ELECTRIC FLASH

VOL 4 Issue 4 -OCTOBER -DECEMBER 2019

Vision of ECE Department

To produce skilled, socially –sensitized and globally competitive professional engineering graduates in the area of Electronics and Communication Engineering.

Mission of ECE Department

1. To provide quality and contemporary education through innovative teaching-learning process and effective resource utilization.
2. To develop responsive and socially sensitive engineers through research oriented practices.
3. To promote industrial collaboration for providing practical exposure leading to industry ready engineering graduates.
4. To open new vistas of learning for students through international collaborations.
5. To provide a conducive environment through pre placement training and professional development activities for providing ample opportunities of placements, higher studies and entrepreneurship.

Workshop On Drone Technology

This is to inform you that the Electronics Project Club of ECE Department is organizing a two days workshop on “Drone Technology” on 3rd October**, 2019 and 4th October 2019** from 9**:15 am to 4:35pm** in Machine Vision Lab, Block 1, CEC Landran for ECE/ME students. About 75 students of ECE and ME attended this workshop. The vision behind organizing this workshop is to groom the industry based skills of the students and to enhance their technical skills in the field of drone. We have invited industry experts from Fly-X, who have already run different “on campus Training” at many colleges and having experience in handling the projects of various Departments of industries.

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Recent trends 2D-ELECTRONIC

Interest in the field started with the discovery of graphene, a structural variant of carbon. Carbon atoms in graphene form a hexagonal two-dimensional lattice, and this atom-thick layer has attracted attention due to its high electrical and thermal conductivity, mechanical flexibility and very high tensile strength. Graphene is the strongest material ever tested. In 2010, the Royal Swedish Academy of Sciences decided to award the Nobel Prize in Physics to Andre Geim and Konstantin Novoselov for their “groundbreaking experiments” in graphene research. Graphene may have started this 2D revolution in electronics, but silicene, phosphorene and stanene, atom-thick allotropes of silicon, phosphorus and tin, respectively, have a similar honeycomb structure with different properties, resulting in different applications. All four have the potential to change electronics as we know it, allowing for miniaturization, higher performance and cost reduction. Several companies around the globe, including Samsung and Apple, are developing applications based on graphene.

Entrepreneurship Awareness Camp (EAC)

IEDC cell of CEC, Landran has organized an Entrepreneurship Awareness Camp (EAC) from 15-17 Oct at seminar hall of Block-1.Objective: The objective of the camp is to create awareness among S&T students to opt Entrepreneurship as a career. Description of Camp: The program consists of 12 sessions of one hour each. In the program students learnt how to open a new Enterprise (Business), to arrange funds, to market the product and students got a chance to interact with entrepreneurs through an Industrial visit. After the completion of camp certificate of participation has been issued to the participants. **Sponsorship:** EDII, Gandhinagar and NSTEDB under DST-NIMAT project.

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PARIVARTAN 2K19

- ECE Department donate charity fund To Gaushala On PARIVARTAN 2K19.
- Deaf and Dumb hearing aid were distributed for privileged Children.

PATENTS FROM ECE DEPARTMENT

- SOUND ENERGY CONVERSION DEVICE”
- METHOD FOR PROVIDING SECURITY IN LOCKING UNITS
- INTELLIGENT LIFE JACKET DEVICE
- SECURED PAYMENT SYSTEM AND METHOD
- VEHICLE OVERTAKING SYSTEM
- SURVEILLANCE SYSTEM
- INTELLIGENT EYEWEAR DEVICE

PATENTS UNDER Request For Examination (REF)

- SMART SWITCH HAVING A TIME SELECTOR SWITCH WITH UNIVERSAL SERIAL BUS PORTS
- THERMOELECTRIC GENERATOR USING PELTIER PLATE
- RU-VAN GUARD MOSQUITO REPELLENT
- UNFOLDING MECHANISM FOR LARGE WINGS
- CANSAT CONTAINING CONTAINER AND GLIDER FOR MEASURING ATMOSPHERIC CONDITIONS.

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EXPERT TALK ON "INDUSTRIAL AUTOMATION"

An Expert talk was arranged for B.Tech. 3rd Semester students of CD & EF Sections and of ECE Department in ECE Block of CEC Landran from 12:00 pm onwards. The Guest Lecture was delivered by Er. Shubham Sharma & his team of Delbrec Solutions private Limited, Mohali. About the Lecture: The lecture was on PLC Scada & automation design along with Internet of Things. The Speaker, Mr. Shubham explained the role of Programmable Logic controller and Plc Program Initializing in detail. He covered Analog & digital i/p – o/p Interface along with all Communication Methods. During the lecture he focused on Industrial Projects design and how we can make use of PLC Wiring using the industrial based methods. He demonstrated the PLC Board and explained how programming can be done using SCADA. He also demonstrated the interfacing of PLC & SCADA and briefed how we can control industrial appliances using the internet of things. The applications of IOT in current industries and how they can ease the various industrial problems were also discussed in detail.

The lecture was very interactive and all students took part in the live programming & interfacing session in the kit. Summarized Report after feedback of Expert Lecture: -

- The students reported that they learnt a lot from this lecture.
- Students were delighted after listening to the speaker. All were satisfied from the talk.

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RESEARCH PUBLICATIONS

- "Comparative Analysis of Energy Efficient Routing Protocols Using GA and HAS" **under** "CGC International Journal of Contemporary Technology & Research" on OCTOBER 2019.

DEPARTMENT TOPPERS

- In 3rd semester,"Deepanshu Naran (1802328)" achieved 9.09 SGPA.
- In 5th Semester, "Huma Guhar (1703019)" achieved 9.7 SGPA.
- In 7th Semester, "Aditya Arora (1602625)" achieved 8.68 SGPA.

FACULTY ACHIEVMENT

Paper written by Dr. Dinesh Arora, Professor in ECE Department with title Fuzzification based extravehicular published in Scopus index general and also presented in IEEE conference. He has published more than four papers in Scopus index general this year; also approximately sixteen papers are published by faculty in Scopus index general.

MESSAGE BY EDITOR

Usually we fail to appreciate the good deeds of many people and activities that happen around us as we

are engaged in irrelevant talks and assumptions. It could all change if we just pause to think of what is our contribution to the society from which we have been gifted with this blessed life. The progress of society mainly depends on many people who are working behind the scenes, overtime round the clock planning things to the smallest. This newsletter will be a medium to provide proper acknowledgement and respect all of these efforts and its results.

Sincerely
Chanpreet kaur

Chief Editor: Ms. Chanpreet Kaur
Editor: Ms. Anjana Sharma
Student Editior : Nitesh,Bhawani