



AHEAD. FOR LIFE.

Newsletter

Volume 1: Issue 1

School of Engineering and Technology

# Abhiyantriki

Sound Quality. Sound Engineering.



**ansal University Gurgaon**  
in association with  
**BeGenesis**  
**ROBOTRONIX**  
ROBOTRONIX ENGINEERING TECH PVT. LTD.

**Presents WORKSHOP ON Embedded System & Robotics**

Date: 23<sup>rd</sup> August 2018  
Venue: D322, SET, Ansal University, Gurgaon

For More Info Contact  
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Faculty Coordinator  
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**ansal University** AHEAD. FOR LIFE. **UWE Bristol**

SCHOOL OF ENGINEERING AND TECHNOLOGY

FREE-OF-COST

WORKSHOP ON HOME AUTOMATION SYSTEMS WITH ARDUINO

20TH JULY 2018 | 10:00 AM ONWARDS

**FUTUREWIZ**  
Gateway to VLSI Industry

WEBINAR

ABOUT WEBINAR	WHO SHOULD ATTEND	WHY SHOULD YOU ATTEND	ABOUT SPEAKER
Do you have inclination towards VLSI sector, but don't know where to begin.  Then, this webinar can give you a direction in life. It will help you kickstart your entry into this niche sector which, only people with hands on knowledge and interest in electronics can go along.	<ul style="list-style-type: none"> <li>For EC/EEE pursuing engineers.</li> <li>For people with interest in VLSI/ semiconductor industry.</li> <li>For mentors and teachers of EC/EEE.</li> </ul>	<ul style="list-style-type: none"> <li>Get introduced to HDL and FVLS.</li> <li>Current and future trends in VLSI industry.</li> <li>How it is different from other industry.</li> <li>Get to know the future aspects in VLSI industry.</li> <li>Job opportunities available in near future how to prepare journal for one.</li> </ul>	<p><b>Manish Singhal</b> <i>(Principal Engineer at Truechip Systems)</i></p> <p>Manish Singhal is a VLSI professional with more than 15+ years of experience in ASIC Design with primary focus on Functional Verification using UVM, System Verilog.</p> <p>Manish has worked on SOC System on Chip Verification, IP Verification and Verification IP development. Prior to Truechip Manish worked for Motorola/Freescale, Elta, NCC &amp; KVI.</p>

Free of Cost

Futurewiz in association with Truechip is conducting a Live Webinar

**"There is a lot more to Moore's Law.."**

Date: 21 August  
Time: 11:00 AM  
Duration: 90 Min.  
Venue: D301, Ansal University

# NEWS - EVENTS - TIE UPS

## AI AND DEEP LEARNING SKILLING AND RESEARCH

**Royal Academy of Engineering, UK** under Newton Bhabha Fund has approved a nation wide initiative on "AI and deep learning Skilling and Research". University college, London, Brunel University, London and Bennett University, India are collaborators of the project. Ansal University is a zonal leader with Bennett University in this projects and is committed to train manpower in deep learning and AI through this initiative. During initial phase, 5 faculty members of SET have undergone a training in deep learning using python.

## UNIVERSITY OF WEST ENGLAND, BRISTOL

University has Memorandum of Understanding (MoU) with UWE which will facilitate faculty and student exchange, research collaboration, awarding degrees, educational tours.

## WORKSHOP ON ANIMATION CONDUCTED



The School of Engineering and Technology conducted a workshop on "Animations" on June 28, 2018. The main aim of the workshop was to provide an introduction to animation using Scratch. During the first session, the participants were made aware of the scratch editor and its community. The second session included hands-on training on Scratch where students learned to program on the editor. In the end, the participants made interactive animations and presented their ideas. Best out of these ideas were given a small token of appreciation by Dr. R.N. Malviya. The workshop was conducted by Dr. Rewa Sharma and Dr. Latika. Participants thoroughly enjoyed the session and showed interest in the field of Animation.

