



St. XAVIER'S
CATHOLIC COLLEGE OF ENGINEERING
Chunkankadal, Kanyakumari District, Tamil Nadu

Accredited with 'A' Grade by NAAC
All UG Programs Accredited by NBA
Recognized under section 2(f) & 12(B) of UGC Act, 1956
All UG, MBA & MCA Programs Permanently Affiliated

NEWSLETTER

2021-2022

ELECTROS

DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

VISION

Developing technically competent Electronics and Communication Engineers with academic excellence, innovative research, ethical standards and international outlook to serve the society.

MISSION

M1:To provide quality teaching in order to produce graduates with academic excellence, technical competence and ethical values.

M2:To develop advanced professionalism and exceptional career growth through inspiring faculty members and excellent infrastructure.

M3:To create awareness on state of the art technologies through research and industry-institute collaboration.

M4:To inculcate a sense of innovation and commitment among the students to apply knowledge and technologies for the benefit of the society.

EVENTS ORGANIZED

ELECTROS Inauguration

The Virtual Inauguration of all Department Association for the academic year 2021-22 was organized on 25-09-2022. The inaugural ceremony started with the prayer song and the welcome address was given by Ms. S.Sanjana of Final IT. The Office Bearers of the association ELECTROS was introduced by the Faculty Advisor Mrs.V.Femila Savio. The Secretary of ELETROS Ms.Steni G. presented the year plan report. Rev. Fr. Dr. M. Maria William, Correspondent of the institution delivered the presidential address and Dr. J. Maheswaran, Principal felicitated the gathering. Mr. S. Murshith Ahamed of Final CSE delivered the Vote of Thanks. The Inauguration program was conducted through Google Meet and it was live streamed in YouTube for the students.

A Five days Virtual Faculty Development Programme on “Emerging Technologies & Innovation in Industry 4.0”

ELECTROS organized a Five days Virtual Faculty Development Programme on “Emerging Technologies & Innovation in Industry 4.0” from 6th to 10th September 2021. The FDP was started with inauguration function at 1:30 p.m. by Rev. Dr. M. Maria William, Correspondent and Dr. J. Maheswaran, Principal, SXCCE. The programme was conducted through Google meet platform.

❖ Day 1 (06.09.2021): Multidisciplinary opportunity in future Industry 4.0

- Resource person: Dr.Rajakumar G./Assoc.Prof,
Francis Xavier Engineering College,
Vannarpettai, Tirunelveli.



❖ Day 2 (07.09.2021): NOMA based 5G Wireless Communication

- Resource person: Dr.D.Judson/Assoc.Prof
SXCCE.



❖ Day 3 (08.09.2021): An overview of Deep Learning

- Resource person: Dr.X.Ascar Davix/Assoc.Prof,
Dept. of ECE,
R.V.R & J.C. College of Engineering,
Guntur, Andhrapradesh.



❖ Day 4 (09.09.2021): Towards Computer Vision

- Resource person: Dr.C.Seldev Christopher/Prof
SXCCE.



❖ Day 5 (10.09.2021): Cloud Automation using Alibaba Cloud

- Resource person: Er.S.Gavaskar/Delivery Director
MultiCloud4U, Guragon,
Haryana.



The number of faculties participated in the FDP were 67. Among them 46 faculties were from our college and 21 faculties from other colleges.

Webinar on “Leadership through Professional Development”

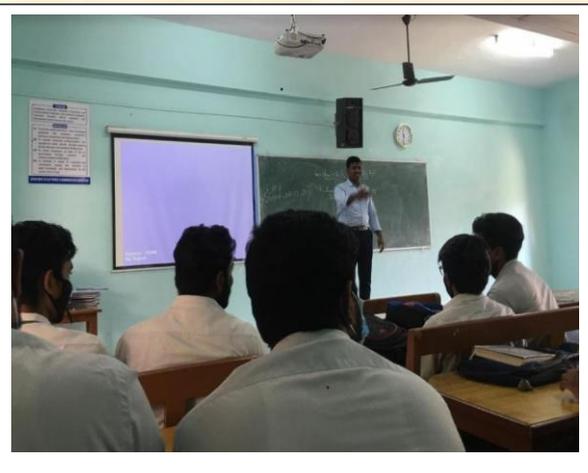
ELECTROS organized a Webinar on” Leadership through Professional Development”. It was conducted on 15-09-2021(Engineers’ Day). The objective of this webinar is to create the Engineering leaders and Innovators of tomorrow. The Resource person was Ms. Ankayarkanni Rajendran, our Alumna & IEEE Member working as Software Engineer in Formcept Technologies & Solutions Pvt. Ltd, Bangalore, India. She shared her experience and motivated the students to take part in the professional body activities. 15 faculty members from our college and 24 students from 3rd year ECE were participated.



