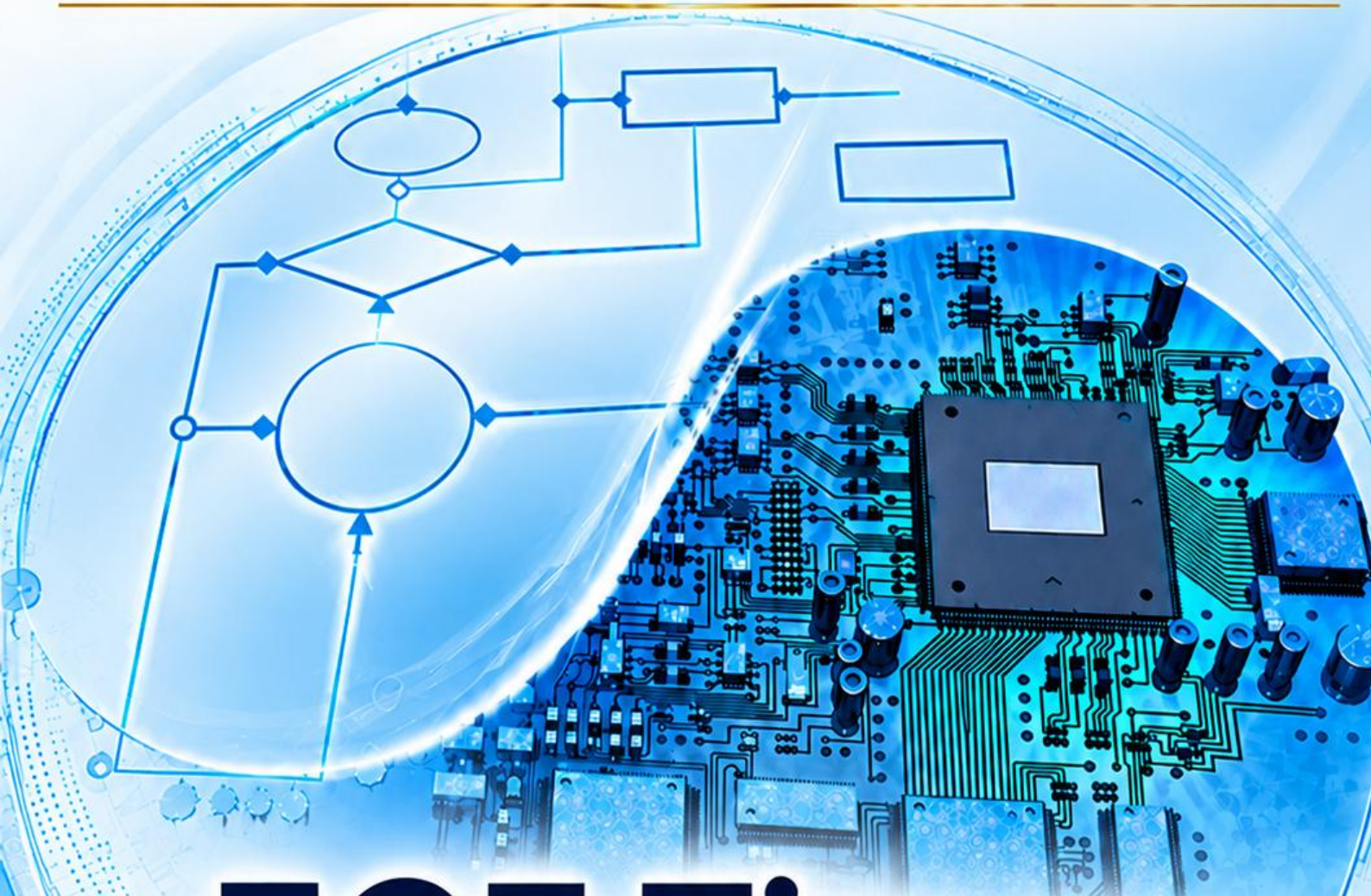
Bonam Venkata Chalamayya Engineering College(Autonomous), Odalarevu-533210

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Department of Electronics and Communication Engineering

Jan-June 2024 | Volume No. 17 | Issue 2



ECE Times Newsletter

Insights. Innovations. Impact.

