

Ameca Robot shows off new level of human-like facial expression

Engineered Arts, a robot maker based in the U.K., is showing off its latest creation at this year's CES 2022. Called Ameca, the robot is able to display what appears to be the most human-like expressions by a robot to date. On its webpage, the company calls Ameca "The Future Face of Robotics." The software it comes with is geared toward creating life-like expressions. It can smile, frown, wink and open and close its mouth. It can also show frustration surprise or or amusement.

Ameca is currently available for sale through the Engineered Arts website certain models are also available for renting for events.

By Ms. Chidrawar S. B.

UPCOMING EVENTS

In this semester we are planning for our annual student event TALENT HUNT 2K22

In TALENT 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 9 volume and second 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.

Student Coordinator
Ms. Vaishnavi Tonage
(TYEJ)

Volume 09

ABOUT

Electronics

DEPARTMENT

Tele**C**ommunication

Engineering Departments

had been start in 2008.

with intake of 60. Our

departments have 6 well-

equipped laboratories and

12 well qualified teaching

We

established the associa-

tion " Talent hunt " in

which we conduct various

competition, Power point

presentation, Robotics,

Poster presentation, LAN

gaming etc. This depart-

various expert lectures

workshops

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.

have organized

like

System,

like Quiz

Issue 02

SVERIs College of Engineering (Polytechnic), Pandharpur.

26th JANUARY 2022

And



ELECTRA TIMES Electronics Trends And Application

Celebrating 74th REPUBLIC DAY

Department of Electronics and Telecommunication Engineering

VISION To be re

To be recognized as one amongst the best Electronics & Telecommunication Engineering Department in Maharashtra to fulfill the changing needs of the industry along with environmental and social aspects.

MISSION

- 1. To impart value based technical education in electronics and telecommunication engineering.
- 2. To develop technical knowledge of students.
- 3. To inculcate various skill sets of electronics and telecommunication among the students.
- 4. To make students ready for lifelong learning.

In this issue

Departmental Vision And Mission P.1

Flexound Pulse P.

What Will Be The Scope Of ECE After 2022 in India? P.2

Job Opportunities For Electronics Engineer P.2

Departmental Activities and achievements P.3

Ameca Robot P.4

Upcoming Events P.4

FLEXOUND PULSE



Figure: Flexound Pulse

Flexound Augmented Audio has launched the Flexound Pulse, a cinema seating solution that creates a personal sound bubble around movie watchers for the promise of a full-range quality audio experience without the use of external loudspeakers .The Flexound Augmented Audio vibro experience makes use of physical -acoustic vibration to generate multisensory soundwave audio, and was originally developed to help autistic children. Among the first commercial outings were in movie theater seating, with a cinema in Finland kicking things off in February 2019, followed by the UK's Ferco Seating gaining official certification for two boosted models in June, and TGV Cinemas installing 140 of Ferco's Milano seats in a theater in Malaysia

Unlike loudspeakers that vibrate sound into the air, this radiates the vibration through foam, providing a soft, near-field listening experience. Originally designed and engineered in Finland to help autistic children, the patented technology can be embedded into seats, cushions, or anything that is soft and in contact with the body

The technology could also enable auto makers to install personalized sound zones in cars, provide driver-only physical feedback, or offer sound massages to vehicle occupants. Use cases for automotive applications were demonstrated at a Hyundai event in December of last year.

By Mr. Valte. P. S.



What will be the of scope 2022 in after India?

Ever since the evolution of technology, Electronics and Communication have come to be a crucial area that's required by all of the industries. Hence. Electronics and Communication

Engineering are some of by branches college So students. college students pursuing electronics communication

engineering have plenty of scope in numerous industries

Year 2022

Our needs and demands Instruments. will increase. Earlier we were happy with data rates Public of 10 Gbps, but now we Bharat Electronics Ltd. will need be needing more. (BEL), Bharat Heavy 6G will arrive in the Electricals Ltd. (BHEL), market. Requirement of faster processing will lead to evolution of 16-32 core National Thermal Power processors. Artificial intelligence virtual reality POWERGRID, will reach to new heights. Robotics will give us bots, daily work.

There is no end to Artificial Intelligence/ technology. It will keep on Machine, Learning, Drone flourishing. There will Development, Mechatronalways be a great score in ics Smart Energy Systhis field.

By Ms. Jagtap S. B.



What makes a good electronics and communications engineer?

JOB OPPORmost well-known TUNUITIES FOR **ELECTRONICS ENGINEER**

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

Sectors: National Aluminum Company Ltd. (NALCO), (NTPC), Corporation HPCL,

new Latest ECE Technologies companions to help us in to learn are: Robotics, Internet of Things (IOT), tems,, Automation Technologies.

By Ms. Hakim A. A,

- 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","Microprocesso r". 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 Microprocessors.
- Fifth, Understand C language thoroughly. It is a simple set of rules defined by Dennis Richie. You master can 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 net/book/ from friends.
- These 7 steps will make you to eligible get a job Electronics industry. Try to understand Core that in Industries Basics is the KING. So always master the Basics.

By Ms. Dongare M. A.



STUDENTS

- Our student Jadhav Onkar Bharat from TY Class has done 62 electronics projects successfully.
- Three students of our department from SY and TY class has participated in "Regional Level Project Competition" organized by Government Polytechnic, Karad.

FACULTY

- Our staffs had gone through the various trainings like short term training programs, Faculty Development Program online due to pandemic situation.
- Four staff of our department are pursuing ME & One 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.

•Battlefield Surveillance

GOVT. OF INDIA.

EYE ON IT

TECHNOLOGIES

DEVELOPED BY DRDO

ELECTRONICS DEPT.

- Radar
- •EOCM-Class Laser System •3D-CAR
- •Revathi
- •Weapon Locating Radar
- Sangraha
- •Samvukta
- •Antenna Systems
- •Communication Systems
- •Briefcase SATCOM Terminal
- •Sectel
- Sujav
- •Integrated Weapon System Simulation
- •Multi-Detector Temography 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



Sr. No.	Name of Student	% MARKS	CLASS
1	Ms. Kulkarni Shradha Ramkrushnahari	94.63	1 ST YEAR
2	Ms. Tamboli Ashiya Ayub	89.13	1 ST YEAR
3	MR. CHAVAN YASHWANT TUKARAM	87.63	1 ST YEAR
1	Ms. Surayya Makbul Pathan	91.33	2 ND YEAR
2	Ms. Tonage Vaishnavi Arvindkumar	90.00	2 ND YEAR
3	Ms. GORE GAYATRI RAMCHANDRA	87.78	2 ND YEAR
1	Ms. RANDIVE AMRUTA BRAMHADEO	96.12	3rd Year
2	Ms. WAGAJ SHRUTI SHRIKANT	95.35	3rd Year
3	MR. MANE ASHITOSH DARLING	93.41	3rd Year
3	MR. PARCHANDE SAURABH SUDHIR	93.41	3rd Year



