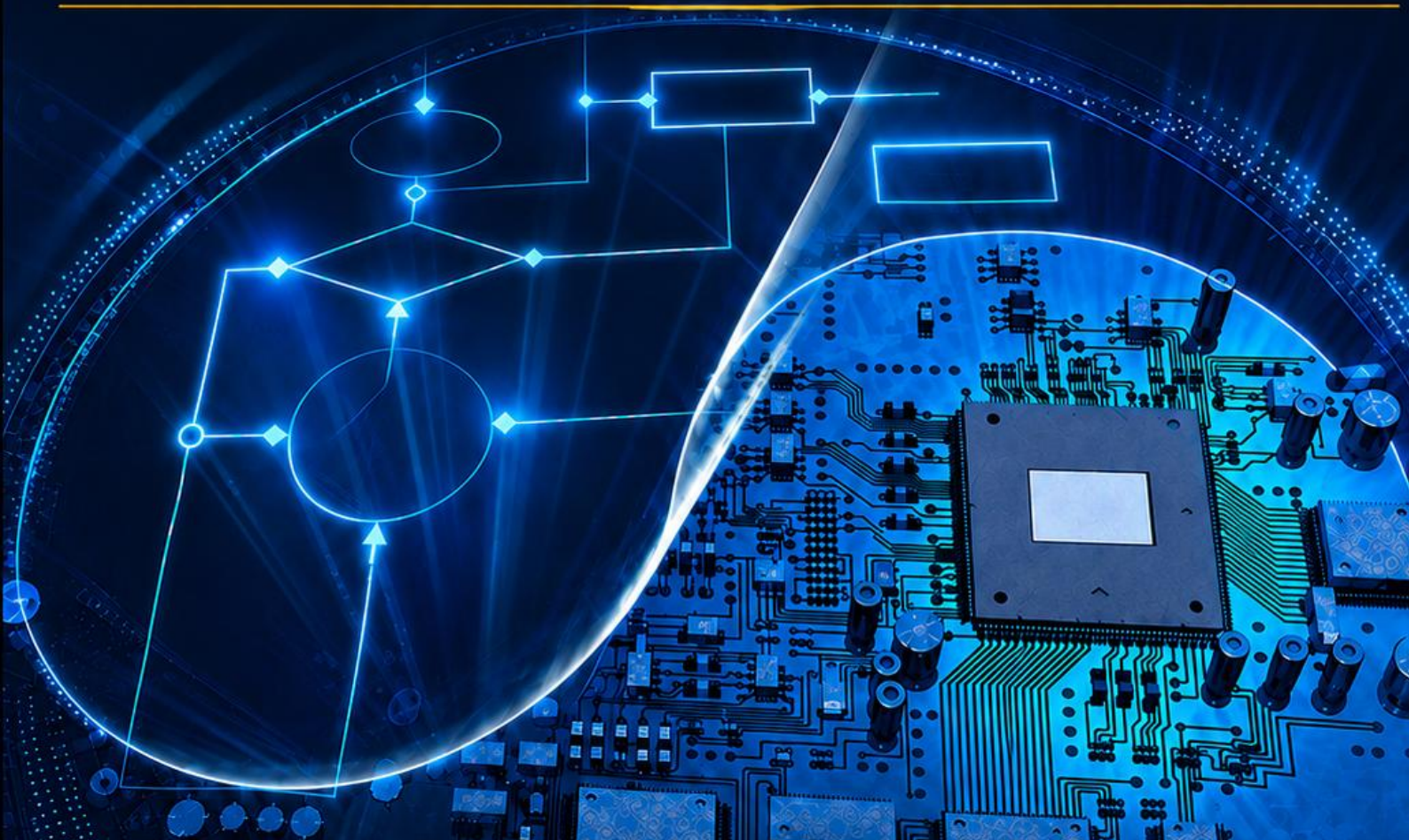
Bonam Venkata Chalamayya Engineering College(Autonomous), Odalarevu-533210

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Department of Electronics and Communication Engineering

July-Dec 2022 | Volume No. 16 | Issue 1



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 **ECE Department Newsletter**. The Department of Electronics and Communication Engineering has always been committed to fostering academic excellence, innovation, research, and holistic development among our students.

Through the collective efforts of our dedicated faculty and enthusiastic students, the department continues to create opportunities for learning beyond the classroom through technical events, workshops, seminars, projects, internships, publications, patents, and various co-curricular and extracurricular activities.

This newsletter is a reflection of the remarkable achievements, milestones, and activities of our department. I extend my special appreciation to the **editorial team of the newsletter** for capturing the essence of our departmental activities with such clarity and enthusiasm.

Let this publication serve not only as a record of our journey but also as an inspiration for future endeavours and greater accomplishments. I sincerely appreciate the contributions of our faculty members and students and congratulate them on their accomplishments.

I extend my best wishes to all our students for their continued success and encourage them to embrace emerging technologies, nurture creativity, and strive for excellence in their academic and professional journeys.