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.

HOD's Desk



Dear Students, Faculty Members and Alumni,

It gives me immense pleasure to present the Second Issue of "ECE Times" for January-June 2024 (Volume 17, Issue 2). This newsletter highlights the achievements, academic activities, and accomplishments of the Department of Electronics and Communication Engineering.

Our department continuously strives for academic excellence, innovation, research, and holistic student development. The active participation of our students and faculty in workshops, seminars, internships, projects, publications, and technical events reflects our commitment to quality education and professional growth.

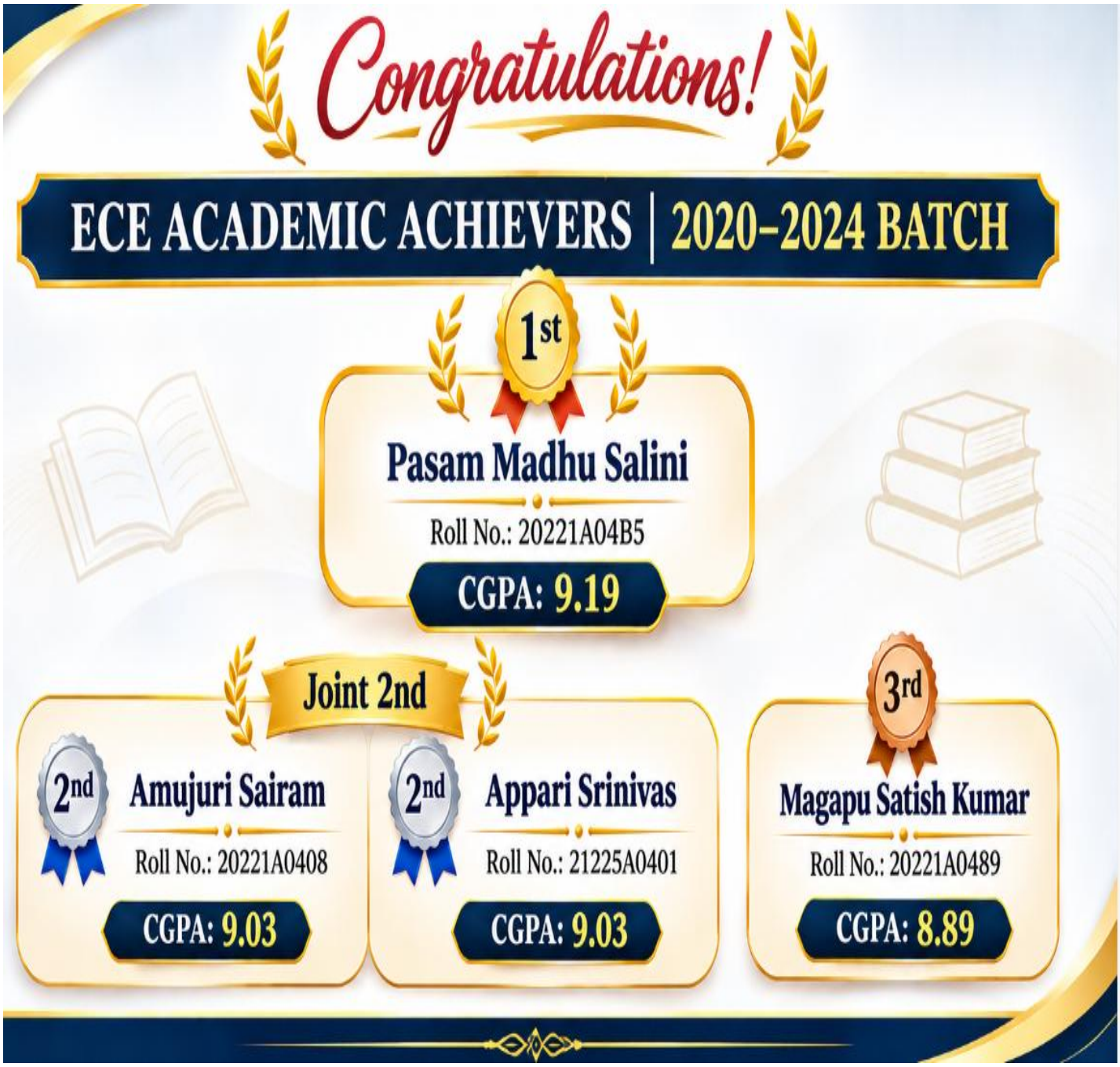
I sincerely appreciate the efforts of the faculty members, students, and editorial team in making this issue a success. I hope this newsletter inspires our students to explore new opportunities, embrace emerging technologies, and strive for excellence.

