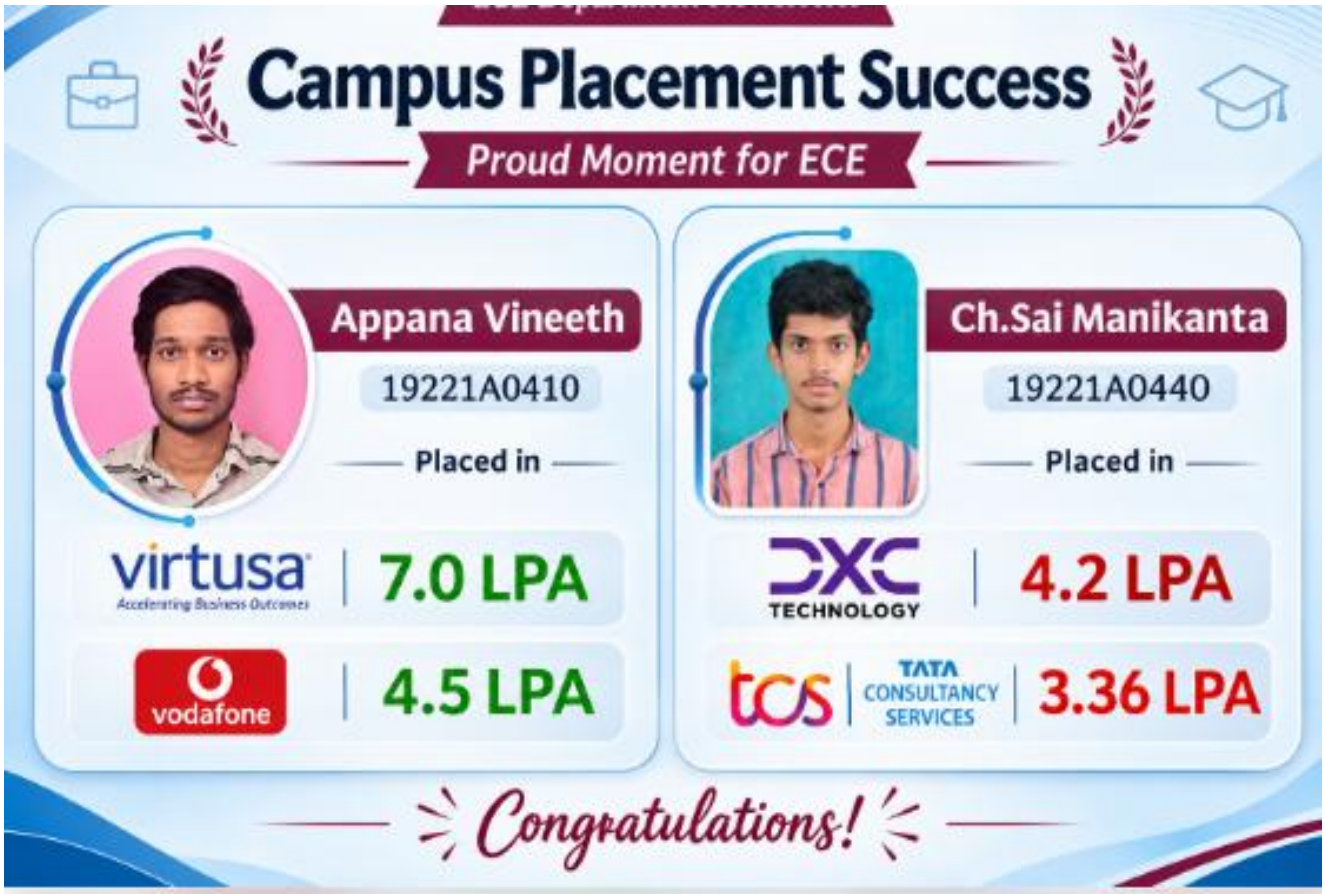
S.No.	Authors	Paper Title	Publication Details
1	P. Naga Vinay; P. Pavan; K. Deepak; P. Shankar; N. S. Lakshmi Pathi Raju; Nakka Swami Dattatreyachari	IoT Based Automated Horticulture for Farmers	International Journal of Creative Research Thoughts (IJCRT), Volume 11, Issue 4, 2023. ISSN: 2320-2882
2	U. Bindu Sri Asrita; U. Bhuvana; V. M. Durga Rao; N. V. V. Krishna; T. Saran Kumar; V. Anuragh	Modified Modern Encryption Standard for Resource-Constrained Environments	International Journal of Creative Research Thoughts (IJCRT), Volume 11, Issue 4, 2023. ISSN: 2320-2882
3	K. Chandana; K. Lohitha; V. S. L. Devi; P. S. Satish; K. Mohan Sai; G. Sukanya	Smart Helmet for Leading Industries to Manage Their Workforce	International Journal of Creative Research Thoughts (IJCRT), Volume 11, Issue 4, 2023. ISSN: 2320-2882
4	T. Hasritha Lakshmi Chandra Durga; G. Srujani; Ch. Yeliazer; G. Phaneendra Lohith; J. Devi Naga Manikanta; Dr. T. V. Janardhana Rao	Design of Full Adders Using Double Gate MOSFET	International Journal of Scientific Development and Research (IJSDR), Volume 8, Issue 3, 2023. ISSN: 2455-2631
5	Ch. Venkata Hari; B. V. S. Sai Krishna; D. S. S. V. Naidu; G. Tarun Vikas; V. Sandhya; S. N. V. D. Priyanka	Arduino Based Lineman Protection System Using User-Changeable Password Authentication	International Journal of Scientific Development and Research (IJSDR), Volume 8, Issue 3, 2023. ISSN: 2455-2631
6	J. Kiran Babu; Satya Durga Swathi; Ch. D. V. B. Gayatri; G. Sri Charan Teja; T. Saran Kumar; K. Lakshmi Priyanka	Seabin Floating Waste Collector Using Arduino	International Journal of Research and Analytical Reviews (IJRAR), Volume 10, Issue 2, 2023. E-ISSN: 2348-1269; P-ISSN: 2349-5138
7	Kamisetti Mahesh; Matta Dhanusha; Kalluri Rajesh; K. T. V. N. Sathish Kumar; G. Sudheer Babu; Y. Sai Sandeep	IoT-Based School Bus Monitoring System Using GSM and GPS Module	International Journal of Research and Analytical Reviews (IJRAR), Volume 10, Issue 2, 2023. E-ISSN: 2348-1269; P-ISSN: 2349-5138

