SRI SHANMUGHA
EDUCATIONAL INSTITUTIONS

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SRI SHANMUGHA
COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING

PROUDLY PRESENTS

"NEWS LETTER"
ACADEMIC YEAR - 2023 -2024 (JUNE - DEC)

Volume - I   **Issue No : 1**

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Vision and Mission of the Department

VISION

To develop globally competitive Electronics and Communication engineers to solve real-time problems in industry and society.

MISSION

M-1: To provide solid fundamental knowledge and technical skills through effective teaching learning Methodologies.

M-2: To provide a conducive environment through collaborations with industry and academia.

M-3: To inculcate learning of emerging technologies leading to lifelong learning.

M-4: To enable students to imbibe ethical and enterprising characteristics to become socially responsible engineers

Program Educational Objectives (PEOs)

PEO1 : Technical Expertise: Acquire a professional career and personal development in industries / higher studies / research / entrepreneurs.

PEO2 : Life-long learning: Sustain to develop their knowledge and skills throughout their career.

PEO3 : Ethical Knowledge: Exhibit professionalism, ethical attitude, communication skills, teamwork and adaptation to current trends.and skills throughout their career.

Programme Outcomes (POs)

PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems

PO2 Problem analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or proces ses that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations

PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions

PO5 Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations

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

Programme Outcomes (POs)

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 and responsibilities and norms of the engineering practice

PO9 Individual and team work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

PO11 Project management & finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments

PO12 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 (PSOs):

PSO1 : Design and test modern electronic systems by adapting emerging technologies.

PSO2 : Design and formulate solutions for industrial requirements using Communication, Networking, Signal processing techniques, Embedded systems and VLSI techniques

PSO3 : Develop solutions required in multidisciplinary engineering fields.

Message From the Head of the Department

DR.J.AMUDHA

Dear **ELARIO** Readers,

I am thrilled to welcome you to the Electronics and Communication Engineering Department. As the Head of Department, I am committed to providing you with a comprehensive and enriching learning experiences.Our department is dedicated to excellence in education, research, and innovation. We have a team of experienced faculty members who are passionate about helping you grow and develop your skills in electrical and electronic engineering to guide you towards achieving your academic and professional goals.You are the future innovators and problem-solvers in an increasingly tech-dependent world.. Success in ECE demands dedication, hard work, and a love for learning. I believe in each of you and am confident in your potential to excel in this dynamic field. Wishing you a fulfilling academic journey.

Dr.J.Amudha,

Head of the Department.

Message from the Association Coordinator
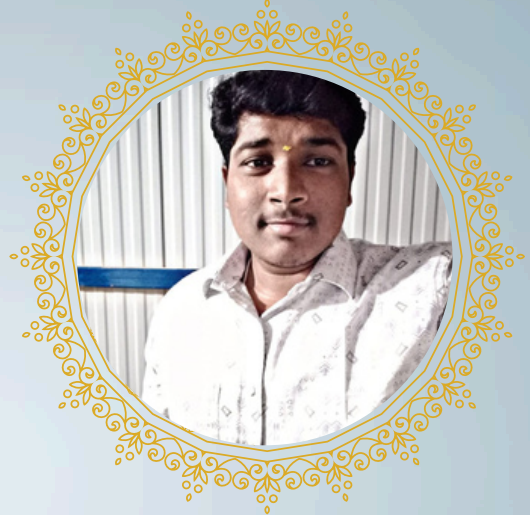

MR.R.PRADEEP-AP/ECE

Dear ELARIO Readers,

The heads and executive members of association work together to organize technical events such as symposia, workshops, national and international conferences, and so on. Association are well-formed, adhere to procedures, and strive towards the technical growth of the student community. Every year, the association is started with the introduction of Association Office Bearers. The office bearers consist of a Secretary, Vice Secretry & Treasurer from various years in the department. The department faculty, who serves as the Association Coordinator & supervises the association operations. All events are planned with approval from the department head and principal,Assiociation events are included in the department's academic calendar. The association conclude the year with a valedictory function, presenting an annual report on activities and honoring successful students.

