



ELECTRIC FLASH

VOL 4 Issue 3 –JULY-SEPTEMBER 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 engineer 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 conducive environment through pre placement training and professional development activities for providing ample opportunities of placements, higher studies and entrepreneurship.

International Conference on Communication Computing and Sciences

Two days International conference on “Innovations in Communication, Computing and Sciences (ICCS-2019)” and “Contemporary



Advances in Mechanical Engineering (ICCAME-2019)” was organized by Department of ECE and ME respectively on 26th and 27th July, 2019. The main objective of the conference was to create awareness among students/researchers and discuss about the current advances in the broad domain of Engineering. This conference witnessed significant participation from academicians, researchers as well as experts from industry. A total of 300+ papers for ECE and 138 manuscripts for ME from international and national researchers from reputed institutes like NITs, NITTTR, Amity University, Galgotia University, Chitkara University, Jaypee University, VTU RRC, Research Scholar, Belgaum, Thapar University, MM University, Mulana, Chandigarh University, Guru Nanak Dev Engineering College Ludhiana, DCRUST Murthal, Jagannath University, G.B Pant College Delhi, MAIT Delhi, GH Bombay, IP University Delhi, MIE Australia, CCE New Zealand, University of Johannesburg South Africa, IITs, Panjab University, PEC Chandigarh, affiliated colleges of IKGPTU, etc. were received. These manuscripts were rigorously peer reviewed and finally 175 papers from ECE and 110 papers have been selected.

“Failure will never overtake me, if my determination to succeed is strong enough”



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NITTTR Sponsored Short Term Course (STC)

NITTTR Sponsored Short Term Course (STC) On “Research Oriented Project Work” through ICT NITTTR Sponsored Short Term Course (STC) On 05th Aug. 2019 to 9th Aug, 2019 in Machine vision lab (3rd floor of Block 1). N “Research Oriented Project Work” through ICT SPEC, IMCO and NITTTR Chandigarh imparted knowledge on topics like Networking with Industry, Research Funding, Industry Expectations, Project Based Learning and different

Case studies in the field of Electronics and Civil engineering here The Total No of Participants were 40 Faculty Members



Expert Talk By Dr. Dattatraya Vhatkar

Electronics Project Club of Electronics & Communication Engineering Department organized an Expert Talk on “Sensors, amplifying circuit and instrumentation in agriculture” by Dr. Dattatraya Vhatkar, Sr. Principal Scientist at CSIR-CSIO on 18th September, 2019 from 10:30 am to 12:00pm in Seminar Hall, Block 1 for 3rd semester students. About 82 students participated in this expert lecture. The vision behind

organizing this expert talk is to re-energize the students towards the latest farming technologies nowadays and how sensors, amplifying circuits and instrumentation are used in agriculture. Expert is already working in different agriculture related projects that utilizes Sensors, amplifying circuit and instrumentation.



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INTER INSTITUTE PARTICIPATION

- Saksahm Koul, Shubhender have participated in ENGINEER'S DAY(Quizo Puzzle) held at **CGCTC Jhanjeri.**
- Prince Kumar participated in ENGINEER'S DAY(Hacker Stack 1.0) which was held at **CGCTC Jhanjeri** & achieved 3rd position.
- Prince Kumar participated in ENGINEER'S DAY(Hackathon) held at **CGC Jhanjeri.**
- Nipun Sharma, Nishant Raizada, Nikhil Kumar have participated in Innovation Challenge Design Contest held at **Texas Instruments, Bangalore.**
- Bharat Duhan, Prince Kumar have participated in Innovation Challenge Design Contest held at **Texas Instruments, Bangalore.**

RECENT TRENDS cyber Security

Cyber security is the protection of internet-connected systems, including hardware, software and data, from cyber attacks. In a computing context, security comprises cyber security and physical security -- both are used by enterprises to protect against unauthorized access to data centres and other computerized systems. The goal of cyber security is to limit risk and protect IT assets from



attackers with malicious intent. Information security, which is designed to maintain the confidentiality, integrity of Cyber security best practices can, and should, be implemented by large and small organizations, employees and individuals. One of the most problematic elements of cyber security is the continually evolving nature of security risks and advanced persistent threats and availability of data, is a subset of cyber security.

Book by Dr. Harbinder singh on “Pencil Drawing of Microscopic Images Through Edge Preserving Filtering” has been published by SPRINGER, on July 2019.



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RESEARCH PUBLICATIONS

- By Dr. Vinay Bhatia on VANET and FANET under the impact of security technique, under conference of International journal of innovating technology and exploring Engineering
- Dr. Mohit srivatva on Simulation and analysis of telescopic Photonic beam combiner for steller for interferometry in labview
- By Dr. Harpal Singh on Resistivity based low cost mastitis level detection system and Performance analysis of functional Redundant wavelet transform for watermarking scheme
- By Dr. Rinkesh Mittal on Optical communication with WDM based FSO over varying weather conditions and Performance improvement of DVFS based 16 bit SAR ADC
- By Dr. Pooja Sahni on Energy aware nature inspired algorithm for better energy utilization for wireless sensor network
- By Dr. Sukhdeep Kaur on Design and optimization of microstrip patch antennas using artificial neural networks.

PATENTS FROM ECE DEPARTMENT

- BRAIN WAVE CONTROLLED BIONIC ARM SYSTEM
- FARM MANAGEMENT SYSTEM
- ELECTRICITY GENERATING DEVICE
- SECURITY CHECK SYSTEM
- USER AUTHORIZATION SYSTEM AND METHOD

MESSAGE BY HOD

Students should always think and review – discover the cause and effect of every event, in which they are involved. Do not surrender or become a slave to youthful fancies and indulgences. Be steady in your studies. Learn to enjoy hard work – particularly your studies. Think wisely, think systematically. Always prepare yourself for next day's lesson. Be very serious and attentive in class. Hard work, dedication and perseverance are the most important traits in a person that lead to success. The future belongs to you; your need, therefore, is to prepare yourself for an active participation in the world. This participation demands



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that you become well informed and hence develop yourself like a pioneer and ultimately grow as responsible men and women.

Dr. Vinay Bhatia

HOD ECE

MESSAGE BY STUDENT EDITOR

It is a great privilege for me that I am giving my contribution to the newsletters of our department. I hope that new letters will definitely help in showcasing the activities that are happening in our department.

Nitesh(1703080)

6th Semester

Editor Chief: Ms. Chanpreet Kaur

Editor: Ms. Anjana Sharma

Student Editor: Nitesh, Bhawani