



**NARSIMHA REDDY
ENGINEERING COLLEGE**

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Accredited by NBA & NAAC with "A" Grade



Volume: 8

Issue: 1



C@NNECT

Department of Electronics and Communication Engineering

Bulletin Half Yearly
July- December 2022

Vision

To evolve into a center of excellence in Electronics & Communications Engineering through creative and innovative practices in teaching-learning and Research in consonance with the contemporary and future needs of the society.

Mission

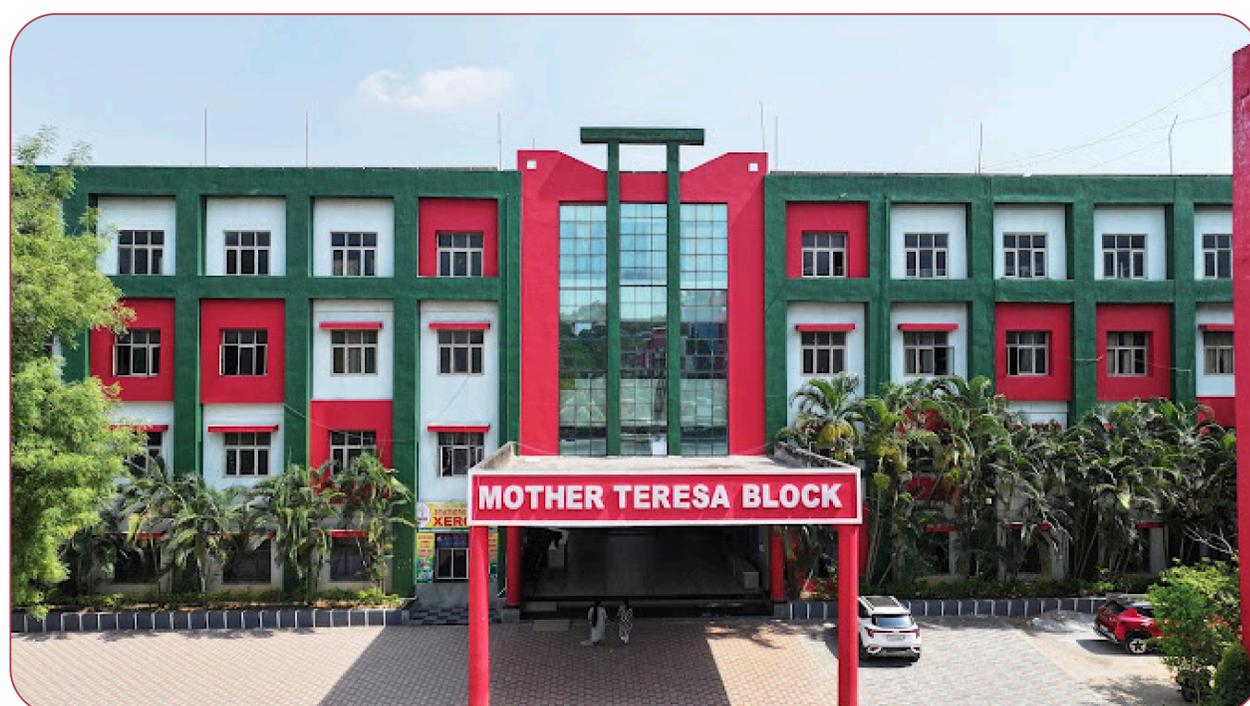
Mission 1: Inspire and encourage development of key ideas and innovations that can contribute to socio-economic development of India as well as society

ME2: Foster an innovative ecosystem in Electronics and Communication Engineering through collaboration with academia, industry, experts, and government. Promoting research and development among students and faculty

ME3: Offer advanced programs that foster research, higher education and ethical values, encouraging students to apply their knowledge and skills for national development and societal benefit

About ECE

The Department of Electronics & Communication Engineering was established in 2007 with an initial intake of 60 students. The intake was increased to 120 in 2008. All laboratories are furnished with advanced test and measuring equipment and custom-designed trainers to facilitate effective hands-on learning. The infrastructure and lab facilities are upgraded from time to time and provide good practical learning and innovative environment for the students and researchers. Students actively participate in national-level paper presentations conducted at IITs, NITs, and various reputed engineering institutions. The faculty are also actively involved in research, contributing regularly to national and international conferences and journals. As a part of the curriculum, industrial visits are arranged for all B. Tech students to provide exposure to real-world engineering practices.



MT Block

Head of the Department



Welcome to the July- December 2022 edition of our Electronics and Communication Engineering (ECE) department's newsletter. Inside, you will find articles and achievements of our students and faculty members. This newsletter also includes details about guest lectures, workshops, student chapter events, etc., offering insights into the current industry requirements. This ensures that our students and faculty are well- informed about real-world developments and are equipped to meet them.

As we strive to adopt new teaching methods and integrate the latest technologies, I'm confident in our ability to continue excelling. I thank all the students and faculty members who have worked hard and brought about this newsletter.

Dr. K. Purushotham Prasad

Awards & Participation

• The Coding Competition Helped Students Enhance Their Problem-Solving Skills, Logical Thinking, And Programming Efficiency Through Real-Time Challenges. ECE department students Lanka Venkata Naga Sathya Vinuthna, Gaddam Soumya, Rekula Chandra Shekar Reddy, Guttula Raviteja, Manepally Sai Charan Participated In Megathon 2022 On 22/10/2022 National Level Coding Competition Conducted At St Peters Engineering College.