I wish the ECE Department continued success and many more achievements in the years ahead.

With Best Wishes,

Dr. Akula Pravin
Head of the Department & Professor
Bonam Venkata Chalamayya Engineering College, Odalarevu

Academic Toppers for A.Y 2023-24



Semester Toppers



TOPPERS LIST III B. TECH II SEMESTER

S.No	Roll Number	Name of the Student	SGPA	Rank
1	21221A0442	Chollangi Sneha Siva Durga Padmini	9.3	1
2	22225A0408	Dodda Bala Satya Akanksha	9.3	1
3	21221A0419	Bavireddi Sankararao	9.16	2
4	21221A0441	Chollangi Chandrika Lakshmi Madhu	9.16	2
5	21221A0470	Jana Pavitra Sai Naga Jyothi	9.16	2
6	21221A0486	Komara Uday Kiran	9.16	2
7	21221A04D4	Peruri Sai Devi Sri	9.07	3

TOPPERS LIST II B. TECH II SEMESTER

S.No	Roll Number	Name of Student	SGPA	Rank
1	22221A0411	Akula Uma Krishna Veni	9.51	1
2	22221A0456	Ganta Kusuma	9.3	2
3	22221A0452	Dulipudi Pavani Veera Satya	9.09	3
4	22221A0481	Katta Gowri Priya	9.09	3
5	23225A0413	Mereti Yamini Devi	9.09	3

EVENTS ORGANIZED

ONE WEEK TECHNOLOGY TRAINING ON EMBEDDED SYSTEMS





The TeslaEmbedded & Iot Club of ECE department organized a one-week technology training programme on Embedded Systems from 26-03-2024 to 31-03-2024 for B.Tech IV Year ECE students. The programme was conducted by Mr. Sivasakthi Nath, High-Q Labs, with Mr. Y. Satya Vinod, Assistant Professor, as the coordinator, under the aegis of the Tesla Embedded & IoT Club.The training covered embedded system architecture, microcontrollers, sensors, actuators, interfacing techniques, Embedded C programming, hardware–software integration, and real-time system development. A total of 185 students participated in the programme and gained valuable practical knowledge and technical skills.

ONE DAY WEBINAR ON HOW TO GET A PLACEMENT IN MULTINATIONAL COMPANY



The TechSphere Club of ECE organized a one-day webinar on “How to Get a Placement in a Multinational Company” on 13-03-2024 for B.Tech IV Year students. The session was delivered by Dr. G. Nagaraju, Professor, ECE Department, SRKR Engineering College, Bhimavaram, and coordinated by Dr. K. Raja Sekhar, Professor,

EVENTS ORGANIZED

ONE DAY SEMINAR ON HIGHER EDUCATION FIELDS IN ECE



The TechSphere Club of ECE Dept.organized a one-day seminar on "Higher Education Opportunities in ECE" on 17-05-2024 for B.Tech III Year ECE students. The session was delivered by Dr. B. Venkata Raman, Professor and Director, R&D, and coordinated by Mrs. CH. Sridevi .The seminar provided insights into higher education opportunities in India and abroad, postgraduate programmes, research prospects, and emerging specializations such as VLSI Design, Embedded Systems, Communication Systems, Artificial Intelligence, IoT, Robotics, and Signal Processing

ONE WEEK SKILL ORIENTED COURSE ON ARDUINO PROGRAMMING





The Albert Einstein ECE Club organized a one-week skill-oriented training programme on Arduino Programming on 09-02-2024 for B.Tech II Year ECE students. The programme was conducted by Mr. K. Venkata Ramana, Assistant Professor, Aditya Engineering College, Surampalem, and Mr. G. Sudheer Babu, Assistant Professor, BVC Engineering College, Odalarevu. Ms. K. Siva Ranjini, Assistant Professor, served as the coordinator.

