

# Karmayogi Polytechnic College, Shelve

## Department of Computer Technology

### TechBite



INDIA  
Independence Day

#### Our Vision

*To attain academic excellence in computer technology and produce proficient engineers with moral values.*

#### Our Mission

- ♦ To make use of best teaching-learning methodology to impart quality education in computer technology.
- ♦ To provide a learning environment to enhance ability of students to accept latest trends in computer industry.
- ♦ To establish industry interaction program to get exposure of corporate work culture.
- ♦ To groom our students to become followers of professional and ethical practices.

#### H.O.D's Message:

It is my great pleasure and honor to congratulate students and teachers of Computer Technology Department for the publishing first issue of newsletter 'TechBite'. Newsletter is believed to be a focus of or enlightenment on the inside activities i.e. academics, students and faculty achievement as well as innovation occurring in the department. In the era of engineering and technology the valuable articles & other important contents in this newsletter will surely encourage and motivate the students and teachers of sharing their creativity and new ideas with the world and will help in their overall development.

**Mr. D. J. Ghanawajeer**

#### OUR TOPPERS



**Kavita Mastud**  
88.59%



**Priti Salunkhe**  
91.47%



**Shital Hote**  
96.47 %

#### Editorial

*It gives us immense pleasure to present you this newsletter "TechBite" on the occasion of 15th Aug. 2019. To enhance the creativity of students and to explore their knowledge which is out of box this activity was suggested and it got instant approval by our Honorable Principal Dr. Ajit Kanase and Our HOD Mr. D. J. Ghanawajeer. I would like to say thanks to all my colleagues and students friends for their support and contribution. Without their activity in thoughts could not become a reality. We are dedicating this first issue to our Indian Golden Girls Hema Das for here great achievements. I hope our small effort will surely ignite your minds with little bit computer technology literatures. Thank You. Editorial Borad*

**Mr. Amar Vagare (SY CM), Ms. Vaishnavi Ghadage (SY CM), Mr. Sachin M. Jagadale**



15th Aug. 2019  
Volume: I, Issue: I



**WE ARE  
SO PROUD  
OF YOU**

## 5G Technology

5G Technology stands for 5th Generation Mobile technology. 5G technology has changed the means to use cell phones within very high bandwidth. User never experienced ever before such a high value technology. Nowadays mobile users have much awareness of the cell phone (mobile) technology. The 5G technologies include all type of advanced features which makes 5G technology most powerful and in huge demand in near future.



5G technology going to be a new mobile revolution in mobile market. Through 5G technology now you can use worldwide cellular phones and this technology also strike the china mobile market and a user being proficient to get access to Germany phone as a local phone. With the coming out of cell phone alike to PDA now your whole office in your finger tips or in your phone. 5G technology has extraordinary data capabilities and has

ability to tie together unrestricted call volumes and infinite data broadcast within latest mobile operating system. 5G technology has a bright future because it can handle best technologies and offer priceless handset to their customers. May be in coming days 5G technology takes over the world market.



5G Technologies have an extraordinary capability to support Software and Consultancy. The Router and switch technology used in 5G network providing high connectivity. The 5G technology distributes internet access to nodes within the building and can be deployed with union of wired or wireless network connections. The current trend of 5G technology has a glowing future.

**Ms. Priti N. Salunkhe ( TY CM)**

**Ms. Mrunal R. Kokane (TY CM)**

## Internet of Things..



The Internet of Things (IoT) refers to a vast number of “things” that are connected to the internet so they can share data with other things – IoT applications, connected devices, industrial machines and more.

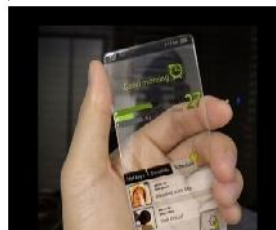
Internet-connected devices use built-in sensors to collect data and, in some cases, act on it. IoT connected devices and machines can improve how we work and live. Real-world Internet of Things examples range from a smart home that automatically adjusts heating and lighting to a smart factory that monitors industrial machines to look for problems, then automatically adjusts to avoid failures.

**Ms. Poonam Londhe (TY CM)**

**Ms. Rutuja Asabe (TY CM)**

## Palm Technology

Researchers are developing a revolutionary new technology that puts the mobile phone on the palm of your hand — literally. Using a special camera that combines high-speed vision and two rotational mirrors, Masatoshi Ishikawa and colleagues at the University of Tokyo have found a way to project a device and display or keyboard onto the palm or any other surface, so that one can operate it remotely at home or office. The system can detect the movement of a 3D object every two milliseconds, The high-speed vision allows the programmed to track moving objects, so that users would be free to walk with the phone image on their palm, without the display ever shifting, ABC News reported. The computer system beams ultrasonic wave emitters, so users actually feels the keyboard pressing against their skin, without anything in their hand. The sensation is similar to holding a 3 gram object. & you wont need a keyboard , you wont need to carry a smartphone, or a computer. You can make a call without anything., It is expects the technology to turn into a reality in a year 2039.