## HOME AUTOMATION SYSTEM USING ARDUINO

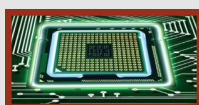


A technical workshop on "Home Automation Systems using Arduino" was organized on July 20, 2018. It covered the microcontroller boards and the concepts of programming in Arduino. During the hands-on-session arranged, students practiced with various Sensors including LDR, PIR Sensors, Ultrasonic Sensors, Mercury Tilt Sensors etc. In total, ten modules with different sensors experimented. Students enjoyed the session a lot. In the last, a quiz was conducted and Ms. Amrita Preetam adjudged "Best Per former".

## WORKSHOP ON VLSI DESIGN



School of Engineering and Technology, Ansal University organized a "VLSI Design" hands on session cum workshop on August 8, 2018. It was conducted in association with Truechip Solutions, a leading industry in chip designing domain. The session was conducted by Mr Abhishek Pratap Singh, working as a Senior Design Engineer with Truechip Solutions for the last 5 years. The students felt very motivated learning about the scope and exposure of core electronics in the industrial domain. The speaker started with the basic concepts of Verilog and moved to creating a new module, synthesizing it, translating it and finally verifying the same on FPGA board. The students were very excited to be able to relate the classroom concepts with the real time industry problems.



Welcome to **School of Engineering and Technology Newsletter, Ansal University**. We at, SET deliver the highest quality engineering education, through teaching and research excellence, state-of-the-art educational environment and innovative programs, to provide our engineering graduates with the knowledge and skills needed to succeed and become leaders of tomorrow. Through the unique approach to technology-enriched learning, SET produces graduates prepared to thrive and excel in the evolving 21st-century workplace, and ready to make significant contributions to society. The programs offered are high-quality programs in engineering that are market- and career-oriented, that prepare professionally competent and broadly educated students capable of addressing the demands of the new millennium, and that instil life-long learning abilities. Promote a vibrant and fulfilling student experience and foster student success through a student-centred focus that provides necessary supports.

Our faculty members foster a collegial, respectful and productive environment that attracts and retains the best faculty, staff and students, and creates a sense of spirit and loyalty. Students also have many leadership opportunities through their participation in student clubs and organizations. Within this newsletter we will be providing you with a snapshot of the workshops the achievements, activities, collaborations and publications and an overview of how our faculty and students continue to push the boundaries of thinking and learning. Faculty members at SET mentor and collaborate with students in the classroom, in the lab and in the field, providing them with valuable experience. value-added activities that serve and address the needs of industry and the engineering profession, and advance and improve the economic, environmental and social welfare of the region and country.

**Pramneet Kaur**  
- Editorial Team

## WORKSHOP ON EMBEDDED SYSTEMS AND ROBOTICS



One-day workshop on Embedded System and Robotics was organized in association with BeGenesis ROBOTRONiX on 23.8.2018 for all batches of ECE, EEE, and CSE final year students. It was coordinated by Dr. Arti Vaish, Program Director (ECE) and her team.

The Workshop addressed various concepts related to engineering principles and real-life applications and the integration of different components. Students were engaged in designing and building a robot using BeGenesis ROBOTRONiX educational kit, starting from simple and leading to complex robotics.



## WORKSHOP ON ROBOTICS



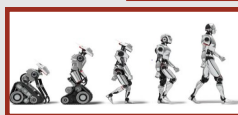
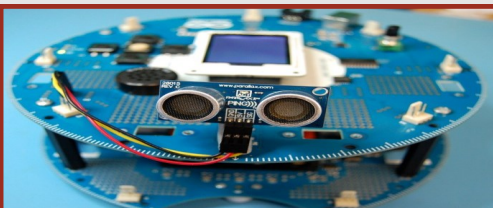
Dr. Neha Gupta Conducted a workshop on "Robotics" on June 23, 2018. The main aim of the workshop was to provide introduction to robotics and its application areas. During the first session, the participants were made aware of the ongoing advanced applications of the Robotics and how this area is changing our lives. Fundamental units of a Robot were also discussed during this session. The second session included hands on training on Arduino where students learned to programme on Arduino. Sensor interfacing was also done during this exercise.