With best wishes,

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

Semester Toppers

TOPPERS LIST IV B. TECH I SEMESTER



1st Rank(9.61)
19221A0407
Akula Rajeswari



2nd Rank(9.35)
19221A0423
B Lakshmi Samanvitha Kumari



3rd Rank(9.06)
19221A0411
B. Vennela Rajasri



3rd Rank(9.06)
19221A0429
T Hasritha Lakshmi Chandra Durga

Semester Toppers

TOPPERS LIST III B. TECH I SEMESTER



1st Rank (9.00)
20221A0404
Alladi Bhandavya Gayatri Devi



2nd Rank (8.88)
20221A0489
Magapu Satish Kumar



2rd Rank (8.88)
21225A0401
Appari Srinivas



3rd Rank (9.00)
20221A04B5
Pasam Madhu Salini

Semester Toppers

TOPPERS LIST II B. TECH I SEMESTER



1st Rank(9.58)
21221A0442
Ch. Sneha Siva Durga Padmini



2nd Rank(9.30)
21221A0401
Achanta Venkata Ganesh



2nd Rank(9.30)
21221A0419
Bavireddi Sankararao



3rd Rank(9.16)
21221A0441
Ch. Chandrika Lakshmi Madhu

EVENTS ORGANIZED

ONE-WEEK WORKSHOP ON RECENT TRENDS IN IOT AND VLSI





The Tesla Embedded and IoT club of the department organized a one-week workshop on Recent Trends in IoT and VLSI from 12th to 17th September 2022 for B.Tech III Year students. The workshop featured resource persons from Infineon, Bangalore, and Naresh Technologies, Hyderabad, providing insights into emerging technologies, VLSI design, and IoT applications through expert sessions and hands-on training.

ONE-DAY SEMINAR ON ROCKET SCIENCE





The Albert Eisntein Club ECE Department organized a one-day seminar on *Rocket Science* on 26th October 2022 for B.Tech IV Year students, with 200 participants. The session was delivered by Mr. Y. Siva Prasad, Former Scientist, VSSC–ISRO**, providing insights into rocket dynamics, propulsion systems, payloads, and advancements in space technology**.

EVENTS ORGANIZED

GUEST LECTURE ON SIGNALS AND SYSTEMS





The Albert Eisntein Club ECE Department organized a guest lecture on *Signals and Systems* on 4th December 2022 for II Year ECE students, with 120 participants. The session was delivered by Dr. B. V. V. Satyanarayana, Associate Professor, VIT, Bhimavaram, to enhance students' understanding of fundamental concepts in signals and systems and their practical applications.

SEMINAR ON ENTREPRENEURSHIP ESSENTIALS





The Department of Electronics and Communication Engineering, through TechSphere Club, organized a seminar titled "Entrepreneurship Essentials" on 20th December 2022. The seminar was delivered by Sri Rogutu Pradeep, Director, Vmould Design Consultants, with the objective of creating entrepreneurial awareness among IV Year B.Tech students. The resource person highlighted the importance of innovation, identifying business opportunities, startup development, sustainable business models, funding sources, and government support schemes.

STUDENTS NSS ACTIVITIES

MASS CLEANING CAMPAIGN AT KOMARAGIRIPATANAM AND DUSTBIN DISTRIBUTION





NSS Unit of BVC Engineering College(A), Odalarevu, Conducted Mass cleaning campaign on 22nd July 2022, 46 male students and 21 girl students participated in distribution of dustin and giving awareness on how to maintain cleanliness nearby Komarigipatnam

HAR GHAR THIRANG CAMPAING RALLY





Har Ghar Tiranga campaign was organized in BVC Engineering College from August 10th to 15th , 2022. The campaign was organized by the college's NSS (National Service Scheme) unit in collaboration with the college administration. The campaign was aimed at spreading awareness about the importance of patriotism and national pride. As part of the campaign, students and staff members of the college were encouraged to hoist the Indian flag at their homes and to decorate their homes with patriotic symbols.