**Ms. Shital Hote & Ms. Vaishnavi Salunkhe (SY CM)**

## ASIMO ROBOT

**Robots**, the suppositious concept that has been demonstrated a million times in movies, comes to life with the brilliant exertion of Honda. **ASIMO** or **Advanced Step in Innovative Mobility** is a state-of-the-art humanoid robot created by Honda in the year 2000. Aimed to be a multi-functional portable assistant, ASIMO is intended to function in real-world environments. The creation of ASIMO was envisioned to help people who are bed ridden or disabled. ASIMO beats humans in tasks which can be devastatingly dangerous for them for instance, going in hazardous areas, scrapping fires or defusing a bomb. The composition of ASIMO has been kept purely welcoming and friendly. The era of robots existence has been a topic of continuous debates and has invited numerous advantages and disadvantages of the actuality of robots but, Honda with its very first creation has proved that robots can operate efficiently.

Honda, with the joint efforts of its eccentric robotic research and development team, successfully launched ASIMO after 20 years of consecutive hard work. Following

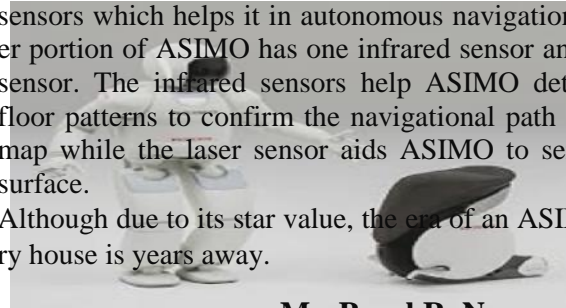
This ASIMO team continues to excel and refine their wonderful creation. Below are ASIMO's configurations:

**Skills:** ASIMO was tossed with a purpose of aiding the needs of the elderly and disabled as well as manage household errands. ASIMO has human like features as it can make gestures, speak and interact like humans which makes it a friendlier robot. ASIMO holds the capability to sense the movements of numerous objects while capturing

visual information by it's camera eyes. Determination of direction and distance is also done by the two camera eyes of ASIMO. The former features of ASIMO enables human like feature Movement:

ASIMO is accomplished in average walking with a speed of 2.7 km per hour. Talking about running speed, ASIMO can run with an average speed of around 9 km per hour. The movements of ASIMO are managed by aimed Zero Moment Point control as well as floor reaction control that allows ASIMO to stay firm at a particular position and maintain it healthily. The body position, length of steps and speed are adjustable by ASIMO. ASIMO's hands, legs, waist and neck have variable degrees of movement. The degree of freedom is defined specifically of each robot and to frame further, ASIMO has 57 degree of freedom. The fundamental body parts of ASIMO like wrist, shoulder, hip joints and neck individually has around three degrees of freedom whereas, hands with one thumb and four fingers have two degrees of freedom. For determination of obstacles, ASIMO has visual sensors. In totality, ASIMO has sensors which helps it in autonomous navigation. The lower portion of ASIMO has one infrared sensor and one laser sensor. The infrared sensors help ASIMO determine the floor patterns to confirm the navigational path of strategic map while the laser sensor aids ASIMO to sense ground surface.

Although due to its star value, the era of an ASIMO in every house is years away.



**Ms. Payal R. Nagane (TY CM)**

**Ms. Pratidnya Deshmukh (TY CM)**

## Up Coming Events

- \* Hardware and Networking Course for Second Year Student is planed at 4th Week of August.
- \* Industrial Visit at JIO Mumbai is scheduled in 2nd week of September.
- \* Android workshop for 2nd Year student is planned in the month of September.
- \* For 3rd Year students we are arranging Training on Mongo DB by industry persons.
- \* We are also looking for Java Certification of all 3rd year students by end of this semester.

## Guest Lectures

- Introduction to Android Development By **Mr. Abhijeet Gatade**, iGAP Technology, Kolhapur On 06/07/2019
- Introduction to SAP By **Ms. Swati Manjaratkar**, RSolutions Pvt. Ltd. Bandra, Mumbai On 22/07/2019



## OUR RESULTS

### Overall

Class	Name of Student	Percentage
FY	HOTE SHITAL SHIVAJI	96.47 %
FY	KAPSE POOJA RAJARAM	90.00 %
FY	SHELKE SWATI BHARAT	89.00 %
SY	SALUNKHE PRITI NAVANATH	91.30 %
SY	LONDHE POONAM ANKUSH	90.20 %
SY	SHINDE MONALI BALU	89.66 %
TY	MASTUD KAVITA NAVANATH	88.59 %
TY	SARADE VIJAYA HARI	86.82 %
TY	DHOBAL ADESH SANJAY	86.59 %

### Subject Toppers

Name of Student	Subject	Marks
POONAM LONDHE	OOP	100
MONALI SHINDE	DTE	100
MONALI SHINDE	OOP	100
VAISHNAVI GHADAGE	AMS	100
POOJA KAPSE	AMS	100
PRATIDNYA DESHMUKH	DTE	99
SHITAL HOTE	BEC	98
PAYAL NAGANE	OOP	97
SHITAL HOTE	EEC	96

## ACTIVITIES



Mission Clean India... Students Cleaning the College Campus..!