Mr.R.Pradeep
Assistant Professor

Student Association Members

SATHYAKALA .M

SECRETARY

Hariprasath K.S

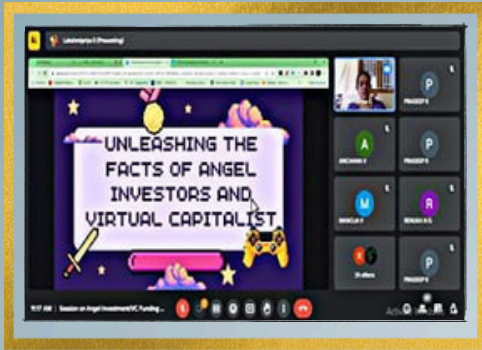JOINT SECRETARY

Malavika.V

JOINT SECRETARY

Tharani.S

OFFICE BEARER

Kesavan.N

OFFICE BEARER

Highlights of the Department (2023-24)

Online Seminar On "Unleashing the facts of Angel Investors and Virtual Capitalist" by Mrs. Lakshmipriya Ranjith.(Founder of Technomeraz Solutions)
📅 22/08/2023

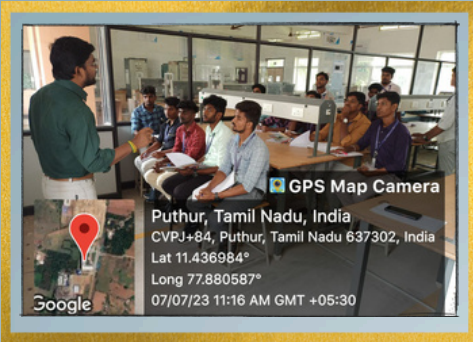Seminar On "How to Infer a reasearch paper" by Dr. J. Amudha, HOD/ ECE SSCET 📅 09/11/2023

Online Seminar On "Innovations in Drone Technology" by Dr. Balaji Madhavan,Head-Training and Skill Development Agni College of Technology, Chennai.
📅 23/02/2023

Highlights of the Department (2023-24)

Workshop on" Embedded Systems " by Mr.Amarnath Karthi. CEO of Embuzz Technologies.

Workshop on" Problem Solving and Ideation" by Mrs. LakshmiPriya Ranjith,(Founder of Technomeraz Solutions)
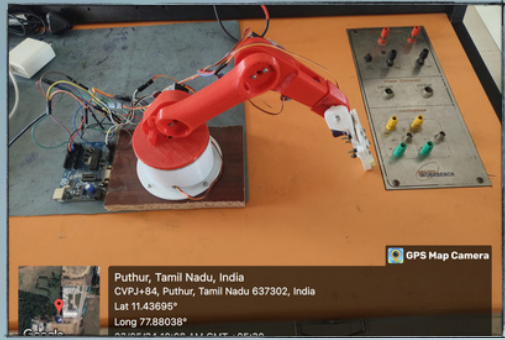

Workshop On "Design Thinking, Critical Thinking and Innovation Thinking" by Mr. Purushothaman Kannan.Jussur Emdad Human Resources Company, Saudi Arabia

Workshop on" IPR and IP management for startup" by Dr.B.Brindha Sakthi,Head-IPR,KCG College of Technology,Chennai
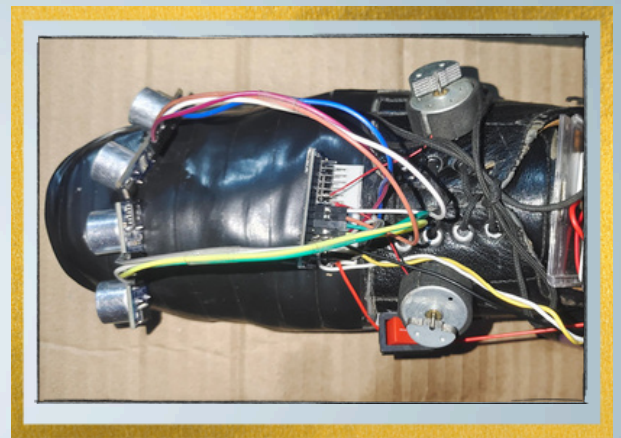
Student's Achievements

"An innovative project model harnessing AI to streamline waste segregation, optimizing efficiency and sustainability in waste management practices.

"A revolutionary project model empowering "Empowering the visually impaired with autonomous mobility for independent navigation."

"An essential project model incorporating advanced gas detection technology to safeguard against potential hazards in the oil and gas industry ensuring worker safety.