FACULTY FDPS/WORKSHOPS/SEMINARS/TRAINING PROGRAMS ATTENDED

Name of the Faculty	FDP /Workshop/Seminars/Training Program/Conference	Organized by	Duration
Dr. Akula Pravin	Emerging trends and challenges in communication and computational Technologies 5G/6G	VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad	18/03/24 to 22/03/24
Dr. Tammireddy Venkata Janardhana Rao	Microsoft Azure AI Engineer Associate	ICT Academy, Microsoft	11/03/24 to 15/03/24
Dr. Namburi Satya Nagendra Lakshmipathi Raju	Microsoft Azure AI Engineer Associate	ICT Academy, Microsoft	11/03/24 to 15/03/24
Dr. Namburi Satya Nagendra Lakshmipathi Raju	Mathematics in engineering and science	VIT-AP University, AP	02/01/24 to 06/01/24
Dr. Thoram Saran Kumar	Emerging trends and challenges in communication and computational Technologies 5G/6G	VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad	18/03/24 to 22/03/24
Ms. Pangam Harika	Mathematics in engineering and science	VIT-AP University, AP	02/01/24 to 06/01/24
Mrs. Vallabhareddi Sandhya	Microsoft Azure AI Engineer Associate	ICT Academy, Microsoft	11/03/24 to 15/03/24
Mr. Yegireddi Satya Vinod	Computer networks and internet protocol	NPTEL, IIT Madras	Jan-Apr 2024
Mr. Yegireddi Satya Vinod	Microsoft Azure AI Engineer Associate	ICT Academy, Microsoft	11/03/24 to 15/03/24
Mr. Inukonda Rama Satya Nageswara Rao	Emerging trends and challenges in communication and computational Technologies 5G/6G	VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad	18/03/24 to 22/03/24
Mr. Inukonda Rama Satya Nageswara Rao	Switching circuits and logic design	NPTEL, IIT Madras	Jan-Apr 2024
Ms. Seelam Naga Bharghavi	Mathematics in engineering and science	VIT-AP University, AP	02/01/24 to 06/01/24
Ms. Gosangi Sukanya	Microsoft Azure AI Engineer Associate	ICT Academy, Microsoft	11/03/24 to 15/03/24

Faculty 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
Ms. Gosangi Sukanya	Principles of Communication System-I	NPTEL-IIT-Kanpur	Elite	Jan-Apr 2024
Mrs. Kankipati Swathi	Microprocessors And Interfacing	NPTEL-IIT-Guwahati	Successfully completed	Jan-Apr 2024

