VIVA INSTITUTE OF TECHNOLOGY

VIRAR

BOOTSTRAP

STAFF INCHARGE: SIDDHESH DOIPHODE
EDITOR: CSI VIVA-VIT TEAM

Vision

To develop competent citizens who will be valuable contributors in the field of technology and science.

Mission

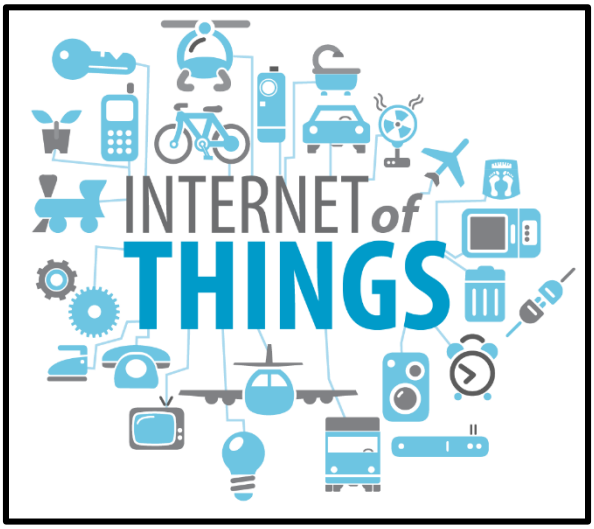
1. To create an environment which will stimulate research, creativity and innovation.
2. To provide students with comprehensive knowledge of the latest developments in Computer Engineering.

Program Educational Objectives

1. To equip students with solid foundation for solving hardware and software problems as per the needs of the corporate sector.
2. To develop the ability among the students to understand and interpret technical issues which is important for creating dynamic software.
3. To create an environment for inculcating leadership quality by nurturing raw talent.
4. To empower students and faculties for research and innovations.
5. To inculcate ethical, behavioural, organisational and social values.

"If you can do what you do best and be happy, you're further along in life than most people."

INTERNET OF THINGS

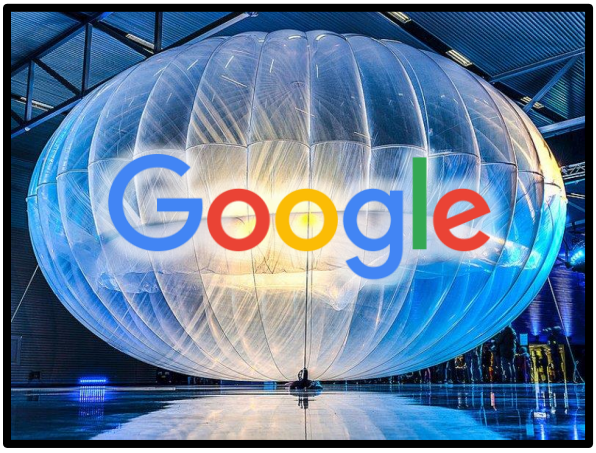


The **Internet of Things** (**IoT**) is the network of physical objects, device items embedded with electronics, software, sensors, and network connectivity that enables these objects to collect and exchange data , vehicles, buildings and other The Internet of Things allows objects to be sensed and controlled remotely across existing network infrastructure, creating opportunities for more direct integration of the physical world into computer-based systems, and resulting in improved efficiency, accuracy and economic benefit; when IoT is augmented with sensors and actuators, the technology

becomes an instance of the more general class of cyber-physical systems, which also encompasses technologies such as smart grids, smart offices, smart homes, intelligent transportation and smart cities.
British entrepreneur Kevin Ashton first coined the term in 1999 while working at Auto-ID Labs (originally called Auto-ID centers, referring to a global network of objects connected to radio-frequency identification, or RFID). Typically, IoT is expected to offer advanced connectivity of devices, systems, and services that goes beyond machine-to-machine (M2M) communications and covers a variety of protocols, domains, and applications.

- **Dattaram Naik (TE Comps)**

PROJECT LOON



Project Loon is a research and development project being developed by Google X with the mission of providing Internet access to rural and remote areas. The project uses high-altitude balloons placed in the stratosphere at an altitude of about 18 km (11 mi) to create an aerial wireless network with up to 4G-LTE speeds.