Ms. Ankayarkanni
Rajendran,
Software Engineer
Formcept Technologies &
Solutions Pvt. Ltd.
Bangalore.
India.

Seminar on “Project Guidance”

ELECTROS organized a Seminar on “Project Guidance”. It was conducted on 05-10-2021 for Final year ECE students. The objective of this seminar is to know about project work. The Resource person was Er.R.Abhishek, our Alumna, CEO Founder, Chek In Tek Hardware Academy, Attoor. He shared his experience and motivated the students to do their project effectively. Students gained knowledge about how to do project.



Motivation Program “Design Thinking”

ELECTROS organized a motivation program titled “Design Thinking” on 26-10-2021 Final year ECE students. The objective of this program is to provide the direction for the students to reach their goals no matter how big or small they are, the way to measure their progress and the best way to plan for the future. The Resource person was Er.N.Rahul, Innovation Ambassador of IIC of Ministry of Education’s Innovation cell. He shared his experience and motivated the students to become successful in their life. 58 students actively participated in the program.



Seminar on “Machine Learning”

ELECTROS organized a Seminar on” Machine Learning on 04-12-2021 for Final year ECE students. The objective of this seminar is to know about the basics and importance of Machine Learning. The Resource person was Ms.Kayathri, Technical Trainer, Machine learning expert, Network Systems, Nagercoil. She explained the basics and applications of machine learning and motivated the students to do their project in this domain. Totally 29 students attended the seminar and they gained knowledge about Machine Learning which will be helpful for doing their project effectively.



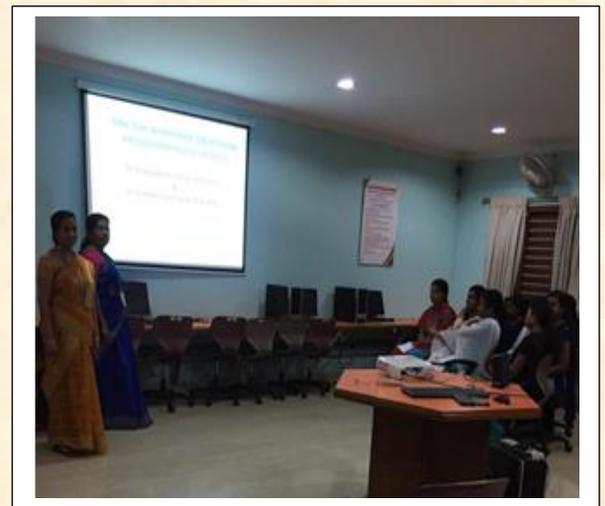
One day Workshop on “Machine Learning using Python”



ELECTROS organized a one-day workshop on” Machine Learning using Python”. It was conducted on 13-12-2021 for Final year ECE students. The objective of this seminar is to know about machine learning algorithms, their applications and to gain practical knowledge. The Resource person was Ms.Kayathri, Technical Trainer, Machine learning expert, Network Systems, Nagercoil. She was assisted by M.S.Ajeesh, Technical Trainer, Network Systems. Python IDE was installed and hands on training was given. Python program for speech recognition and controlling all activities, was explained and demo was given.

A one day workshop on “Python programming”

The department of ECE organized a workshop on “Python Programming” for the PG students(CS,ME) on 12/04/2022. The resource persons for this workshop were Dr.D.Jeraldin Auxillia/Professor and Dr.C.Helen Sulochana /Professor. This workshop was based upon hands-on approach. The topics covered are introduction to Python, various data types, conditional statements, functions, Python Libraries, Data handling and Visualization techniques. The takeaways from this workshop added immense value to the knowledge base for each of the participants



A one day workshop “VLSI programming”

The department of ECE organized a workshop on “VLSI Programming” for the PG students(CS,ME) on 20/04/2022. The resource persons for this workshop were Dr.T.Latha/Assoc.Professor and Dr.Y.R.Annie Bessant/Asst. Professor. This workshop was based upon hands-on approach. The topics covered are introduction to VHDL and Verilog, various data types, conditional statements, functions, and Synthesis and simulation techniques.



