DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NEWS LETTER

2022-23-Volume-1: Issue-2 December

VISION OF THE DEPARTMENT

To impart quality technical education in the field of Electronics and Communication Engineering in the young minds for serving the Society and Industry in a globally challenging environment.

MISSION OF THE DEPARTMENT

To provide sound technical knowledge on Electronics and Communication Engineering to the students

To prepare the students for working in global challenges existing in the industries

To instill competencies in the students for working in interdisciplinary work culture

To create desire for undertaking lifelong learning and entrepreneurship initiatives

PROGRAMME EDUCATIONAL OBJECTIVES (PEO'S)

PEO 1. To educate the students for acquiring sound knowledge in the field of Electronics and Communication Engineering and interdisciplinary field, so as to meet the needs in the field of Electronics and Communication industries.

PEO 2. To provide knowledge and skills for developing new products in the field of Electronics and communication.

PEO 3. To offer excellent academic learning environment in department of Electronics and Communication for facilitating students to become eminent team players.

PEO 4. To facilitate the students with necessary knowledge in the field of Electronics and Communication Engineering so as to succeed in competitive examination for pursuing higher studies.

PEO 5. To expose the students on professional, ethical and social skills to shape them with leadership quality for analyzing and solving engineering and social issues.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

1. ECE fundamental concepts: To analyze, design and develop solutions by applying foundational concept of electronics and communication engineering.

2. Design Principles and Best practices: To apply design principles and best practices for developing quality products for science and business applications.

3. Innovations through ICT: To adapt to emerging information and communication technologies (ICT) to innovate ideas and solutions to existing/novel problems .

CHIEF EDITORS

DR.K. TAMILARASI
AP/ECE

MRS R. PUSHPAVATHI
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AP/ECE

EDITORIAL STUDENT MEMBERS

AMUTHA S
II Year B.E.ECE

ABISHA S
III Year B.E.ECE

AASHA SAPKOTA
IV Year B.E.ECE

ACDEMIC ACTIVITIES

A **Workshop on Robotics** was conducted on **08.10.2022**, coordinated by **Mr. Sakthivel** and **Mr. Loganathan**, ECE. The workshop provided hands-on experience in robotics, enhancing students' technical skills and practical knowledge in automation and control systems.

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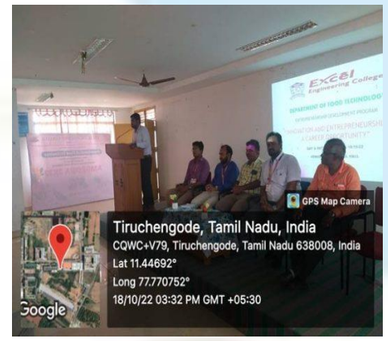
An **Entrepreneurship Development Program** on **Developing Entrepreneurial Mindsets** was conducted, coordinated by **Prof. Mohankumar Iyer**, Program Coordinator, Department of MBA, Excel Engineering College. The program aimed to inspire students to cultivate entrepreneurial thinking and innovate effectively in business ventures.

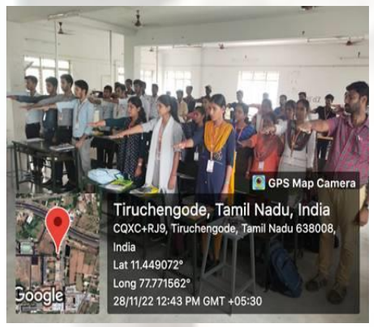


A **Seminar on Intellectual Property Rights (IPR)** was conducted on **29.10.2022**, coordinated by **Dr. S. Jayapoorani**, Professor/ECE. The seminar provided insights into IPR concepts, emphasizing the importance of protecting innovations and creative works.

NON ACDEMIC ACTIVITIES

An **Awareness Rally on Gender Equality** was organized on **15.10.2022**, coordinated by **Ms. K. Kodeeswari**, AP/ECE. The event aimed to promote equality, inclusivity, and respect for all genders among students and the community.

A **World Television Day Celebration** was organized on **12.11.2022**, coordinated by **Dr. G. Jagajothi**, Professor/ECE. The event highlighted the role of television in communication, education, and raising awareness on global issues.



A **Constitution Day** celebration was organized on **28.11.2022**, coordinated by **Ms. Theivanayaki**, AP/ECE. The event emphasized the significance of the Indian Constitution and the importance of upholding its values and principles.

An **International Day against Corruption and Human Rights Day** event was organized on **12.12.2022**, coordinated by **Ms. K. Kodeeswari**, AP/ECE. The event aimed to raise awareness about combating corruption and promoting human rights among students and the community.

FACULTY ACHIEVEMENT

Dr. S. Anbukarupusamy published a research paper titled "Efficient Feature-Based Video Retrieval and Indexing Using Pattern Change with Invariance Algorithm" in the **Journal of Intelligent and Fuzzy Systems**, **Scopus** indexed, Vol. 44, Issue 2, 2023. DOI: 10.3233/JIFS-221905

Dr. A. Vasantharaj published a research paper titled "Efficient Feature-Based Video Retrieval and Indexing Using Pattern Change with Invariance Algorithm" in the **Journal of Intelligent and Fuzzy Systems**, **Scopus** indexed, Vol. 44, Issue 2, 2023. DOI: 10.3233/JIFS-221905

Dr. S. Jayapoorani published a research paper titled "Systolic Optimized Adaptive Filter Architecture Designs for ECG Noise Cancellation by Vertex-5" in the journal **Aerospace Systems**, **Scopus** indexed, November 2022. DOI: https://doi.org/10.1007/s42401-022-00177-3

Ms. K. Kodeeswari published a research paper titled "Deep Learning Based Remotely Monitoring COVID Patient and Vaccine Side Effects Using Wearable Devices" in the **International Journal of Research and Analytical Reviews**.

Mr. N. Rajagopala Krishnan published a research paper titled "IoT Based Real-Time Soldier Health Care Monitoring System in Battlefield" in the **International Journal of Research and Analytical Reviews**, Vol. 9, Issue 2, 2022.

Ms. A. Anitharani published a research paper titled "Plant Leaf Disease Image Detection and Classification Using ANN" in the **International Journal of Research and Analytical Reviews**.

Dr. K. Tamilarasi authored the book **"Machine Learning Algorithms"**, published by **SciTech Publications**, ISBN: **978-93-5757-455-6**.

Patent: Dr. A. Vasantharaj (ID: 202241067919 A) filed a patent for "Artificial Intelligence-Based Approach Integrated with IoT Powered by Solar Energy for Unmanned Air Filling of Tires of Vehicles," published on **16/12/2022**.

Ramya M (ID: 202241052856A) published a research work titled "Machine Learning and IoT Based Approach to Analyse the Characteristics of Various Nano Materials and Their Impact in Improving the Agricultural Field" on **07/10/2022**.

STUDENTS ACHIEVEMENTS

M. Archanaa won **II Prize** in **SA Writing** held on **11/09/2022** at **Excel Engineering College – English Literary Association of EEC**.