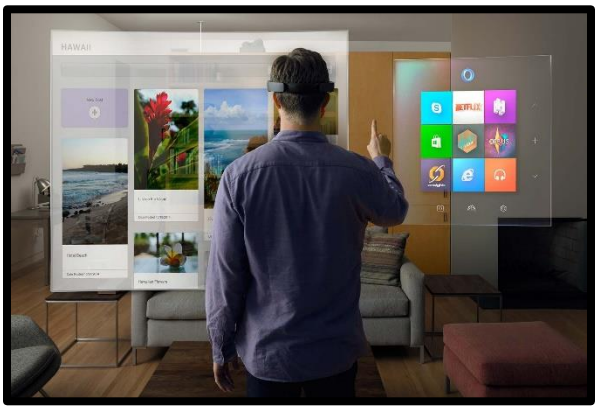
The balloons are maneuvered by adjusting their altitude in the stratosphere to float to a wind layer after identifying the wind layer with the desired speed and direction using wind data from the National Oceanic and Atmospheric Administration (NOAA). Users of the service connect to the balloon network using a special Internet antenna attached to their building. The signal travels through the balloon network from balloon to balloon, then to a ground-based station connected to an Internet service provider (ISP), then onto the global Internet. Features:-

- Google uses solar panel and wind to power electronic equipment in the balloon throughout the day
- The system aims to bring Internet access to remote and rural areas poorly served by existing provisions.
- System aims to improve communication during natural disasters to affected regions.

In early 2016, google will begin the testing of loon project in India with initial telecomm partner BSNL.

- **Nitin Daddikar (TE Comps)**

MICROSOFT HOLOLENS



Microsoft HoloLens is a smart-glasses headset that is a cordless, self-contained Windows 10 computer. It uses advanced sensors, a high-definition stereoscopic 3D optical head-mounted display, and spatial sound to allow for augmented reality applications, with a natural user interface that the user interacts with through gaze, voice, and hand gestures.

The Microsoft HoloLens design is of a visor glasses unit connected to an adjustable padded inner headband. The unit can be tilted up and down, as well as adjusted forward and backward in relation to the headband.

HoloLens embraces virtual reality and augmented reality to create a new reality. Virtual reality immerses you in a simulated world. Augmented reality overlays digital information on top of your real world. By understanding your environment, mixed reality enables holograms to look and sound like they're part of your world.

- **Sumit Mangela (TE Comps)**

SMART HALO

The flat and round Smart Halo device can turn any bike into a smart bike: all you need is smartphone connectivity and the companion app. A luminescent and transforming halo provides a turn-by-turn navigation system that tells bikers where to go without having to deal with the clunk of an intricate smartphone map. The lighting system is pretty versatile in the information it can give the rider: where to turn, how much to turn, when to slow down and when to stop all with a simple glance.

There's a hoard of other features packed into the device as well, including a light that illuminates the rider's path, a notification system for incoming calls and weather changes, and a sensor-activated alarm to prevent bike theft. All of these features are based around different permutations of the central light display. And of course, its military-grade lock system can latch safely onto any kind of bike.

- **Vaibhav Parab (TE Comps)**

TEST YOUR APTITUDE

1. A train 360 m long is running at a speed of 45 km/hr. In what time will it pass a bridge 140 m long?

A. 40 sec B. 42 sec

C. 45 sec D. 48 sec

2. The value of $[(10)^{150} \div (10)^{146}]$

A. 1000 B. 10000

C. 100000 D. 10^6

3. 16, 33, 65, 131, 261, (....)

A. 523 B. 521

C. 613 D. 721

4. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?

A. Sunday B. Saturday

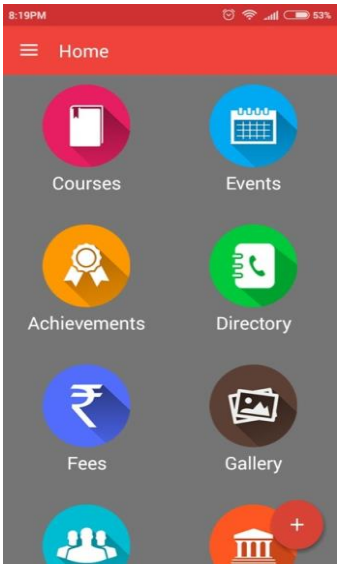
C. Friday D. Wed

CSI_VIT & with kind support of Computer Department conducted following list of events successfully:

Month	Events
January, 2016	**Seminar on web development by Harsh Patel (www.brainheaters.in).**
January,2016	**Seminar on Photoshop for Third year students by Sumit Mangela and Himanshu Wadekar.**
February,2016	**JUGAAD RELOADED: Computer engineering students successfully organized jugaad. Events:- 1. Mystery Maze 2. Red Cross Alert 3. Balam Pichakari 4. Time Trial 5. Snakes and Ladders**
February,2016	**Seminar on Photoshop for Second year students by Sumit Mangela and Himanshu Wadekar.**
March,2016	**NCRENB-2016 national conference**

NCRENB PROJECT EXHIBITION

1st Rank- VIVA TECH (Android App)