Value added courses

Class	Duration	Name of the course	Conducted by
II ECE (A & B)	23-02-2022 to 28-02-2022	Machine Learning using Python	Er.R.Abhishek, CEO Founder, Chek In Tek Hardware Academy, Attoor
III ECE (A & B)	11-05-2022 to 10-06-2022	VLSI SoC design using Verilog HDL	J.Prabhuprakash, Account Manager, Maven Silicon (Online mode)
IV ECE (A & B)	23-05-2022 to 27-05-2022	PLC and SCADA	Prolific Technologies Pvt. Ltd.,Chennai.

Industrial Visit and Educational Tour

Industrial Visit			
Sl.No.	Company name	Date of visit	Year of study
1.	IPRC, Mahendragiri.	4-3-2022	II ECE (A & B)
2.	Thermal Power station, Thoothukudi.	6-5-2022	
3.	BSNL Training centre, Chennai.	28-4-2022	III ECE (A & B)
4.	Prolific Pvt. Ltd., Chennai.	to	
5.	VI microsystems, Chennai.	29-4-2022	
Educational Tour			
1.	Kodaikanal, Munnar, Alapuzha and Cochin	25-4- 2022 to 29-4-2022	IV ECE A
2.	Ooty, Munnar and Cochin	03-05-2022 to 09-05-2022	IV ECE B

A National Level Technical Symposium “CRACKERJACK 2K22”



ELECTROS organized a National Level Technical Symposium titled “CRACKERJACK 2K22” on 20th May 2022. The inaugural ceremony of symposium started with the prayer song. Mrs.V.Femila Savio, Faculty Advisor welcomed the gathering. Rev. Fr. Dr. M. Maria William, Correspondent of the institution delivered the presidential address and Dr. J. Maheswaran, Principal felicitated. The Secretary Ms.Steni G. presented the annual report.

The Chief Guest Mr.S.Vijay Krishnan, Assistant General Manager/Divisional Engineer, BSNL, Tirunelveli was introduced by Mrs.M.Mary Helta Daisy, HOD, ECE Department. The Chief Guest addressed the gathering with his motivation speech. Then the Alumna Ms.M.Ivana Bhagya, Software Engineer, H & R block, Technopark, Trivandrum was introduced by the Executive member Mr. Shelif M.A. Then the Alumna addressed the gathering by sharing her experiences. The Joint Secretary Ms.Bhoomika R. delivered Vote of Thanks. The function came to an end with College Anthem.

After the function a Technical Talk session on “Ethical Hacking” was handled by the Chief Guest Mr. S. Vijay Krishnan, Assistant General Manager/Divisional Engineer, BSNL, Tirunelveli. The session was very informative, interactive and very interesting.



Different technical events like paper presentation, quiz, circuit debugging and idea presentation were conducted for our students and other college students, which provided a platform for students to showcase their talents. After that, prizes were distributed to all the winners by our HOD. Finally, the symposium ended with National Anthem.

Staff achievements

Sl.No	Staff Name	Award/ Recognition/Appreci ation	Sponsor	Int./Nat./Coll ege
1.	Dr. D. JERALDIN AUXILLIA	Primary evaluator, TOYCATHON 2021	Ministry of educations innovation cell, Govt. of I	National
2.	Dr. A. MILTON	Reviewer	CAAI Transaction on Intelligence Technology (IET)	International
3.	Dr. A. MILTON	Reviewer	IEEE Access	International
4.	Dr. A. MILTON	Chief Superintendent for Nov-Dec 2021 Examinations	Anna University and SXCCE	College
5.	Dr. A. MILTON	Reviewer	IEEE Transactions on Artificial Intelligence	International
6.	Dr. A. MILTON	Reviewer	IEEE Transactions on Artificial Intelligence	International
7.	Dr. A. MILTON	Reviewer	IEEE Transactions on Artificial Intelligence	International
8.	Dr. A. MILTON	Reviewer	Hindawi-Mathematical Problems in Engineering	International
9.	Dr. A. MILTON	Camp Officer for AU Central Valuation	AU Zone XVII	University
10.	Dr. D. JUDSON	Outstanding Contributor Award IET KKLN	IET KKLN	International
11.	S. CAROLINE	Reviewer	Journal of Scientific Computing	International
12.	S. CAROLINE	Reviewer	Journal of Scientific Computing	International
13.	S. CAROLINE	Clarivate Analytics Author Award	SXCCE	College

14.	S. CAROLINE	Guest Lecture	Francis Xavier Engineering College, Tirunelveli	College
15.	E. CHRISTO ELJIN RAJ	Expert	DMI College	National
16.	STARWIN.M	Clarivate Analytics Author Award	St.Xavier's Catholic College of Engineering	College