Student's Achievements

"An innovative project model designed to prevent road accidents, utilizing advanced technology"

"A cutting-edge project model integrating RFID technology with open-door alarms, bolstering security and access control"

"A life-saving project model featuring an alcohol indicator system aimed at preventing road accidents"

Student's Achievements

"Congrats to Lathika.M from our department for securing 1st place at MORPHEUS'24, hosted by Erode Sengunthar Engineering College. A true testament to talent and dedication!"

" Student Parthasarathi.D celebrates 2nd place in the debate event at IYAL'23. Well done on this achievement!"

"Student Hariprasath K.S triumphs as the 1st place winner in the debate event at IYAL'23. Congratulations on this impressive victory!"

Student's Achievements

"D. Parthasarathi - CPL is dedicated to NCC, actively participating in camps for training and knowledge enrichment."

" Hemalatha.V as she is awarded Best Performer at INSPIRE '23. Congratulations on this outstanding achievement!"

"Murugammal and Nakula Kavya shine bright as they win the prize for code debugging at SSM College of Engineering and Technology. Congratulations on this impressive achievement!"

Student's Achievements

Parthasarathi.D delivers a comprehensive seminar on rocket launching procedures, showcasing expertise and knowledge in the field."

Proudly congratulates Meiyarasan.S for being recognized as the Best Library User of December '23.

Sathya.R & Varsha.S delivers a captivating seminar on signals and systems, showcasing deep understanding and expertise in the subject."

Student's Achievements

D. Akash and M. Giritharan, excel not only in academics but also in sports. They clinch the winner's title in football at the 'Iyarkai 23' event, a testament to their dedication and daily practice. Congratulations on this well-deserved victory!"
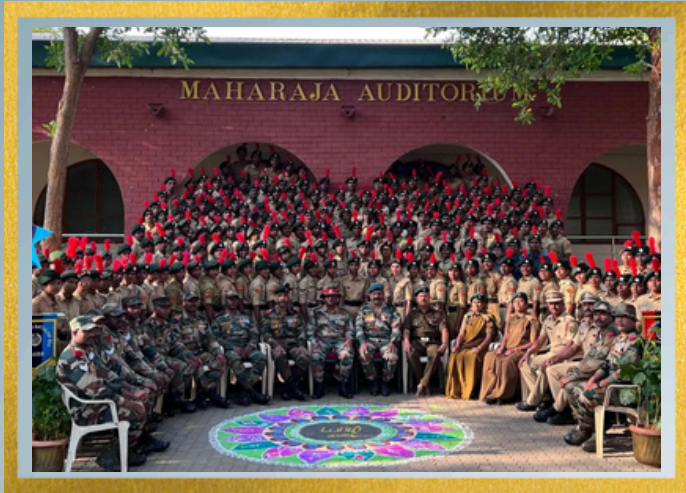
J. Sripriya and V. Kiran Swetha shine as pillars in their teams, playing pivotal roles in securing the Kabaddi championship at the 'Iyarkai 23' event. Their expertise in sports is commendable and contributes significantly to their team's success.

" Aarthi, Swathi, and Sripriya shine as key players in their Kabaddi teams, securing medals at the tournament hosted by Trichy BIT College. Their dedication and skill contribute to their team's success.

Student's Achievements

NCC Cadets D.Parthasarathi, S.Meiyarasan attend a CATC camp at Kongu college of engineering .

N.Kesavan has participated in Paper Presentation and quiz. at KONGU College of Engineering and technology.

N.Kesavan has participated in Paper Presentation and quiz. at MAHENDRA College of Engineering and technology.

Editorial Team

Dr.J.AMUDHA
HOD / ECE

Mr.R.PRADEEP
AP / ECE

Mr.E.SANTHOSH
AP / ECE

Mr.D.PARTHASARATHI
STUDENT / III- ECE

Ms.V.HEMALATHA
STUDENT / III- ECE

Message from the Editorial Desk

Dear ELARIO Readers,

We hope this message finds you well. As the editorial team, we wanted to take a moment to express our gratitude for your continued support and participation in our association.

In this Academic Year, we have seen remarkable growth and progress in our collective efforts to advance our field. From insightful research papers to engaging discussions at conferences and events, your contributions have been invaluable in shaping the direction of our discipline.

As we move forward, we are committed to further enhancing the quality and impact of our publications and activities. We encourage you to stay connected and actively involved in our association. Your involvement not only strengthens our community but also enriches the experiences of all members.

Thank you once again for your dedication and support.

THANK YOU