## INTERACTIVE SESSION OF FEMALE STAKEHOLDERS



Ansal University, organized an interactive session of its female stakeholders with Mrs. Raj Bala, SHO women police station of sector 51, on 9th August 2018. She was accompanied with Mrs. Suman, SI and the complete Durga Shakti Team of women police. Durga Shakti app of Haryana Police based

on Android platform was downloaded by all the participants on their mobiles. This mobile app enables women to seek immediate help of the police. The App works on the click of buttons, where the GPS location is sent to the police control room and immediate help from the nearest police station is dispatched to the victim's location.



# CAMPUS FIZZ



## B.TECH INDUCTION PROGRAM



### Induction Program #DAY1



A 5 days long pre-orientation induction program specially designed for the fresh batch of 2018-2019 started on 1st August'18. This program is full of Talk Shows, Cultural Activities, Sports, Industry Expert Talk, Motivational Sessions, Movie Screening & many other fun-filled extra-curricular activities strategically spread across selected days in the month of August. The program has been designed in a way to help students in smooth transition from School to University life. The Day1 program was inaugurated by the welcome message from the former Dean SET, Dr. Brijesh Kumar. The second session was conducted by Mr. Rajan Bansal who familiarized the students with various

workshops, industrial visits & seminars related activities which are conducted on regular basis by SET for their students. He informed students about various training & placement facilities, employment opportunities & potential industrial organizations where the students will get job opportunities in their final years of B.Tech, through the campus placements by CRC.

### Induction Program #DAY2



A poster making competition for fresh students of SET was organized on the second day of induction program (3rd Aug'18). Keeping in view the technology trends, the theme for the competition was chosen as 'Sustainable Smart Cities'. The vibrant and definitely wonderful entries submitted by all the contestants made it difficult to choose three winners. The first position was bagged by Shlok Yadav followed by Areeb & Dhruv Tyagi as second & third positions respectively. In another interesting activity called 'Treasure

Hunt' that was conducted post lunch, students were initially divided in various 'hunt' groups. In this 'technical' hunt of treasure, different group of students had to look for hidden objects with a series of clues, which would lead to the hidden 'treasure'. The group of students who could complete the task in the minimum time was announced as winner.



### Induction Program #DAY3



In yet another creative & challenging activity, School of Engineering & Technology made the fresh batch of students to think, design & visualize. On day 3 of induction program, a bridge model making competition 'Bridge The Gap' was organized & students were tested with their design skills. Initially, the students were briefed about various bridge models, bridge design principles, rules & regulations and the judging criteria of the competition.. After the task was completed by each team, all bridge structures were tested with their load bearing capacity one by one

by placing weights on them in an increasing order. In the end, two team were selected both of which had designed bridges with similar load capacity (7Kg). While one team used less number of sticks, other one had designed model with better aesthetic appeal. Finally, both were declared as joint winner.

### Induction Program #DAY4



After quite a few creative & brain testing activities on the first three days of induction program, it was time to experiment the physical proficiency of the freshers. On the day 4 (August 13), observed as sports day for the fresh batch, the students participated in various sports activities with great enthusiasm. The matches in various games including Volleyball, Football, Basketball, Tennis, Badminton, Chess, Carom etc. were played, fought with great contest & finally won by the team that had shown better physical performance as well as better application of techniques during the matches. The students had shown appreciable team effort and good game spirit in the overall sport event & were happy & convinced with their performance.

### Induction Program #DAY5



Similar to its opening day, the concluding day (day 5) of the induction program was full of activities. The day started with the Industrial Talk by Ms. Renu Mehta who delivered a brilliant lecture on a wide range of topics including industrial atmosphere, resume & CV preparation techniques, leadership, motivation & time management etc. In the next activity "Tech-Quiz", students' teams were quizzed on various technical as well as current affair issues & the team with highest final score was declared as winner. In another interesting activity, "Tech Dumb Charades" students' teams were formed again to participate in the en-

tertaining competition. In this fun-filled activity having multiple rounds, the students of each team represented technical words in pantomime syllable by syllable until they are guessed by the other teams. The team with highest guesses outscored others & announced as winner. In the post lunch session, students enjoyed the movie "Theory of Everything" in the university auditorium. This inspirational movie, specially screened for the fresh students, was based upon the life of great scientist Stephen Hawkins. In the end, all students' teams declared winner in various activities across the induction program were rewarded with attractive prizes by the Dean SET.