Students' Achievements

Sl. No.	Name of the student	Awards/ Recognition	State / College / National / International
1.	C.N.Sorna Meena & M.A.Shelif	"Best NSS volunteer award" in NSS awards distribution ceremony.	National
2.	Nivetha S.R.	"Performer of the Day" in LEO FEST'21 conducted by Bannari Amman Institute of Technology, Chennai.	State
3.	Nivetha S.R.	"Second prize" in the event "KARKAKASADARA" conducted by JIT IEEE WIE Affinity Group, Jeppiaar Institute of Technology, Chennai.	State
4.	Nivetha S.R.	"First prize" in "NEEGALAM AAGALAM RJ" , organized by IETE Student Forum, Jeppiaar Institute of Technology, Chennai.	State
5.	Nivetha S.R.	"First prize" in JAM on a National Level Technical Symposium, Jai Shriram Engineering College, Tirupur.	National
6.	Nivetha S.R.	"Third prize" in ShipWreck Competition in Vihaam'21 organised by KCG College of Technology, Chennai.	State
7.	Nivetha S.R.	"Third prize" in "LYRICOMANIA" , organized by IEEE Computer Society, Jeppiaar Institute of Technology, Chennai.	National
8.	Haritha H.K.	"First prize" in the photography event and "Second prize" in the Fasten the Tech event in "TECHNOVA 2022" conducted by Amrita College of Engineering & Technology, Nagercoil.	National

9.	Haritha H.K.	“Second prize” in the event circuit debugging in “CRACKERJACK 2K22” organized by ECE department of SXCCE.	National
10.	Jenet S., Jijisha Starlin S., Rahitha R. V., Reshma Xavier Roaster X.	“First prize” in the paper presentation contest in “CRACKERJACK 2K22” organized by ECE department of SXCCE.	National
11.	B.Gerald Bryolan	“Second prize” in Technical Quiz in “FALCONX ‘22” organized by Society of Electrical Engineers held at SXCCE.	National
10.	Shamila S.	“Second prize” in Elocution competition held on International Women’s Day celebration at SXCCE.	College
11.	M.Parikshith	“First prize” in the Puzzle event in “RONIX 2K22” conducted by Rohini College of Engineering & Technology, Kanyakumari.	National
12.	Steni G.	“Best Outgoing Student 2022” in the College Day celebration at SXCCE.	College
13	A.Abisha, D.A.Ashly, D.Danika, D.Dasmini	“Best Paper Award” in the paper presentation contest in “ICMCCT 2022” conducted by Annai Vailankanni College of Engineering, Pottalkulam.	College
14	C.K.Sherjin	“Gold Medal” , in Silambam Fighting game in the “3 rd Open National Championship-2022” conducted by All Sports and Games Federation of India.	State

Rank Holders

3 PG students received Gold Medal for April/May 2021 Examination.

		
RASIKA S	SIVA DHARSHINI S L	DELBIN ROSE T
M.E COMMUNICATION & NETWORKING	M.E MEDICAL ELECTRONICS	M.E COMMUNICATION SYSTEMS

Publications

1. **Dr.B.C.Preethi**, A.Abisha, D.A.Ashly, D.Danika, D.Dasmini, Land perforate rescue by animatronic projection, International Journal of Scientific Research in Science, Engineering and Technology, DOI:10.32628/IJSRSET22912136.
2. **Sheeja Herobin Rani** & R. Solomon Roach & T. S. Arun Samuel & S. Edwin Lawrence, Performance Analysis of Heterojunction and Hetero Dielectric Triple Material Double Gate TFET, Springer Nature B.V. 2021.J. Ancilin and **A. Milton**, Improved speech emotion recognition with Mel frequency magnitude coefficient, Applied Acoustics, Elsevier 2021, 179-108046 **SCI**.
3. V. Dyana Christilda and **A. Milton**, Speed, power and area efficient 2D FIR digital filter using Vedic multiplier with predictor and reusable logic Analog Integrated Circuits and Signal Processing, Springer 2021108, 2, 323-333 ,**SCI**
4. Manoj.B.C, **D.Jeraldin Auxillia**, RDAD: An Efficient Distributed Multi-Layered Resource Handler in Jungle Computing, Wireless Personal Communications, SPRINGER Nature 2021**SCI**
5. **S. Caroline**, M. Marsaline Beno, “A Grey Wolf Optimized 15-Level Inverter Design with Confined Switching Components” Intelligent Automation & Soft Computing, 2326- 005X, 1753-69.
6. Suja A.Alex, **B.Gerald Briyolan**, V.Godwin, Deep Learning Application in Leukemia Diagnosis, International Journal of Advanced Research in Science, Communication and Technology, Vol. 12, Issue 2, December 2021, DOI:10.48175/IJARSCT-2300.
7. J. Merin Joshiba, **D. Judson**, and A. Albert Raj,” 5G Modulation Techniques A Systematic Literature Survey” Lecture notes in Electrical Engineering, 2021
8. A.Albert Raj, **D.Judson**, A.Beno,” Efficient Construction of Successive Cancellation Decoding of Polar Codes using Logistic regression Algorithm”, Journal of Physics: Conference Series,2021.
9. **A.C.Jinisha**, **C. Helen Sulochana**,” Comprehensive Study of Underwater Image Enhancement Techniques”, International Journal of Scientific Research in Science and Technology, 2395- 6011 2021 Volume 9 –Issue.

