



ELECTRIC FLASH

VOLUME -3, ISSUE-1, JANUARY– MARCH 2018

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.

AN INDUSTRIAL VISIT TO SCIENCE CITY

An Industrial Visit was organized for B.Tech 4th & 6th semester students at Pushpa Gujral Science City, Kapurthala. This Science City was a blend of education, curiosity and fun for the students. The students visited several galleries namely Amazing Living Machine, Science of Sports, Virtual Reality and CyberSpace, Earthquake Simulator, convention hall and Dinosaurs park to present memorable, entertaining, knowledge-based and excitable experience & interest in science through open-ended exploration away from text books and black boards, with a scientific approach to problem.



RESEARCH Publications

- Publications By Dr. Parveen Singla on review on new energy efficient cluster based protocol for wireless sensor network Under conference IRJET.
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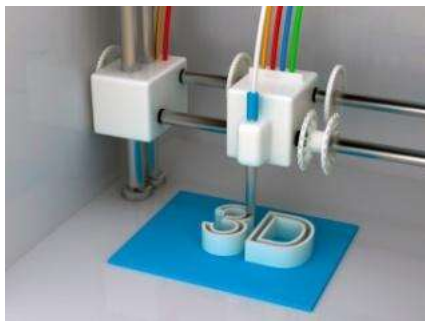
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- Publication Is Done By Bhawna Tondra on “sliding mode control with non linear disturbance observer based on genetic algorithm for inverted pendulum with mismatched disturbance” under “IJST” On JANUARY 2018.



AN INDUSTRIAL VISIT TO BASE TRANS-RECEIVER SYSTEM (BTS) UIET CHANDIGARH

An Industrial Visit was organized for B.Tech 4th semester IJ students at Base Trans-receiver System (BTS) UIET Chandigarh. A base transceiver station (BTS) is a piece of equipment that facilitates wireless communication between user equipment (UE) and a network. UEs are devices like mobile phones (handsets), WLL phones, computers with wireless Internet connectivity. The network can be that of any of the wireless communication technologies like GSM, CDMA, wireless local loop, Wi-Fi, WiMAX or other wide area network (WAN) technology. Students have learned about the different components e.g. Transceiver, power amplifiers, combiner/mux, duplexer, antenna, alarm, control function, base receiver unit, switching and optical fibre links etc.



RECENT TRENDS 3D printing

3D printing is an innovative technology that lets you create a physical object from a digital model. It started in the '80s under the name 'rapid prototyping' because this was the purpose of the technology: prototype



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changed since then, and today 3D printers offer amazing results and let you create anything you can imagine. 3D printing has the potential to bring more efficiency and sustainability in the manufacturing industry. 3D printing can improve major industries such as construction and healthcare for the better. According to PwC, manufacturers of different industries have already started integrating 3D printed parts and products which are quickly becoming end products. It is likely that more companies will implement 3D printing as adopting the technology becomes easier and cost-effective. 3D printing is also called additive manufacturing, because unlike the traditional subtractive manufacturing, 3D printing doesn't remove material, it adds it, layer after layer. In order to print something, first you'll need a 3D model of the object you want to create, which you can design in a 3D modeling program (CAD - Computer Aided Design), or use a 3D scanner to scan the object you want to print. 3D printing enables us to easily manufacture complex objects from the comfort of our own homes. Unlike the behemoth machines installed in factories, modern desktop 3D printers are **small** (they're "desktop" for a reason), **cheap** (you can get the cheapest ones for \$100; less than the cost of a smartphone), and **easy enough** to install to operate.

faster and cheaper. A lot's

STUDENTS ACHIEVEMENT

- Umashankar Agarwal participated in Advitya 2018 – Young Scientist at IIT Ropar.
- Sushil participated in Ethical Hacking at Chandigarh University, Gharuan.
- Lalit kumar, Shanky Grover, Naveen Kalsi, Shubham Rohilaa, Harmanpreet Singh, Vibhi Pupreja, Diwakar Singh, Sanket Sharma secured 3rd rank in PDR and 2nd rank in second phase at Tarleton State University.
- Hardiq Verma, Ravi Kant, Amanjot Singh, Chetan Chadha, himanshu, Aayushi, Anmol, Tanvi Gupta secured 9th rank in PDR and 5th rank in second phase i.e. CDR in CANSAT-2018 at Tarleton State University, Texas.



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RADIO DAY CELEBRATION

Electronics Project Club of CGC, Landran celebrated **WORLD RADIO DAY** with very high zeal and enthusiasm on Tuesday Feb 13, 2018. This event was a mixture of interesting and entertaining technical, non-technical and cultural events. The technical events includes Dirt Robo Race, Line Follower, Technical quiz, IETE Quiz, Rocket propulsion, Circuit designing, Programmers at war, Robo soccer, Lan/Mobile Gaming. The non- technical events includes Online dubsplash video, Photography, Debate, Movie Quiz, Group discussion, Extempore, recycler. The programme was inaugurated by Director Admin. Er. A. C. Sharma, Director Principal Dr. B. Pattnaik, DSW Sh. Rajesh Hooda This radio day was Powered by Red FM with live performance of RJ Abhimanyu and RJ Om. There were many technical and non technical events. The importance of radio in our life was explained through various events.

PATENTS FILED BY ECE Department

- RAILWAY COACH SYSTEM
- Portable Fertilizer Dispensing Tool
- Low Floor Double Decker Rail Wagon
- Electro Tiles



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Chief Editor Message



The editorial board is Glad to release the current issue of ELECTRIC FLASH, January 2018. The contribution and dedication of faculty members, students and non teaching staff of ECE department is continuously helping us in stepwise manner for achieving new milestone.

Chief Editor

Anjana Sharma

Chief Editor : Ms. Chanpreet Kaur

Editor : Ms. Anjana Sharma

Student Editor :Nitesh

Bhawani Magotra