



St. XAVIER'S
CATHOLIC COLLEGE OF ENGINEERING
(Autonomous)

Chunkankadai, Nagercoil - 629003
Kanyakumari District, Tamil Nadu

Approved by AICTE & Affiliated to Anna University, Chennai
Accredited with 'A' Grade by NAAC
UG Programs(ECE, EEE, Mech, Civil, CSE & IT) Accredited by NBA
Anna University Recognized Research Institute
Recognized under section 2(f) & 12(B) of UGC Act, 1956
UG Programs(ECE, EEE, Mech, Civil, CSE & IT),
MBA & MCA Programs Permanently Affiliated



ELECTROS – Association

ECE Department

Newsletter

2024-2025

July 2024 to December 2024



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ELECTROS – Association

ECE Department

Editors

Dr. J. Arul King, AP/ECE

Ms. Arathi Krishna K G, IV ECE A

Mr. Mohamed Shameem S, IV ECE B

Mr. Abhishek A, III ECE A

Ms. Daphni V S, III ECE A

OBJECTIVE:

To be one of the best platform of Electronics and Communication Engineering that provides education, research and transfer to the community a large and to be recognized as a place that encourages excellence and diversity in thought and endeavour.

VISION:

To emerge as a leading department in creating students with unique technological spirit of creativity and leadership skills that enables them to make a global impact towards the availability of technology to mankind from all walks of life.

MISSION:

1. To impart quality education, training and research at the undergraduate, post graduate and doctoral level in all the levels of Electronics and Communication Engineering.
2. Establish a unique learning environment to enable the students to face the challenges of the Electronics and Communication Engineering field.
3. To help the students to develop the skills to solve the complex technological problems of modern society.
4. To equip the students with a broad intellectual spectrum inorder to prepare them for diverse and competitive career path.

OUTCOME:

On completion of degree the Electronics and Communication graduates will be able to:

1. Utilize the basic knowledge in mathematics, science and engineering in Electronics and Communication Engineering field.
2. Identify, formulate and solve complex problems to achieve demonstrated conclusions using mathematical principles and engineering sciences.
3. Apply the contextual knowledge to assess societal, health, safety and cultural issues and endure the consequent responsibilities relevant to the professional engineering practice.
4. Perform effectively as a member/leader in multidisciplinary teams.





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ELECTROS OFFICE BEARERS

ELECTROS, the electronics society of our college was initially started in the year 2001. It aims to enrich the technical knowledge of the engineers in the field of Electronics and Communication Engineering by conducting various programs, including technical seminars, guest lectures, hands-on workshops, industrial visits, and technical competitions, which help the students develop their skills to solve the complex technological problems of modern society and bridge the gap between academics and industry.

Secretary	: Ms. Arathi Krishna K G, IV ECE A
Joint Secretary	: Mr. Mohamed Shameem S, IV ECE B
Treasurer	: Mr. Abhishek A, III ECE A
Executive Members	
	: Ms. Fathima Renosha M R
	: Ms. Rashima Basni Kumar C
	: Mr. Prabin R
	: Mr. Deependran P
	: Ms. Daphni V S
	: Ms. Sharon Selva Princy P
	: Mr. Thamizh Chelvan T
	: Ms. Anunitha C
	: Mr. Alsworth A
	: Mr. Nitin Joel C
	: Ms. Vaishnavi S B
	: Ms. Abinisha B R
	: Ms. Chelsia R A



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Seminar on Immersive Technology in AR & VR

Date: 19/08/2024 | Time: 01.00 pm to 02.30 pm | Duration: 2 Hour

Venue: EEE Seminar Hall | Mode: Offline | Level: Department

Resource Person

Mr. Sundara Raman

National Head, Scopik Edutech, Chennai. AR VR Techno-Marketing, Corporate Relationship with
TN & Kerala State Government Skill Development.

