



Sophia-Meet the first-ever robot citizen

In October 2017, the robot became a Saudi Arabian citizen, the first robot to receive citizenship of any country. Sophia is Hanson Robotics' latest and most advanced robot to date and a cultural icon. She has become a media darling, appearing on major media outlets around the world, igniting the interest of people regardless of age, gender, and culture, even gracing the cover of one of the top fashion magazines. Her press coverage has a potential reach of over ten billion readers in 2017. Sophia is an evolving genius machine. Her incredible human likeness, expressiveness, and remarkable story as an awakening robot over time makes her a fascinating front-page technology story.

By Ms. Shirke S. S.

UPCOMING EVENTS

In this semester we are planning for our annual student event TALENT HUNT 2K20

In TELENT HUNT students are going to organize various events like Robo-racing, Paper presentation, Quiz contest and Circuit Sudoku. Winner will awarded with trophies and certificates. Last year 200 students were participated in this events. Through this we got success in front of motivating our student to participated in competitive events, not only for our institute but also national as well as international competitions.

Industrial visit for 2nd and 3rd year students

We are planning industrial visits for our students to Akashwani Satara and ApTron Tech Satara, SM technologies Pune and BSNL Pune.

Expert Lecture

We plan expert lecture over the syllabus which conducted by industry experts for students.

Student Development

Department conducted short term professional courses in that we take 10 to 15 days workshop for student. Last vacation we conducted workshop for Robotic and Arduino programming . Upcoming vacation we plan for Arduino and Raspberry Pi project development and PCB Design. Also planning for implant training for students.

“Electronic communication is an instantaneous and illusory contact that creates a sense of intimacy without the emotional investment that leads to close friendships.”

EDITORIAL

It gives us great pleasure to present the 67volume and first issue of our departmental newsletter **“ELECTRA”**, which gives us the opportunity to focus the achievements in our department and new trends in Electronics and Telecommunication field.

I am thankful to all the students and faculties who have contributed during the preparation of this newsletter. We have tried our best and given positive efforts, expecting creative responses from everyone to continue the flow of knowledge through this newsletter.

Student Coordinator
Mr. Sonar Shashank
(TYEJ)



Celebrating 74th INDEPENDENCE DAY

ABOUT DEPARTMENT

Electronics And Telecommunication Engineering Departments had been start in 2008, with intake of 60 . Our departments have 6 well-equipped laboratories and 12 well qualified teaching staff. We have established the association “Talent hunt ” in which we conduct various activities like Quiz competition, Power point presentation, Robotics, Poster presentation, LAN gaming etc. This departments have organized various expert lectures and workshops like Embedded System, Arduino, Robotics, PLC and PCB Designing for the overall development of students. This type of activities are used to get better result in academic and overall development of students.



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Digital Scent Technology

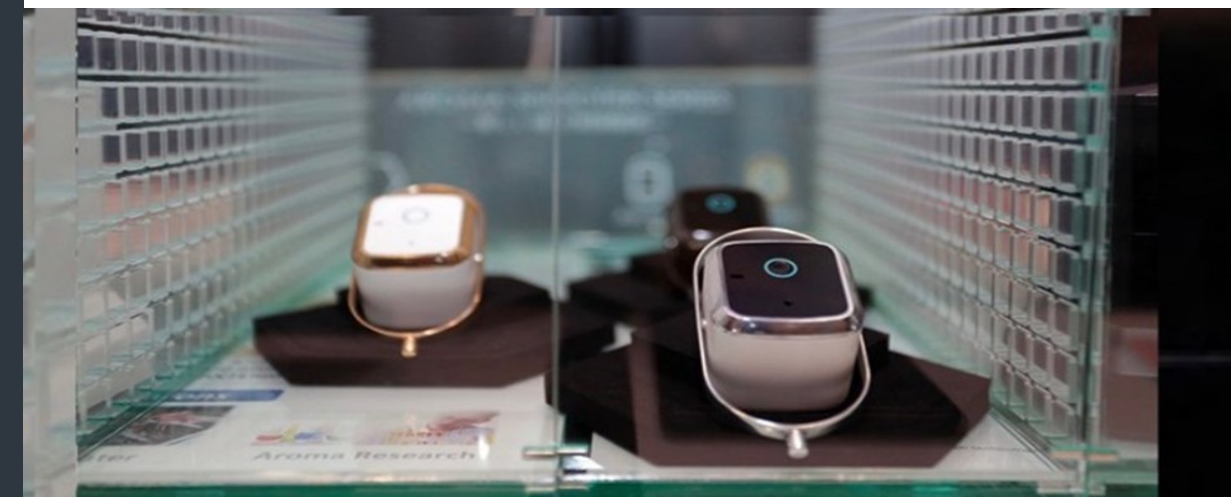


FIGURE: Aroma shooter presented at CEATEC 2016

A lot of research has been going on in the field of olfactory technology, which enables devices (or electronic noses) to sense, transfer and receive scent-enabled media such as audio, video, and web pages. The first odor-releasing system named Smell-O-Vision was invented in the late 1950s.

It was capable of emitting odor during the projection of a movie to enhance the experience of viewers. Since then many research facilities have come up with similar devices. One of them was iSmell developed in 1999. It consisted of a 128-odors cartridge from which various mixed odors can be produced. limitations, the product

However, due to certain limitations, the product was never commercially launched.

At CEATEC 2016, a company introduced a wearable scent device that can be controlled via smart phones and PCs. It still has many hurdles to overcome, including the timing and distribution of scents and the health risks of synthetic odors.

By Mr. Kumbhar. M. A.