FACULTY FDPS/WORKSHOPS/SEMINARS/TRAINING PROGRAMS ATTENDED

Name of the Faculty	FDP /Workshop/Seminars/Training Program/Conference	Organized by	Duration
Dr. Akula Pravin	Applied robotic control	Festio India Pvt. Limited,Bengaluru	24/8/22 to 26/8/22
Dr. Valluri Dhanaraj	Applied robotic control	Festio India Pvt. Limited,Bengaluru	24/8/22 to 26/8/22
Dr. Thoram Saran Kumar	Applied robotic control	Festio India Pvt. Limited,Bengaluru	24/8/22 to 26/8/22
Dr.Tammireddy Venkata Janardhana Rao	Recent advancements in VLSI chip devices/circuits and its applications	Koneru lakshmaiah University ,Guntur	25/7/22/ to 29/7/22
Ms. Pangam Harika	Recent advancements in VLSI chip devices/circuits and its applications	Koneru lakshmaiah University ,Guntur	25/7/22/ to 29/7/22
Dr. Kompella Bhaskara Srinivasa Sarma	Unleashing emerging recent trends advancementsin computer science	VIT-AP University ,Amaravathi	4/7/22 to 14/7/22
Mr. V Anuragh	Unleashing emerging recent trends advancementsin computer science	VIT-AP University ,Amaravathi	4/7/22 to 14/7/22
Dr. Kusuma Raja Sekhar	Unleashing emerging recent trends advancementsin computer science	VIT-AP University ,Amaravathi	4/7/22 to 14/7/22
Dr. Namburi Satya Nagendra Lakshmipathi Raju	Research ARTICLE Writing using latex with hands on	Maturi Venkata Subbarao Engineering College,Hyderabad	5/9/22/ to 9/9/22
Dr. Thoram Saran Kumar	Python programming and its applications	G.Pullareddy Engineering College ,Kurnool	26/9/22 to 30/9/22
Dr. Namburi Satya Nagendra Lakshmipathi Raju	Python programming and its applications	G.Pullareddy Engineering College ,Kurnool	26/9/22 to 30/9/22
Mrs. Chavakula Sridevi	Research ARTICLE Writing using latex with hands on	Maturi Venkata Subbarao Engineering College,Hyderabad	5/9/22/ to 9/9/22
Mrs. Vallabhareddi Sandhya	Python programming and its applications	G.Pullareddy Engineering College ,Kurnool	26/9/22 to 30/9/22
Mr. Nadimpalli Phanikumar	Unleashing emerging recent trends advancementsin computer science	VIT-AP University ,Amaravathi	4/7/22 to 14/7/22
Mr. Nadimpalli Phanikumar	Applied robotic control	Festio India Pvt. Limited,Bengaluru	24/8/22 to 26/8/22
Mrs. Jalli Umamaheswari	Research ARTICLE Writing using latex with hands on	Maturi Venkata Subbarao Engineering College,Hyderabad	5/9/22/ to 9/9/22
Mrs. Jalli Umamaheswari	Applied robotic control	Festio India Pvt. Limited,Bengaluru	24/8/22 to 26/8/22
Mr. Inukonda Rama Satya Nageswara Rao	Python programming and its applications	G.Pullareddy Engineering College ,Kurnool	26/9/22 to 30/9/22
Mr. Yandamuri Sai Sandeep	Unleashing emerging recent trends advancementsin computer science	VIT-AP University ,Amaravathi	4/7/22 to 14/7/22
Ms. Kanakala Sivaranjini	Recent advancements in VLSI chip devices/circuits and its applications	Koneru lakshmaiah University ,Guntur	25/7/22/ to 29/7/22
Gundumenu Lakshmi Venkata Durga	Research ARTICLE Writing using latex with hands on	Maturi Venkata Subbarao Engineering College,Hyderabad	5/9/22/ to 9/9/22

FACULTY JOURNAL/CONFERENCE/PATENTS PUBLICATIONS

International Journals:

[1]. Vijayakumar, S. Anitha, R. Arivazhagan, A. D. Hailu, **T. V. Janardhana Rao**, and H. P. Pydi, "Wear Investigation of Aluminum Alloy Surface Layers Fabricated through Friction Stir Welding Method," *Advances in Materials Science and Engineering*, vol. 2022, Art. ID 4120145, pp. 1-8, Aug. 2022, doi: **10.1155/2022/4120145**. ISSN: 1687-8434.(SCI Expanded)

[2]. A. Pradeep, N. Kavitha, T. V. Janardhana Rao, and S. Vijayakumar, "Influence of Nano Alumina/Vegetable Oil-Based Cutting Fluid on MQL Turning of Stainless Steel 304," Materials Today: Proceedings, vol. 69, Part 3, pp. 658-661, 2022, doi: 10.1016/j.matpr.2022.06.547. ISSN: 2214-7853.**(Scopus Indexed)**

[3]. Dr. Jagadeesh Bodapati **Thoram Saran Kumar** "Fin-FET based power optimized and latency improved decoder design using 7nm" Juni Khyat, Volume no.12, Issue 12, Page no.265-320, Dec 2022

Conference Papers:

1.T. V. Janardhana Rao, A. Sekar, B. Drakshyani, P. Kalyan Chakravarthi, *et al.*, "IoT Based Smart Solution for Traffic Congestion at Metro Cities," in *Proceedings of the 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)*, 15–16 July 2022, pp. **1–6**, doi: **10.1109/ICSES55317.2022.9914174**.

Faculty Patent Published:

1. **"Designing a Framework of Construction Techniques with Smart Devices Integrated with Internet of Things."** The invention was filed by **Dr. T. V. Janardhana Rao** and published under **Application No. 202241056474A** on **21 October 2022**.

2. "**Machine learning based approach for implementing the concept of precision from lung cancer diagnosis to treatment**". The invention was filed by **Dr. T. V. Janardhana Rao** and published under **Application No. 202211035080A** on 1st July 2022.

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

Student editors:

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