Description about the Seminar:

A seminar on "Immersive Technology in AR & VR" was conducted on August 19th, 2024, from 01:00 p.m. to 2.30 p.m. for the final year ECE students at Seminar Hall. Mr. Sundara Raman, National Head, Scopik Edutech, Chennai, offered an insightful overview of developments in augmented and virtual reality. Expert discussed the potential use cases in fields like education, healthcare, and entertainment, highlighting how these technologies can transform user experiences. Key obstacles, such as hardware limitations and content creation, were also addressed. Overall, the event underscored the growing significance of AR and VR in shaping the future of digital interaction. It was a highly effective seminar.



Career guidance to get a job in Core Company

Date: 23/08/2024 | Time: 01.00 pm to 04.15 pm | Duration: 4 Hour

Venue: ECE Classrooms | Mode: Offline | Level: Department

Number of participants: 150 Students.

Resource Person

Mr. S. Kumaresan

Technical Manager, CAD Arts, Nagercoil.

Description about the Seminar:

A Career guidance program on "To get a job in Core Company" was conducted on August 23th, 2024, from 01:00 p.m. to 4.15 p.m. for the third and final year ECE students at their own Classrooms. Mr. S. Kumaresan, Technical Manager, CAD ARTS, Nagercoil, focuses on helping students to understand the skills, qualifications, and pathways required to enter fields like manufacturing, engineering, or energy. He provides insights into industry trends, key technical competencies, and certifications that enhance employability. It was a highly effective seminar. Participants learn about networking, resume building, and interview techniques specific to core sectors. Real-world experiences from industry professionals further guide attendees on how to succeed in their chosen careers.



Seminar on Digital Marketing

Date: 23/08/2024 | Time: 02.30 pm to 04.15 pm | Duration: 2 Hour

Venue: ECE Classrooms | Mode: Offline | Level: Department

Number of participants: 120 Students

Resource Person

Mr. Ashok Remi John

CEO, Makos Infotech Pvt Ltd, Chennai.

Description about the Seminar:

A Seminar on “Digital Marketing” was conducted on August 23th, 2024, from 02:30 p.m. to 4.15 p.m. for the second year ECE students at their own Classrooms. Mr. Ashok Remi John, CEO, Makos Infotech Pvt Ltd, Chennai, provided an in-depth overview of the current landscape and strategies in the digital realm. Key topics included search engine optimization (SEO), social media marketing, content marketing, and email campaigns, with a focus on driving online traffic and improving conversion rates. Expert speaker discussed the importance of data analytics in measuring campaign success and optimizing strategies for better ROI. The role of artificial intelligence and automation tools in streamlining marketing efforts was also emphasized. The seminar concluded with a Q&A session, allowing participants to clarify their doubts and gain personalized insights.



Field Trip Horticulture Farm, Pechiparai

Date: 27/08/2024 | Time: 09.00 am to 04.15 pm | Duration: One Day

Venue: Pechiparai | Mode: Field Trip | Level: Department

Number of participants: 90 Students with 6 faculty members.

Resource Person

Mr. Siva

Farm Manager, Horticulture farm, Pechiparai

Description about the Seminar:

A field trip to "Horticulture Farm, Pechiparai" was organized on August 27th, 2024, from 09:00 a.m. to 4.15 p.m. for the final year ECE students. Mr. Siva, Farm Manager, Horticulture farm, Pechiparai, provided valuable insights into modern agricultural practices. Students were introduced to various horticultural techniques, including organic farming, crop rotation, and irrigation systems. The farm showcased a wide range of fruits, vegetables, and medicinal plants, highlighting sustainable farming methods. Experts at the farm explained the significance of pest control, soil management, and the use of bio-fertilizers. The trip also included a tour of the farm's greenhouse and nursery, where saplings are cultivated. Overall, it was an informative experience, enhancing the students' knowledge of horticulture and sustainable agriculture.