What will be the scope of ECE after 2020 in India?

Year 2018

We have 4G, 5G services. Data rates are going up to 10-100 Gbps. Current generation general purpose microprocessors have quad cores, octa cores. Artificial intelligence and virtual reality has recently developed. Internet of things, gesture controlled home automation, and many more things have evolved uptill now.

Year 2020

Our needs and demands will increase. Earlier we were happy with data rates of 10 Gbps, but now we will need be needing more. 6G will arrive in the market. Requirement of faster processing will lead to evolution of 16-32 core processors. Artificial intelligence virtual reality will reach to new heights. Robotics will give us Butler bots, new companions to help us in daily work. There is no end to technology. It will keep on flourishing. There will always be a great score in this field



What makes a good electronics and communications engineer?

JOB OPPORTUNITIES FOR ELECTRONICS ENGINEER

Private Sectors: Tata tele services, Vodafone, Samsung, Intel, LG Electronics, Wipro, Cisco, Dell India, Reliance Infotech, Red pine, General Electric, Texas Instruments.

Public Sectors: Bharat Electronics Ltd. (BEL), Bharat Heavy Electricals Ltd. (BHEL), National Aluminum Company Ltd. (NALCO), National Thermal Power Corporation (NTPC), POWERGRID, HPCL, BSNL.

Latest ECE Technologies to learn are : Robotics, Internet of Things (IOT), Artificial Intelligence/Machine, Learning, Drone Development, Mechatronics Smart Energy Systems,, Automation Technologies.

By Ms. Deshmukh R. R.

- First, you should understand what is Electronics. This may sound silly. But try to explain to someone who does not know anything about electronics, without using the terms "Diode", "Transistor", "Circuit", "IC", "Microprocessor". etc.
- Second, Electronics is a branch of Electrical. So try to be strong in Electrical Fundamentals
- Third, Understand the Basic Transistor Circuit.
- Fourth, understand the Digital Circuit thoroughly from AND, OR, NOT gates to Microprocessors.
- Fifth, Understand C language thoroughly. It is a simple set of rules defined by Dennis Richie.

You can master C language with in a shortest time.

- Sixth, Master C programming skill. This is the most essential skill for the ECE students today. Without this skill you will find it difficult to enter into electronics core companies.
- Seventh, Buy a Microcontroller kit and apply the C programming skill to do good electronic projects by yourself without copying a single line of code from net/book/friends.
- These 7 steps will make you to eligible get a job in Electronics industry. Try to understand that in Core Industries Basics is the KING. So always master the Basics.

By Ms. Dongare M. A.



DEPARTMENTAL ACHIEVEMENTS IN ACADEMIC YEAR 2019-20

STUDENTS

SR. NO.	NAME OF STUDENT	SUBJECT	MARKS
1	GORE GAYATRI SANTOSH	AME	98/100
2	PATHAN SURAYYA MAKBUL	AME	96/100
3	SHILAWANT VRUSHAL SHARNU	AME	96/100
4	GORE GAYATRI RAMCHANDRA	LIC	98/100
5	MULANI AYESHA NAVAJ	LIC	96/100
6	PARCHANDE SAURABH SUDHIR	LIC	94/100
7	MUJAWAR SIMRAN LATIF	MAR	96/100
8	SONAR SHASHANK RAMAKANT	MAR	95/100
9			

FACULTY

- Our staffs had gone through the various trainings at Kannad Electromation, Sangali and various in house short term training programs .
- Four staff of our department are pursuing ME & Three staff have completed ME in various field.
- All staff are involved in R & D activities and in the verge of completion of several projects sponsored by agencies like IEI Kolkata.

DEPARTMENTAL RESULT FOR A.Y. 2019-20

SR. NO.	NAME OF STUDENT	% MARKS	CLASS
1	Ms. GORE GAYATRI SANTOSH	98.25	1 ST YEAR
2	Ms. PATHAN SURAYYA MAKBUL	96.63	1 ST YEAR
3	Ms. TONAGE VAISHNAVI ARVINDKUMAR	95.50	1 ST YEAR
1	Ms. GORE GAYATRI RAMCHANDRA	97.33	2 ND YEAR
2	Ms. MULANI AYESHA NAVAJ	95.78	2 ND YEAR
3	MR. TAKBHATE VIJAY DIPAK	94.33	2 ND YEAR
1	Ms. PATIL MADHURI DHANANJAY	93.47	3 RD YEAR
2	Ms. MUJAWAR SIMRAN LATIF	93.37	3 RD YEAR
3	Ms. MHAMANE VAISHNAVI RAMESH	92.42	3 RD YEAR

EYE ON IT

TECHNOLOGIES DEVELOPED BY DRDO ELECTRONICS DEPT. GOVT. OF INDIA.

- Battlefield Surveillance Radar
- EOCCM-Class Laser System
- 3D-CAR
- Revathi
- Weapon Locating Radar
- Sangraha
- Samyukta
- Antenna Systems
- Communication Systems
- Briefcase SATCOM Terminal
- Sectel
- Sujav
- Integrated Weapon System Simulation
- Multi-Detector Tomography System
- Laser Designator PRF Code Recognition Device
- Palmtop Green Microchip Laser Module
- Passive Q-Switching
- Threshold Detector

SOFTWARE USED FOR ELECTRONICS.

- MATLAB
- Xilinx ISE
- Altera Quartus
- Code Composer Studio
- HFSS
- OptSim
- Commsim
- µVision IDE
- Emu8086
- Proteus Design Suite
- PSpice
- Agilent Advanced Design System