Placed Students

			
ABIN D	A.ABISHA	ADDLIN JONY J	ADLIN RENIFA R
VI Micro System Pvt. Ltd., Schneider Electric	Rane Madras Limited	Byjus, Schneider Electric, Rane Madras Limited	Rane Madras Limited
			
AMRISH RAM S	AMRIT BELINDA	ANISH HARIHARAN	ANOOB S
Chain Sys, Webbearx	Cetas Information Pvt. Ltd.	Justdial, Byjus	TCS, Digital Logiciel Solutions Pvt. Ltd.
			
ARUL ANISHA M	D.A.ASHLY	BENINSON D	BERLIN NAYAGAM J S
HCL, Digital Logiciel Solutions Pvt. Ltd.	Rane Madras limited	TCS, ATOS, Schneider Electric	ATOS
			

BHOOMIKA R	CLOUDIA D	DANIKA D	DASMINI D
Schneider Electric	Maxerience	Rane Madras limited	ATOS
			
DAVID LIVINGSTON W I	DELSIN SUFFRINA	DIVISHA S P	EARNEST ABRAHAM Y
TCS, Soft Square, Wipro, Tech Mahindra, Flow Global Technologies	Webbearx, VI Micro System Pvt. Ltd.	Schneider Electric Pvt Ltd.	ATOS, Jasmine Infotec.
			
EVANGELIN SNEHA MICHAEL	FAREEHA Y	GRACIA BEAULA B	GRASHIN AKASH G
Digital Solutions, Maxerience	ATOS, Flow Global Technologies, Capgemini	Schneider Electric	Schneider Electric
			
IRFANA FATHIMA	JAKCIN MANOJ J	KISHORE G	JAMES AROCKIA RAJ G
Soft Square, Wipro, Capgemini, Capestart	Mafiree Limited, Schneider Electric	ATOS, Tmire Makerspace	ATOS, Digital Logiciel Solutions Pvt. Ltd.

			
JEFFRIN J P	JENITA DANIEL	JENSHA J	JESMI SHOBIKHA C
Digital Logiciel Solutions Pvt. Ltd.	Scheider Electric	Scheider Electric	Althi Solutions, Resbee Technologies
			
JISILY JOY J V	LEKSHMI NAIR K S	LIBINSHA E	LINDSAY STEFFINE C M
Schneider Electric	TCS, H&R Block, Hexaware, Tech Mahindra	Rane	Schneider Electric, Resbee Technologies
			
MANO VIJAY C R	MOHAMED SHAFWAN	NIMI JUSTUS	NISHANTH R M
Rajsriya Automotive Pvt Ltd	Infosys, TCS, Atos, Justdial	Schneider Electric	Digital Logiciel Solutions Pvt. Ltd.
			
NIVETHA S R	PREETHY M A	RAMKI R	RONICA R

Infosys, CSS CORP, ATOS, Digital Logiciel Solutions Pvt. Ltd.	Resbee Technologies, Rajsriya Automotive Pvt Ltd	Justdial, VI Micro System Pvt. Ltd., PIT Solutions	Rajsriya Automotive Pvt.Limited
			
RUBY BEAULA M	SABARI PRABHU M	SAJITH K U	SARAN A G
ATOS	Just dial	Justdial	VI Micro System Pvt. Ltd.
			
SHAKTHI VANUJA VALLI V	SHAMILA S	SHELIF M A	SHERIN S P
ATOS	Capgemini, Global Software Solutions, PIT Solutions, Tmire Makerspace	Justdial	Schneider Electric India Pvt.Ltd
			
SHINUBA A	SORNA MEENA	STENI G	SURENDER T S
Rane	CETAS Information Pvt. Ltd.	CSS CORP, Capgemini, Data Patterns	Justdial



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Kanyakumari District, Tamil Nadu, India.
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