Mass anti drug pledge on Drug free Tamilnadu

Date: 28/08/2024 | Time: 10.45 am to 11.30 am | Duration: One Hour

Venue: ECE Classrooms | Mode: Field Trip | Level: Department

Number of participants: All ECE Students

Resource Person

All faculty

Description about the Seminar:

A mass anti-drug pledge on "Drug free Tamilnadu" was conducted on August 28th, 2024, from 10:45 a.m. to 11.30 a.m. for all the ECE students at their own classrooms. All faculty members participated in the pledge. The Mass Anti-Drug Pledge campaign in Tamil Nadu aimed to raise awareness about the dangers of drug abuse and promote a drug-free society. Organized as part of the "Drug-Free Tamil Nadu" initiative, it saw widespread participation from students, government officials, and the general public. The campaign emphasized the importance of collective responsibility in tackling drug-related issues and preventing addiction. The Pledge highlighted the government's commitment to strict enforcement and rehabilitation efforts. The event served as a powerful reminder of the role communities play in creating a safer, healthier future for the state.



Value Added Course on Advanced Digital Marketing

Date: 09/09/2024 to 13/09/2024 | Time: 09.00 am to 04.15 pm | Duration: 40 Hour

Venue: ECE Classrooms | Mode: Offline | Level: Department

Number of participants: 123 Student (Second Year ECE)

Resource Person

Mr. Ashok Remi John

Chief Executive Office,
Makos Infotech Pvt Ltd

Ms. Abitha K

Digital Marketing Executive,
Makos Infotech Pvt Ltd

Ms. Nivedhaa P

Business Development Executives,
Makos Infotech Pvt Ltd

Description about the Seminar:

A Value-Added Course on “Advanced Digital Marketing” was conducted on 09/09/2024 to 13/09/2024, from 09.00 am to 04.15 pm. for all the Second ECE students at their own classrooms. Mr. Ashok Remi John, Chief Executive Office, Makos Infotech Pvt Ltd with their company faculty has provided in-depth training on cutting-edge digital marketing strategies, including SEO, SEM, social media marketing, and data analytics. Participants gained hands-on experience with digital tools and platforms, enhancing their ability to drive business growth through effective online campaigns. The course concluded with case studies and a practical project, enabling learners to apply the knowledge in real-world scenarios.



Online Workshop on SEMICON INDIA 2024

Date: 11/09/2024 | 10.30 am to 12.15 pm | Duration: 2 Hours

Venue: VLSI Lab | Mode: Online | Level: International

Number of participants: All over India

Resource Person

Mr. Arun S Kumar

Director of Global Semiconductors. India

Description about the Seminar:

An online workshop on “SEMICON INDIA 2024” was organized on September 11th, 2024, from 10:30 a.m. to 12.15 p.m. for the final year ECE students. Shri Narendra Modi, Prime Minister, India, highlighted government initiatives aimed at fostering investment, infrastructure, and talent development in the semiconductor sector. Mr. Arun S Kumar, Director of Global Semiconductors. delivered an engaging talk, focusing on India's pivotal role in the global semiconductor industry. He emphasized the importance of investing in advanced technology and building a skilled workforce to drive innovation. His insights highlighted India's potential to become a global leader in semiconductor manufacturing and R&D.



Industrial Visit to Equatorial Geophysical Research Laboratory EGRL, Tirunelveli

Date: 19/09/2024 | Time: 09.00 am to 06.00 pm | Duration: One Day

Venue: VLSI Lab | Mode: Industrial Visit | Level: Tirunelveli

Number of participants: 121 Students with 5 faculty members.

Resource Person

Dr. S. Sripathi

Head, EGRL, Tirunelveli

Description about the Seminar:

An Industrial visit to “Equatorial Geophysical Research Laboratory (EGRL), Tirunelveli” was organized on September 19th, 2024, from 09:00 a.m. to 6.00 p.m. for the Second year ECE students. Dr. S. Sripathi, Head, EGRL, Tirunelveli, provided insights into geomagnetic research and monitoring. He explained how geomagnetic observations are crucial for understanding the Earth's magnetic field, space weather, and its effect on satellites and communication systems. The laboratory conducts significant research on geomagnetism, ionospheric studies, atmospheric electricity, and other atmospheric processes. Due to its strategic location close to the geomagnetic equator, EGRL plays a crucial role in monitoring and studying the Earth's magnetic field and related phenomena. The students had an interactive session with the scientists and researchers working at EGRL. The session was highly informative, as students could ask questions about the ongoing projects, career opportunities in geophysics, and the role of geomagnetic research in societal applications, such as navigation, communication, and earthquake prediction.



