Honda's latest ASIMO robot can now run 5.6 mph and even predict your behaviour

ASIMO is a humanoid robot that Honda has been developing for over a decade. It features hand dexterity as well as the ability to run fast, hop, jump, run backward, and climb and descend stairs. ASIMO can also recognise the faces and voices of multiple people speaking and can accurately predict what you'll do next.

Other physical feats range from running 5.6 miles per hour and hopping on one leg continuously to holding a soft paper cup without crumpling it ASIMO features a number of new capabilities that have resulted from Honda pursuing research into robots with decision-making capabilities.

By Ms. Hakim A. A.

Upcoming Events

In this semester we are planning for our annual student event

FDP

We plan Faculty development programme over the syllabus which conducted by academic experts for faculties

Webinar

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

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 is with great pleasure that we bring you the volume 7 first issue of Electra Times, the quarterly newsletter of E&TC Dept., SVERI's COE Poly. The name of our newsletter- Electrra Times- signifies latest trends and application in Electronics and Telecommunication field. With faculty that consists of bright minds and students who are keen to leave a mark, our future is in safe hands indeed.

The current newsletter highlights the activities of our students and the achievements of faculty during the past one year. The intent of Electra Times is to disseminate information about our department, and we hope that the readers find the issues informative and useful. We are thankful to the faculty and staff of SVERI's COE Poly. for their valuable inputs, and we welcome suggestions and feedback that will help us improve further

Student Coordinator
Ms. Pathan Suraiyya
(TYEJ)

Volume 7
ISSUE
01
January
2021

Celebrating 75h
INDEPENDENCE DAY

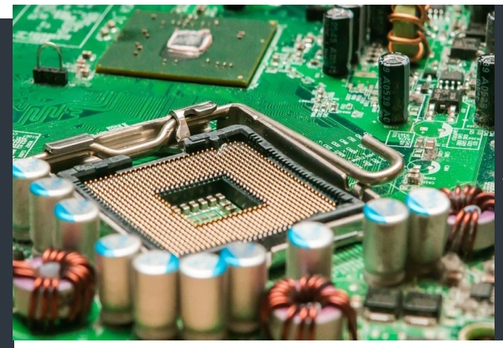
SVERIs College of Engineering (Polytechnic), Pandharpur.
Department of Electronics and Telecommunication Engineering

ELECTRA TIMES

Electronics trends and application

About Department

Electronics And Tele-Communication 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.



In this issue

Thermal imaging system

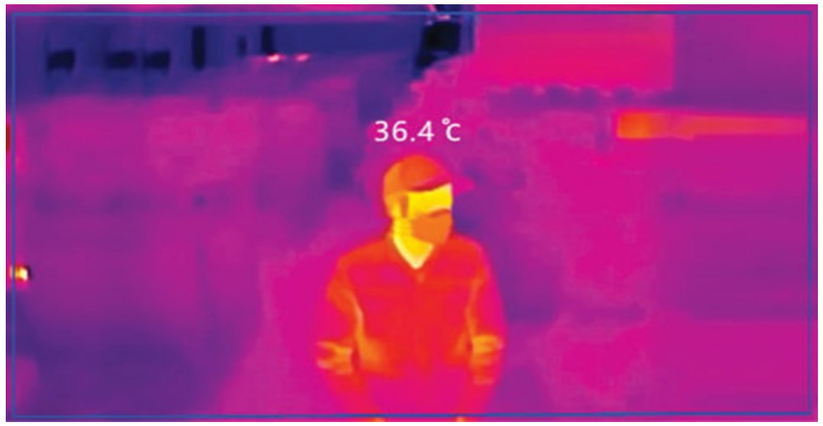


FIGURE: Thermal image of person displaying body temperature.

We can draw important lessons from the way deadly Corona virus is being handled in various countries successfully, especially in China, with the help of various new technologies.

The outbreak of Covid-19 has become a global emergency of 2020. So, various preventive measures are being taken to control the infection. The outbreak first started at the Wuhan city of China before it spread across the country. In China, doctors tried their best to cure the patients but most of the medications failed, and the death toll increased dramatically. The outbreak caused such an emergency that a new hospital named Huoshenshan Hospital was built within ten days at Wuhan.

Controlling such a deadly outbreak is very challenging task, but people of China too various comprehensive measures with the hel of artificial intelligence (AI) to control the outbrea

In China, people are being screened us ing sophisticated temperature detection device and thermal vision cameras, which are connec ed to AI systems, to detect infected people wit fever in various public places such as airports Such intelligent screening systems are able t control the outbreak of coronavirus infection eff ciently. Such AI-driven fever detection system can help in preventing seriously sick people fro traveling in public transport, and simultaneousl alert the paramedics about them.

By Mr. Valte. P. S.