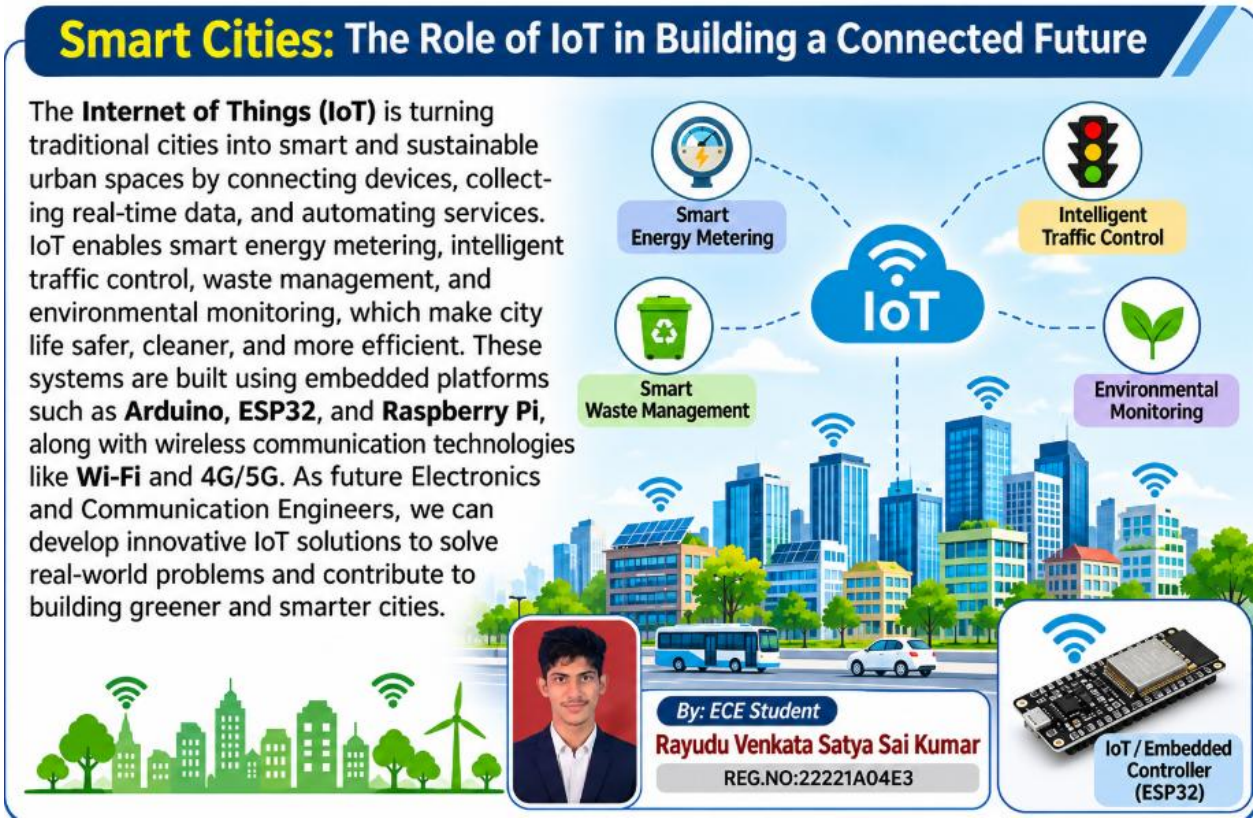
FACULTY PATENTS PUBLISHED

1. **Rama Satya Nageswara Rao and Thoram Saran Kumar** published a patent titled "IoT-Based Smart Metering for Home Automation" on 1 May 2024. (Application No. 202321084011 A), published on 1 May 2024.
2. **Rama Satya Nageswara Rao and Thoram Saran Kumar** published a design patent titled "Wind Mill" on 13 January 2024 with Patent Number 404439-001

Students Participation

S.No.	Name of the Student	Name of the Event	Date of Event	Name of the award if any
1	Achanta Venkata Ganesh	AGAMA 2024	16/03/2024	Third
2	Ill A Mounica	Srujana-LAKSHYA-2K2K24	01/03/2024	Participated
3	Yedida Gayatri	'Crux' Project Expo (IETE Student Forum)	01/03/2024	Participated
4	Palani Anil Swami	'Crux' Project Expo (IETE Student Forum)	01/03/2024	Participated