Inauguration of ELECTROS - 2024-2025

Date: 20/09/2024 | Time: 09.00 am to 12.15 pm | Duration: 4 Hour

Venue: Conference Hall | Mode: Offline | College

Number of participants: 370 Students

Resource Person

Mr. Prem Kumar S.K

Digital Media Senior Editor, Vikatan, Chennai.

Description about the Seminar:

The inauguration of Electros for the academic year 2024-2025 was conducted on September 20th, 2024, from 09:00 a.m. to 12.15 p.m. for all ECE students at Conference Hall. Mr. Prem Kumar S.K., Digital Media Senior Editor, Vikatan, Chennai, provided valuable ideas to improve students career growth. He gave advice to the student to update regularly. Like reading books, blogs, etc. Next, he focuses on fixing the destination. Students should know the goal and work for it. Last he said, "Stick on to the basics" of the core engineering. If you want to shine in engineering, students should understand the basics of electronics and communication thoroughly. The seminar concluded with a Q&A session, allowing participants to clarify their doubts and gain personalized insights.



Seminar on Jobs in Banking & Government Sector

Date: 18/09/2024 | Time: 11.30 am to 12.15 pm | Duration: 1 Hour

Venue: ECE Classrooms | Mode: Offline | Level: Department

Number of participants: 110 Students

Resource Person

Mr. Vasantha Kumar

Managing Director, ECC Academy, Nagercoil

Description about the Seminar:

The ELECTROS – Association of ECE Department organized a seminar on “Jobs in Banking & Government Sector” on September 18th, 2024, from 11:30 a.m. to 12.15 p.m. for the final year ECE students at ECE Classroom. Mr. Vasantha Kumar, Managing Director, ECC Academy, Nagercoil, aimed at guiding students about career opportunities in banking & government fields. He shared insights on required skills, career growth, and recruitment processes. The seminar highlighted the contrast between the profit-driven nature of banking and the public service focus of government roles. Attendees received valuable tips on preparing for competitive exams and interviews. The event concluded with a Q&A session, allowing participants to clarify their career-related queries. It was a highly effective seminar.



GPS Map Camera

Alur, Tamil Nadu, India

ECE and EEE Department, St Xavier's College Rd, Chunkankadai, Alur, Nagercoil,
Tamil Nadu 629003, India
Lat 8.195821°

Industrial Visit to
**Visvesvaraya Industrial and Technological Museum &
CDAC, Bangalore**

Date: 25/09/2024 & 26/09/2024 | **Time:** Full Day | **Duration:** Two Day
Venue: Bangalore | **Mode:** Industrial Visit | **Level:** Department

Number of participants: 83 Students with 5 faculty members.

Resource Person

Mr. Sunderrajan
CDAC, Bangalore

Description about the Seminar:

The ELECTROS – Association of ECE Department organized an Industrial visit to “Visvesvaraya Industrial and Technological Museum & Centre for Development of Advanced Computing (C-DAC), Bangalore” on September 25th & 26th, 2024, for the third year ECE students. Mr. Sunderrajan, CDAC, Bangalore, introduced students to the forefront of research and development in supercomputing, cybersecurity, and artificial intelligence. CDAC experts shared insights into their key projects, including PARAM Utkarsh series supercomputers and advancements in digital governance. At the Visvesvaraya Industrial and Technological Museum, students explored interactive exhibits on science, engineering, and technology innovations.



Seminar on Entrepreneurship and Innovation as Career Opportunity

Date: 13/09/2024 | Time: 01.00 pm to 02.30 pm | Duration: 2 Hour

Venue: VLSI Lab | Mode: Offline | Level: Department

Number of participants: 55 Students.