Events Organized

The Seminar on “An Overview of Research methodology” was organized by the Department of ECE in association with ISTE, Narsimha Reddy Engineering College on 08th October 2022. The Seminar Research methodology refers to the positive results for students and researchers to deepen their knowledge and skills in conducting high Quality of research. The Seminar Mainly focused on Current trend technologies learning and Professional development in the field of research methodology .Such Initiative seminar Helps in advancing the research practices and promoting excellence in Academic and research endeavors



Welcome to
A Seminar on “ An Overview of Research methodology”
08th October 2022



Chief Guest
Dr Srinivas
Associate Professor
MLRIT Hyderabad



Organized By Department of ECE
IN Technical Association with Indian Society for Technical Education Hyderabad Chapter

Date & Venue : 08/10/2022 MT Block Seminar Hall



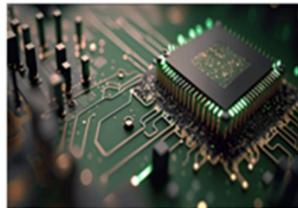
The Department of Electronics and Communication Engineering successfully organized a three-day workshop on “Embedded Design Development with STM32” in association with ISTE student chapter .The three-day workshop on “Embedded Design Development with STM32” was successfully conducted and provided valuable technical exposure to participants. The program effectively combined theory with practical implementation, equipping students and faculty with essential skills in embedded system development.



Welcome to
A Workshop On “Embedded Design development with STM 32”
12th September 2022



Chief Guest
Mr. B Naresh
Assistant Professor IARE
Hyderabad



Organized By Department of ECE
IN Technical Association with Indian Society for Technical Education Hyderabad Chapter

Date & Venue : 12/9/2022 MG Block Seminar Hall



Faculty Development Program

- The Department of ECE Conducted the faculty development program on FDP on “Recent Trends in IoT” from 11/7/2022 to 16/7/2022. The FDP on Recent Trends in IoT provided valuable insights into emerging technologies, modern applications, and evolving industry practices in the field of IoT. It enhanced faculty knowledge, strengthened teaching and research capabilities, and supported the integration of current technological advancements into the curriculum. Overall, the program contributed to academic enrichment and better preparedness for future technology-driven education
- The Department of ECE Conducted the faculty development program on FDP on “MIMO and OFDM Signal Processing for Wireless Systems” from 19-9-2022 to 24-9-2022 . The FDP on MIMO and OFDM Signal Processing for Wireless Systems provided comprehensive insights into advanced wireless communication techniques and their practical applications. It enhanced faculty knowledge of modern signal processing methods, improving both teaching effectiveness and research capabilities. Overall, the program contributed to academic development, strengthened technical expertise
- The Department of ECE Organized the faculty development program on FDP on “Recent Developments in Image Enhancement Techniques” from 14th November 2022 to 19th November 2022 . The FDP on Recent Developments in Image Enhancement Techniques successfully enhanced faculty understanding of modern image processing technologies and emerging research trends. It provided practical exposure to advanced algorithms and real-world applications, strengthening both teaching and research capabilities. Overall, the program contributed to academic enrichment, promoted innovation, and supported the effective integration of contemporary image enhancement techniques into the curriculum.
- The Department of ECE Organized the faculty development program on FDP on “Recent Developments in Image Enhancement Techniques” from 14th November 2022 to 19th November 2022 . The FDP on Recent Developments in Image Enhancement Techniques successfully enhanced faculty understanding of modern image processing technologies and emerging research trends. It provided practical exposure to advanced algorithms and real-world applications, strengthening both teaching and research capabilities.
- The Department of ECE Organized the Short term training Program on “VLSI RTL design and verification using Synopsys tools” on .The STTP on VLSI RTL Design and Verification using Synopsys Tools provided in-depth knowledge of modern VLSI design methodologies and industry-standard verification practices. It enhanced participants’ practical skills in RTL design, simulation, and validation, strengthening both teaching and research capabilities. Overall, the program contributed to technical competency, industry readiness, and effective integration of advanced VLSI design practices into academic learning



Student Publication :

S. No	Name of the Author	Title of the manuscript	Name of the Journal	Volume / Issue No/ISSN No	Month / Year
1	B Prashanthi K Kushal Nagendra R Sai Charan Ch Renu	A SCALABLE ACCURACY-CONTROLLABLE APPROXIMATE MULTIPLIER FOR LOW-POWER HIGH-SPEED APPLICATIONS	International Journal of Engineering Research and Science & Technology	Vol 18, Issue 4, ISSN 2319-5991	November 2022



Dr. R. Murugesan, Associate Professor, Department of Electronics and Communication Engineering (ECE), has filed a patent titled “Perception of the Role of Human Resources in the Strategic Positioning of the Company” (Application No. 202221054847 A). The patent application was filed on 24 September 2022 and published on 7 October 2022 in Issue No. 40/2022.

Journals/ Conferences/ Book Chapters

- **N. Ramesh Kumar published a paper titled “A Scalable Accuracy-Controllable Approximate Multiplier for Low-Power High-Speed Applications” in the International Journal of Engineering Research and Science & Technology in November 2022**



ChiefEditor Message



“ECE CONNECT” is a demonstration of our dedication to outstanding quality and an acknowledgment of the remarkable abilities nurtured at our institution. It serves as a venue for exchanging insights, concepts, and motivation

**Assistant professor
ECE Department**

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Enjoy your journey through this issue, and we hope it leaves you inspired and informed. Best wishes for delightful reading!

EDITORIAL Team