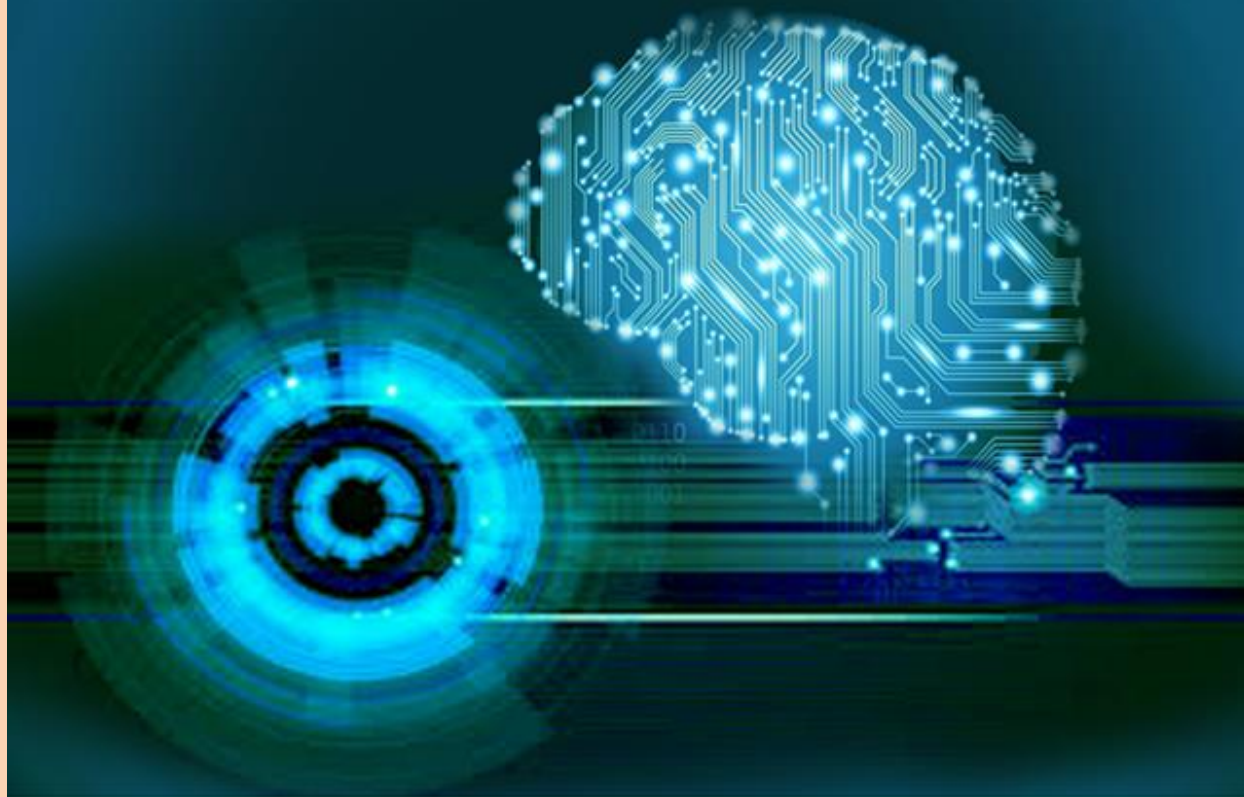2017-2018 ODD

The Pulse

Newsletter

Department of
Electronics and Communication Engineering

St.Xavier's Catholic College of Engineering
Chunkankadai, Nagercoil-629 003

NAAC Accredited with 'A' Grade

Events-Workshops organized :

The ELECTROS association started its academic program for the academic year 2017-2018 by conducting a one day workshop on 4G/5G MIMO wireless communication on 7th July 2017. Dr.Vidhyacharan Bhaskar, Professor, San Francisco state university, USA was the resource person for this workshop. He delivered the importance of the latest techniques and technologies in 4G and 5G for increasing the data rate, speed, throughput and capacity of the wireless networks in mobile communication.

The inaugural function of ELECTROS was organized by the department of Electronics & Communication Engineering on 29thAugust 2017.

A technical talk on "Introduction to Deep learning and its Application" was conducted by Dr. Deepak Mishra, Department of AVIONICS, IISST, Trivandrum on 29-08-2017. He explained the importance of artificial intelligence in speech and image processing. He also explained the various techniques and research issues related in enhancing the image quality and speech signal.