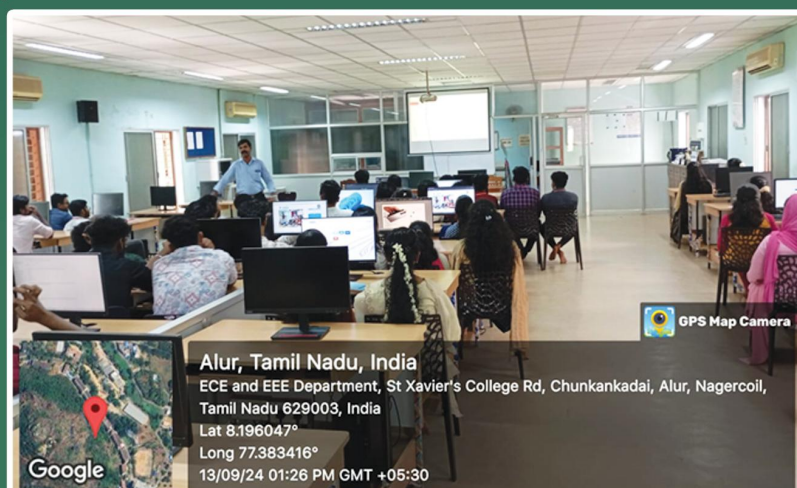
Resource Person

Dr. Sujin Jose Arul

Associate Professor, NHCE, Bangalore.

Description about the Seminar:

The ELECTROS – Association of ECE Department organized a seminar on “Entrepreneurship and Innovation as Career Opportunity” on September 13th, 2024, from 01:00 p.m. to 02.30 p.m. for the final year ECE students at VLSI Lab. Dr. Sujin Jose Arul, Associate Professor, NHCE, Bangalore, highlighted the intersection of intellectual property rights (IPR) with business innovation. It explored how IPR plays a crucial role in protecting innovations, promoting startups, and enabling entrepreneurs to capitalize on their ideas. He emphasized the importance of patents, trademarks, and copyrights in fostering creativity and offering competitive advantages. Participants were introduced to career opportunities in IPR management, consultancy, and legal services. The session provided practical insights into the legal frameworks and strategies for leveraging IPR in building successful ventures. It was a highly effective seminar.



Seminar on
Emerging technologies in 2025”

Date: 22/10/2024 | Time: 10.30 am to 02.30 pm | Duration: 4 Hour

Venue: ECE Classrooms | Mode: Offline | Level: Department

Number of participants: 152 Students

Resource Person

Mr. Vinoth Jose Raj E

CEO, Dream Tech Training & Services, Nagercoil.

Mr. Nowfal Ahamad

Technical Head, Vian Corp Solution, Nagercoil

Description about the Seminar:

The ELECTROS – Association of ECE Department organized a seminar on “Emerging technologies in 2025” on October 22nd, 2024, from 10:30 a.m. to 02.30 p.m. for the third and final year ECE students at their Classrooms. Mr. Vinoth Jose Raj E. CEO, Dream Tech Training & Services, Nagercoil, and Mr. Nowfal Ahamad, Technical Head, Vian Corp Solution, Nagercoil, highlighted emerging technologies focused on revolutionary advancements such as AI-driven automation, quantum computing, 5G connectivity, and breakthroughs in biotechnology. Key topics included the integration of AI in everyday processes, the potential of quantum computing to solve complex problems, and the impact of biotech innovations on human health and agriculture.



Seminar on Skill Connect 24 Competition

Date: 23/10/2024 | Time: 01.00 pm to 02.30 pm | Duration: 2 Hour

Venue: ECE Classrooms | Mode: Offline | Level: Department

Number of participants: 126 Students

Resource Person

Mr. Ezhilarasu M

Customer Relationship Manager (CRM),
Networkz Systems, Nagercoil

Description about the Seminar:

The ELECTROS – Association of ECE Department organized a Skill Connect'24 Competition in association with Networkz Systems on October 23rd, 2024, from 01:00 p.m. to 02.30 p.m. for the second and final year ECE students at their Classrooms. Mr. Ezhilarasu M, Customer Relationship Manager (CRM), Networkz Systems, Nagercoil, along with his six-member team conducted Skill Connect'24 Competition focused on showcasing technology skills in a pen-and-paper format, allowing participants to demonstrate their expertise without digital aids. The competition included coding, technical problem-solving, and concept visualization. The event highlighted essential skills in logic and algorithmic thinking while minimizing reliance on computers. Skill Connect'24 proved that technical acumen and creativity thrive even in offline modes.





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