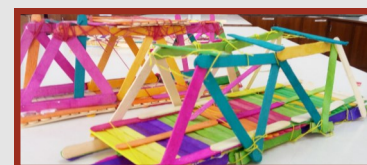
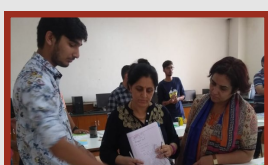


This induction program, specially designed for fresh students, proved to be worthwhile in



their smooth transition from their school life to Engineering college life along with a good level of exposure to university campus, faculty interaction, sports activities, laboratories & other infrastructure facilities present at the campus. The students had a good learning experience throughout the activities & found a good opportunity to further explore their talent & hidden potentials. This program, full of entertainment & learning activities, not only helped newcomers in testing & enhancing their psychological & physical proficiency but also improved their teamwork and creative thinking skills. The students were effectively boosted with their confidence levels & were motivated with several talks & tasks in the whole program.

The overall 5-day long induction program was well coordinated & organized by - Mr. Sandeep Gulia, ECE Deptt.





# ALUMNI SPEAK



While pursuing my B.Tech. at Ansals, I was really fortunate to study under the supervision of great teachers. Right from great teachers to infrastructure to library to staff, everything gave a strong foundation for a healthy educating ecosystem. Being a passionate in engineering, I was always ready with my questions (sometime stupid) at the end of a lecture, which were always welcomed by the expert in their fields. In the very beginning, I was very hesitant of asking questions from faculties but as the time progressed, I developed a strong assurance of getting answered almost always..

**Prince Baluni B.Tech (ECE) - 2008—2012**

**Sr. Electronics Engineer (Eaton)**



Ansal University is the best place to be in where your future is in making while introspecting and evolving yourself parallelly. Also the faculty here is no less than a family, always supportive, caring and always alert to monitor the students whether we are on a right and a positive track or not. So enjoy this phase if life; it is the only time you can be a child and an adult. It is your time to figure yourself out. So don't let anyone snatch away the time or the figuring. In this rat race, don't attempt to fit in, rather attempt to stand out.. My visit to the University of Warwick was informative and liberating. The Warwick faculty was helpful and generous. The teachers were very well versed, refined and helpful. They had organized fun cultural programmes and guided

**Lavish Gaba B.Tech (CSE) - 2012—2016**

**VOIP Engineer (HCL)**



Ansal University has been a crucial milestone in my journey. The experienced professors and supportive staff is an asset to the college. They have always been motivated, helpful, giving proper guidance from time to time. The college strives to develop and nurture other aspects of the personality by conducting entrepreneurial, cultural and sports events. I am grateful to be a part of such an institution. I want to express my heartfelt thanks to the College who gave me the perfect opportunity to explore myself and raised my level of confidence.

**Prakhar Arora B.Tech (CSE) - 2012—2016**

**Account Manager (Times of India)**



# FACULTY ACHIEVEMENTS

## Mr. Goutam Datta attended a workshop on Natural Language Processing



Mr. Goutam Datta, Assistant Professor from Computer Science & Engineering of SET @ AU attended two weeks' workshop on Natural Language Processing – IIIT Hyderabad Advanced School on Natural Language Processing (IASNLP-2018) from 22nd June 2018 to 7th July 2018 at IIIT Hyderabad. IIIT Hyderabad has its own dedicated research section on language technology namely Language Technology and Research Center (LTRC) under which there are several dedicated research labs on Machine Translation, Information Retrieval and Speech Processing. The workshop covered in depth contents on Natural language processing like computational linguistics, computational morphology, language modeling and sequence labeling, machine translation, neural machine translation, speech system, anaphora resolution etc.

## Workshop on AI and Deep learning skilling and Research



Ms. Alpana Jijja, Dr. Mamta Dhaiya, Dr. Rewa Sharma, Ms. Goutam Datta and Ms. Sherry Verma attended leading India workshop on "AI and Deep learning skilling and Research" from June 5-7 2018 in Bennett University (Greater Noida) which aims to impart training on Artificial Intelligent Technologies.