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S.No.	Authors	Paper Title	Publication Details
8	B. Sruthi; B. Akash; G. M. Brahmaji; G. V. S. Balaram; Yegireddi Satya Vinod; M. Mounika Varalakshmi	Biometric Facial Recognition System for Missing Children Identification Using Deep Learning	International Journal of Research and Analytical Reviews (IJRAR), Volume 10, Issue 2, 2023. E-ISSN: 2348-1269; P-ISSN: 2349-5138
9	R.Sunitha,S.Sari Kalyani,S.G.V.S.Naveeni,V.Yedukondalu, K Rajasekhar , N. Phani Kumar	An Adaptive Image Enhancement Scheme For Low- Light Image	International Journal of Research and Analytical Reviews (IJRAR), Volume 10, Issue 2, 2023. E-ISSN: 2348-1269; P-ISSN: 2349-5138
10	M.J.V. Deepika,P.U.N.Harshith,P.Teja,1 M. Nithin ,Dr. Akula Pravin , Mr.B.Chandra Praveen	Preventions Of Railway Accidents At High-Risk Forests Using Arduino	International Journal of Creative Research Thoughts (IJCRT), Volume 11, Issue 4, 2023. ISSN: 2320-2882

Students Placements

The Department of Electronics and Communication Engineering is committed to enhancing students' employability by providing technical training, placement preparation, and industry-oriented learning opportunities. During the academic year 2022–23, students secured placement opportunities in various reputed companies across IT, core engineering, software development, and other sectors. A total of **135 placement records** were reported across **29 companies**, reflecting the department's continued efforts to support students in achieving their career goals.



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 engineering problems.

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

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

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

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

PO6: 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.

PO7: 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.

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 leader in diverse/multi-disciplinary teams.

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

PO11: Project Management and Finance: Apply knowledge and understanding of engineering management principles 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 and ability 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

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Assistant Professor

Mr. Gidla Sudheer Babu
Assistant Professor

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(21221A0472)