Student Article



Student Publications

S. No.	Paper Title	Name of the Author(s)	Name of the Journal	Publication Details (Volume No., Issue No., Year, ISSN Number)
1	A Novel Approach To Improve Efficiency Of Solar PV Using An Automated RTC Based Cleaning System	V. Lakshmi Priya; P. Anil Swamy; B. Phani Chaitanya; S. S. Venkata Reddy; Yegireddi Satya Vinod; V. Anuragh	International Journal of Creative Research Thoughts (IJCRT)	Volume No.: 12; Issue No.: 4; Year: 2024; ISSN No.: 2320-2882
2	An automatic driver drowsiness alerting system using GSM	A. D. Santhosh; D. N. S. Lalitha; Ch. Pavan; D. Sridhar; V. Sandhya; K. Swathi	International Journal of Creative Research Thoughts (IJCRT)	Volume No.: 12; Issue No.: 4; Year: 2024; ISSN No.: 2320-2882
3	Carbon emission monitoring system	N. Asha Devi; M. Kavya Sri; Y. Narendra; M. Satya Naga Kiran; S. Naga Bharghavi; G. Asha	International Journal of Creative Research Thoughts (IJCRT)	Volume No.: 12; Issue No.: 4; Year: 2024; ISSN No.: 2320-2882
4	Embedded system based restaurant automation	Thiranati Swamy Manikanata; Sairam; Chitala Sri Venkata Pavan; Deepika Subhasri; Akula Pravin; M. Nomitha Reddy	International Journal of Creative Research Thoughts (IJCRT)	Volume No.: 12; Issue No.: 4; Year: 2024; ISSN No.: 2320-2882
5	Design of low power and high speed GDI based 8-bit vedic multiplier	A. Sairam; D. Swamy Sriram; G. Vinay; B. Rishivinth; B. Bhavani Sriya; P. Harika; G. Lakshmi Venkata Durga	International Journal of Scientific Development and Research (IJSDR)	Volume No.: 9; Issue No.: 4; Year: 2024; ISSN No.: 2455-2631
6	Robust Alzheimer's Disease Classification Using Noisy Deep Dictionary Learning	A. B. Gayatri Devi; B. Vijayakumar; A. D. Subha Sri; Ch. M. B. Dorababu; Dr. Valluri Dhana Raj; Chikkam Surya Ramagouri	International Journal of Scientific Development and Research (IJSDR)	Volume No.: 9; Issue No.: 4; Year: 2024; ISSN No.: 2455-2631

S. No.	Paper Title	Name of the Author(s)	Name of the Journal	Publication Details (Volume No., Issue No., Year, ISSN Number)
7	Design And Implementation Of An Iot-Based Smart Greenhouse Using Atmega328 Microcontroller	Ch. Sri Hari Naga Sai Surya Teja; G. Naga Ganesh Surya Satya Sai; G. Ram Prasad; I. Venkat; Dr. T. Sivasankara Phani; Dr. B. S. D. Sarma Kompella	International Journal of Research and Analytical Reviews (IJRAR)	Volume No.: 11; Issue No.: 1; Year: 2024; ISSN No.: E-ISSN 2348-1269; P-ISSN 2349-5138
8	Iot-Based Low-Cost Smart Energy Meter Using Esp32 For Real-Time Monitoring And Load Management	G. Indrasena Reddy; B. Sai; G. Siva Manikanta; G. Durga Devi; D. Tulasi; J. Uma Maheswari	International Journal of Research and Analytical Reviews (IJRAR)	Volume No.: 11; Issue No.: 1; Year: 2024; ISSN No.: E-ISSN 2348-1269; P-ISSN 2349-5138
9	Design And Implementation Of An Iot-Based Smart Baby Cradle System	Golagani Hemalatha; Siripurapu Karthik; Pechetti Yuva Sai Pavan; Sape Sunil; Gubbala Lakshmi Durga; Gosangi Sukanya	International Journal of Research and Analytical Reviews (IJRAR)	Volume No.: 11; Issue No.: 1; Year: 2024; ISSN No.: E-ISSN 2348-1269; P-ISSN 2349-5138
10	Modified Full Swing Full Adder Based On Complementary Pass Transistor Logic (CPL) For Low Power Applications	T. Jyothi Rajasri; U. Prakash; Y. Subhash; V. Sairam; P. Arudra; Ch. Sridevi	International Journal of Research and Analytical Reviews (IJRAR)	Volume No.: 11; Issue No.: 1; Year: 2024; ISSN No.: E-ISSN 2348-1269; P-ISSN 2349-5138

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.

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