Motivation program for Final year Students

Parents Teachers Interaction (PTI) Meeting

PTI Meeting - 09-09-2017

Publications

1. Sahaya Stalin Jose. G, Seldev Christopher. C ,Secure cloud data storage approach in e-learning systems ,Cluster Computing ,Springer ,2018,1386-7857 , ,DOI 10.1007/s10586-018-1785-z .

2. Y.R. Annie bessant and T. Latha "Analysis of area and delay for floating point matrix multiplication" Journal of Computational and Theoretical Nano science, Vol. 15, no.2, pp. 621-626, 2018

3. Judson, D, Bhaskar, V, Error Rate Analysis of SIMO-CDMA with Complementary Codes Under Multipath Fading channels", Springer- Wireless Personal Communication, Aug 2017, doi.org/10.1007/s11277-017-4938-0.

4. S. Absa, Dr. Shajulin Benedict, Anto Kumar R.P., Monitoring IaaS using various Cloud Monitors, Cluster Computing, Springer, 2018, Cluster Computing DOI 10.1007/s10586-017-1657-y.

5. Y R Annie Bessant, Analysis of Area and Delay For Floating Point Matrix Multiplication Journal Of Computational And Theoretical Nano Science, American Scientific Publishers, 2018, 1546-1955, 15-2-621-626 ,10.1166/Jctn.2018.7136.

6. Y. Mary Reeja and T. Latha ,Position Intensity Histogram Of Oriented Gradients Features Based Particle Filet For Detection And Tracking Of Moving Vehicles, Journal of computational and theoretical nanoscience ,American scientific publishers ,2018,1546-1963 15-1-222-229 ,10.1166/jctn.2018.7076 ,Google Scholar ,

Student Activities and Achievements

S.NO	STUDENT NAME	AWARD/RECOGNITION	AWARD State/College/ National/ International
1.	Ms. Ankayarkanni R	IEEE- Student Project Fund 2017-18, Smart Water Management System.	International
2.	Mr. Dan Francis R	First Prize- District Level Inter College Quiz, Nesamony Memorial Christian College, Marthandam.	District
3.	Mr. Dan Francis R	First Prize- District Level Inter College Quiz, Scott Christian College, Nagercoil.	District
4.	Ms. Aswini M. S	First Prize- Western Dance, State Level Inter Collegiate Culture Fest, Rohini College of Engineering and Technology.	State
5.	Ms. Freena K	Second Prize- Group Dance Western, MARFESTA'2018, Marephraem College of Engineering and Technology.	District
6.	Ms. Saranya V Kishore	First Prize- Solo Song, Kala Srishti, SreeAyyappa College for Women	District

Mini Projects -Prizes

Sl.No	Mini project Title	Student Name	Prize
1.	Voice Controlled Automation	Abhishek R. Ajith Jerin V. Chockalinga Subash A. V. Dan Francis R. Dev Nobil G.M.	I
2.	Cellphone Detector Circuit	Akshaya Dev D.M. Akshaya M.R. Angelin Kiruba A. Iswarya G. Jency J.	II

Indusrial Visits

Name of the Organization	Date of the Visit
ISRO, Mahendragiri.	19-12-2017
KINFRA High-Tech Park, Kochi.	24-08-2017
Unitek Power Solutions India Ltd., Kerala.	24-08-2017
Central Marine Fisheries Research Institute (CMFRI), Kerala.	24-08-2017
All India Radio, Kerala.	23-08-2017
KSEDC Ltd. (Keltron), Kerala.	23-08-2017

Extension of Lab Facilities- Embedded Lab

Patents filed by faculty members

Sl.No	Name of the Faculty	National/ International	Patent Name	Patent Filing Date
1.	E. Christo Elgin Raj	National	Giant Wheel Turbine	13-06-2018
2.	E. Christo Elgin Raj	National	Smart OHPS	10-11-2017

Vision of the Department

To develop Electronics and Communication Engineers with ethical Competence and international outlook to serve society

Mission of the Department

- *Motivate the graduates to achieve academic and career targets while stressing lifelong learning.*
- *Provide education to compete with confidence in the national and international arena.*
- *Train the graduates to involve in research and development.*
- *Develop among the graduates a sense of innovation and inspire them to transform knowledge and technologies for the benefit of the society.*

Program Educational Objectives (PEOs)

- *To develop electronics and communication engineers who can transform the attained knowledge for creativity and innovation in a wide spectrum of technologies.*
- *To develop engineers who will work with high ethical values and societal responsibility to effect changes globally.*
- *To develop graduates who are committed to lifelong learning and research.*
- *To produce graduates with good team spirit and leadership skills.*
- *To bring out graduates who would later become entrepreneurs.*