Role of E&TC Engineering in combat against COVID-19

COVID-19 is a hazardous pandemic that badly affects millions of lives across the entire world. There are 213 countries and territories are recorded under the pandemic of COVID-19, and even the rest world is buzzing with uncertainty. It badly affects the world, whether it is the economy or the health of the human being. It is considered the most terrible global calamity of the 21st century and even the greatest confront for humans after faced the 2nd World War.

In such a hazardous situation, everyone tried their best efforts to kill this pandemic. Amongst, Electronic and Communication Engineers are performing a significant role in combating with Coronavirus pandemic by providing such automated solutions given below -

Disease Surveillance

Disease Surveillance is an ongoing procedure that consists of a systematic and organized collection of interpretation, analysis, and dissemination of details regarding the phenomenon of diseases indefinite population for community health measures. The prime purpose of disease surveillance is to detect the location of disease organisms like bacteria viruses to prevent human illness.

Integrated Sensor System

Integrated Sensor System is a great creation of Electronics and Communication Engineers in the combat of COVID-19. This system is set up in smart phones for advanced monitoring of the disease symptoms. It is a promising application for the early diagnostic of the status of COVID-19 in the human body.

Sensor-based Sanitizer Providing System

This sensor-based sanitizer providing system is an amazing creation by electronics and communication engineers in the combat of COVID-19. This automatic sanitizer dispenser consists of a touch less procedure, where individuals just need to put their hands under the senor area. This automatic sanitizer dispenser not only sprays an accurate amount of sanitizer but always make it ready for the next user in a maximum of 3 seconds.

By Ms. Dongare M. A.

7 new-age jobs in electronics and communication engineering

Electronics and Communication Engineering is unquestionably a promising growth-driven domain. With adequate knowledge and competent abilities, students can avail a wide range of job opportunities. Some of the most significant new-age career choices that students can select after their degree are listed below-

1. Electronics Engineer

Typically responsible for creating, designing and producing everyday devices like mobile phones, music devices, and computers, electronics engineers innovate and develop new ideas in a wide range of industries. They design and manage equipment used to control and monitor processes, systems, and machinery in diverse areas.

2. Electronics Design Engineer

Primarily accountable for providing technical assistance in the design and development of electronic systems, an electronics design engineer formulates test plans and procedures for the same.

3. Desktop Support Engineer

Whether it's a large enterprise or a small scale business, the role of a desktop support engineer is of acute importance. Chiefly responsible for resolving issues in an organization's computer system, they fix server and security problems that may impact business operations.

4. Service Engineer

Service Engineers are usually responsible for the support, continuance and correction of sold products. They provide off-site restorative and preventive maintenance services along with after-sales technical support solutions.

5. Communications Engineer

The most significant duty of a communications engineer is to design and modify electrical communications systems by managing and monitoring the performance of the design and planning team.

6. Technical Director

A high-profile position in the industry, the profession of a technical director, requires many years of work experience and proficient knowledge in the field. The primary duty of a technical director is to

7. Network Planning Engineer

The role of a network planning engineer is highly significant in the maintenance of both the internal and external networks of an organization. Their primary duty is to support critical teams across the organization to implement new standards after communicating strategies for new projects.oversee each project's cycle from inception to completion with additional concentration on technical quality and resource efficiency.

By Ms. Yadav S. S.

Departmental Achievements in academic Year 2020-21

Students

Sr. No.	Name of Student	Subject	Marks
1	KULKARNI SHRADDHA RAMKRUSHNAHARI	BME,ENG, BSC	100/100
2	TAMBOLI ASHIYA AYUB	BME,ENG, BSC	100/100
3	MODI SOHAM PRASHANT	BME,ENG, BSC	100/100
4	KADAM ASHWINI SHANKAR	AEL	99/100
5	PATHAN SURYYA MAKBUL	PEC	99/100
6	Tonage Vaishnavi Arvindkumar	PEC	99/100
7	WAGAJ SHRUTI SHRIKANT	EST,MWC	100/100
8	RANDIVE AMRUTA BRAMHADEO	EST,MWC	100/100
9	PARCHANDE SAURABH SUDHIR	ESY	99/100

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	KULKARNI SHRADDHA RAMKRUSHNAHARI	99.71	1st year
2	TAMBOLI ASHIYA AYUB	99.00	1st year
3	MODI SOHAM PRASHANT	98.29	1st year
1	Ms. Pathan Surayya Makbul	96.00	2nd year
2	Ms. Tonage Vaishnavi Arvindkumar	94.00	2nd year
3	Ms. Gore Gayatri Santosh	93.00	2nd year
1	Ms. RANDIVE AMRUTA BRAMHADEO	98.11	3rd Year
2	Ms. WAGAJ SHRUTI SHRIKANT	96.74	3rd Year
3	Mr. PARCHANDE SAURABH SUDHIR	96.32	3rd Year

EYE ON IT

Technologies developed by DRDO Electronics Dept. Govt. of India.

- Battlefield Surveillance Radar
- EOCM-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 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

ELECTRA Dept. Of ENTC