Dr. Isha Saini, Assistant Professor - Applied Sciences, successfully completed Short term course on Organic Photovoltaics & Electronics Technology at CSIR-National Physical Laboratory, New Delhi.

Ms. Garima Bakshi wrote a paper titled "Analysis of rectangular dielectric resonator antenna using TMM thermoset microwave material with probe fed arrangement" has been published in *UGC approved journal* "International Journal of Research on Electronics and Computer Engineering (IJRECE) July - September 2018)

Ms. Pramneet Kaur Assistant Professor (CSE) wrote a paper titled "A Novel technique of DWT based Image Steganography using Fuzzy logic" which was selected and got published in *International Journal of Arts & Sciences (IJAS)* for American Canadian Conference for Engineering and Technology which was held at McGill University, Montreal (30 May to 2 June 2018) and Ryerson University's Toronto (5 to 8 June 2018)

Ms. Megha Khatri attended the Workshop on Design and Implementation of Power Converters with EMC/EMI Modelling for Micro Grid & Electric Vehicle Applications from 18th - 21st July 2018 held at Indian Institute of Technology, Ropar, sponsored by IIT-ICSR division. This four days workshop focused on the role of power electronic devices in working of micro grids, grid interfacing and power management for automation, electric vehicles and their performance evaluation. The Hands-on sessions on MATLAB for converter designs, and ANSYS tools (Q3D, Simpler and HFSS) for converter EMC/EMI modelling was a new experience with lots of learning.

# STUDENT ACHIEVEMENTS



I would like to thank Ansal University for giving me such great opportunity. I especially want to thank the CRC team for putting in so much efforts to bring us the best job opportunities possible, Dean and all the faculty members to believe in me, support and guide me throughout my B.tech, and my family and friends to provide me moral support and love.

Getting a job is not an easy task, it requires not just your effort, it is a teamwork. From building the right foundation to bringing out best opportunities and I feel blessed to have this team beside me. To all the students I want to say that give your best fight and never miss an opportunity. This is the time, make it count.

**Ms. Aditi (Btech CSE B ,4th year)**

**Trainee Engineer ( Tek Systems ) Package—6.00 lakh**



**Mr. Ojasvi Gaur**



**Mr. Tarun Kumar**



**Mr. Nishchay Dutt Gaur**



**Mr. Keshav Gulati**

School of Engineering Technology Wish Good Luck to Mr. Ojasvi Gaur, Mr. Nishchay Dutt Gaur, Keshav Gulati and Tarun Kumar on starting their Career with Uno Minda from 2nd July 2018.



"As a delegate representing India at **The Harvard Project of Asia and International Relations Conference** which was held in Kuala Lumpur, Malaysia, It was truly an amazing experience full of knowledge and fun. I got a chance to listen to eminent speakers like Nobel Peace Prize Laureate Mohammed Yunus, Dr. Jeffrey Cheah, Founder & Chairman of Sunway Group etcetera. The panel discussions were so insightful about the startup culture in Asia and how banking is necessary and banks are not which was one of my seminars. Over all I fall short of words because there's so much you learn meeting delegates from all over the world and listen to diverse speakers. It has definitely grown me as a person and increased my insight of the corporate world

**Ms, Davisha Katoch (Btech CSE )**



Mr. Shivaditya Singh Tomar, B.Tech CSE student, has been successful in securing scholarship to pursue MS in Cyber Defense at Dakota State University in South Dakota, USA.





Ms. P Indralekha, student of B.Tech CSE (2014-18) successful in getting admission MS in data analytics at Northeastern University, Boston.



Mr. Kunal, student of IIInd year CSE has made us proud by winning the Hackathon 2018 organised by LPU, Jalandhar from 31st August-2nd September 2018.

*“Education is the most powerful weapon which you can use to change the world.”*

-NELSON MANDELA

## TEAM



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Dean - SET



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Chief Editor



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Mr. Abhinav Tayal  
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