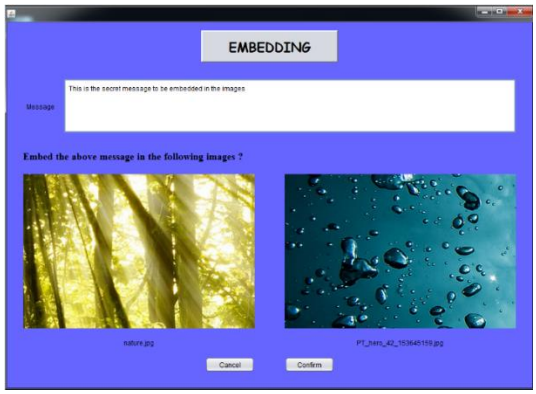


Developers: - Vrajesh Akabri (BE),
Divyesh Dhedhi(BE),
Vishal Rabadiya (BE)

2nd Rank- Target Dependent Sentiment Analysis using Onto Fuzzy Logic

Developers: - Sonal Mehta (BE),
Purva Mestry (BE),
Shruti Joshi (BE)

3rd Rank- Advanced Steganography using pixel pattern matching



Developers: - Siddhesh Bhat (BE),
Aishwarya Wadnerkar (BE),
Mayur Waghchaude (BE)

INTERCOLLEGE PROJECT EXHIBITION

Project Title: Secured E-Documents & Sharing using Encrypted QR-Code

- Won consolation prize in "2nd National Level Project Exhibition Cum Poster Presentation" at Universal College of Engineering.
- Won Third prize in "National Level Project Showcase OPUS 2016" at Vidyavardhini"s College of Engineering & Technology.

Developers: - Harshal Pandit (BE),
Shailendra Nipane (BE),
Suraj Jadhav (BE)

IEEE PUBLICATIONS

Following papers were published in the proceedings of IEEE Interational Conference on Engineering and Technology (ICETECH), Coimbatore, 17th March 2016.

- R. Soni, S. Goregaonkar, D. Deshmukh, J. Sangoi, “Smart Diet Food Suggester”
- S. Palak, P. Sonal, G. Shreyas, P. Nikita, "Walkie- Talkie using Wi-Fi Direct"
- M. Patkar, P. Pawar, M. Singh, A. Save, ”A New way of Semi Supervised Learning Based on Data Mining for Product Reviews”
- M. Jha, N. Jambhale, V. Manjreka, A. Save, “Effective Semantic Web Crawling through URL Ordering using Enhanced Shark Search Algorithm”
- D. Dhedhi, V. Akabari, V. Rabadiya, S. Doiphode, “VIVA TECH Android App”
- P. Shetty, P. Shah, S. Dahiwalikar, H. Parmar , “Hindi To Hindi: Automated System For Hindi Query Evaluation”
- R. Saboo, I. Sav, K. Sinha, T. Nagarhalli, “Home Automation System using Zigbee and Bit-Voicer”
- P. Mestry, S. Joshi, S. Mehta, A. Save, “A New Approach to Target Dependent Sentiment Analysis with Onto-Fuzzy Logic”
- N. Patil, S. Patil, A. Sankhe,S. Sankhe , “Astute License Patrolling using Near Field Communication Technology”
- L. Mhatre, R. Kute, R. Madav , “Advance Automatic Form Filling Based on Image Processing”
- S. Bhat, A. Wadnerkar, M. Waghchaude, “Enhanced Steganography using Pixel Pattern Matching”
- M. Joshi, A. Joshi, P.Kudnekar, S. Doiphode, ”Advance Question Paper Generation System”
- R. Mhatre, S. Jadhav, A. Dhodade, “Intelligent company sales prediction”

SecKey Paste

Share your data between PC and mobile using Android & Web app.
Google Playstore: https://play.google.com/store/apps/details?id=com.ni3.seckeypaste&hl=en

Web app: http://seckeypaste.16mb.com

Developers: - Nitin Daddikar (TE),
Sumit Mangela (TE),
Tejasvi Bargode (TE)

TOPPERS OF LAST SEMESTER

B.E. Computer:
1st Rank – Purva mestry with 9.2 SGPI
2nd Rank – Inderjeet sav with 9.04 SGPI
manish solanki with 9.04 SGPI
T.E. Computer:
1st Rank - Sumit Mangela With 9.45 SGPI
2nd Rank – Shrividhya Iyer With 9.33 SGPI
3rd Rank – Dattaram Naik With 9.25 SGPI

S.E. Computer:
1st Rank - Amruta Dhumal With 7.8 SGPI
2nd Rank –Shruti Lade With 7.68 SGPI
3rd Rank- Shreyas Wankhede With 7.62 SGPI

for more info http://www.viva-technology.org