VIVA INSTITUTE OF TECHNOLOGY

VIRAR

# BOOTSTRAP

THE NEWSLETTER OF THE DEPARTMENT OF COMPUTER ENGINEERING



**STAFF INCHARGE** : TATWADARSHI P.N
**EDITOR** : CSI – 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 this 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, behavioral, organizational and social values.

Another fresh new year is here…

***"Another year to live !***
***To banish worry, doubt, and fear,***
***To love and laugh and give! ...***
***...I have the opportunity***
***Once more to right some wrongs***
***To pray for peace, to plant a tree,***
***And sing more joyful songs !"***


## BEST SOLAR PANELS FOR HOMES (GOING GREEN)

Solar panels promise to lower your electricity bill by supplementing the energy you buy from the local power company. But choosing and installing solar panels can be an overwhelming task.

Solar cells, which are linked together in a panel, convert sunlight into electricity via photovoltaic materials, such as silicon. When sunlight hits these materials, the light's energy is absorbed, and that energy causes electrons within the material to escape from their position in the atom of silicon or other photovoltaic material. These released electrons are captured to produce an electric current.

As of the third quarter of 2014, more than 17,500 megawatts of cumulative solar electric capacity are operating in the United States, which is enough to power more than 3.5 million average American homes, according to the Solar Energy Industries Association. Residential solar panels were the fastest-growing category, with 58 percent growth during the quarter, the association reports.

## WORLD'S FIRST ROBOT-STAFFED HOTEL TO OPEN IN JAPAN

What If You Could Check Into A Hotel, Have Your Luggage Carried To Your Room And Order A Coffee — All With Help From A Team Of Robots?

A New Hotel At A Theme Park In Nagasaki, Japan, Hopes To Make That Dream A Reality. The Henn-Na Hotel (Whose Name Means "Strange Hotel") Will Be Partially Staffed By Androids That Work As Reception Attendants, Robot Waiters, Cleaning Staff And A Cloakroom Attendant, The Telegraph Reported.

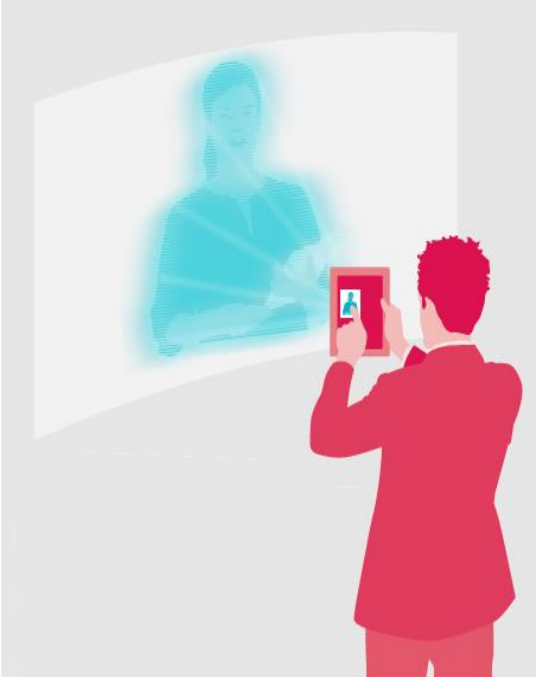
Developed By Japan's Osaka University And Manufactured By The Japanese Robotics Company Kokoro, Many Of The "Actroid" Robots Resemble A Young Japanese Woman.

## TESCO BECOMES FIRST UK RETAILER TO LAUNCH A GOOGLE GLASS-ENABLED SERVICE.

The Glassware has been developed by Tesco Labs, which experiments with disruptive technologies able to change the way customers shop. The Tesco Grocery Glassware lets you browse goods, view nutritional information and add items to your basket hands-free, via the voice search function or by scanning a product's barcode using the headset's built-in camera. In this, its first foray into providing services for wearable technology users, Tesco has intentionally kept the functionality of the app simple as it considers the consumer response to wearable's and the likelihood of increased demand.

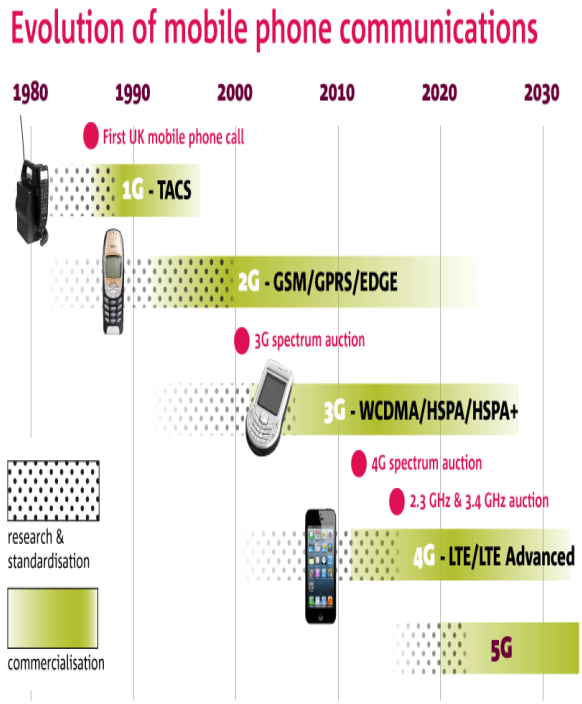
Last week, Google announced they would stop producing the Google Glass prototype, but remain committed to the product's development. In their eyes, Glass is ready to 'graduate' from Google Labs, the experimental phase of the project. The company will now focus on "future versions of Glass" with research and development handled by a different division to before.

# LAYING THE FOUNDATIONS FOR 5G MOBILE

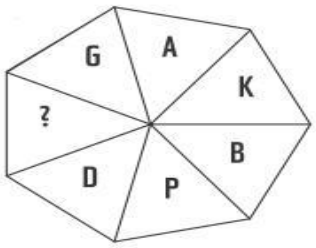


So-called '5G' mobile communications will use a very high frequency part of the spectrum above 6 GHz. 5G mobile is expected to deliver extremely fast data speeds – perhaps 10 to 50 Gbit/s – compared with today's average 4G download speed of 15 Mbit/s. 5G services are likely to use large blocks of spectrum to achieve these speeds, which are difficult to find at lower frequencies.

The timeframe for the launch of 5G services is uncertain, although commercial applications could emerge by 2020, subject to research and development and international agreements for aligning frequency bands. The spectrum above 6 GHz currently supports various uses – from scientific research, to satellite broadcasting and weather monitoring. One of Ofcom's core roles is to manage the limited supply of spectrum, taking into account the current and future demands to allow these different services to exist alongside each other. Philip Marnick, Ofcom Spectrum Group Director, comments: "5G must deliver a further step change in the capacity of wireless networks – over and above that currently being delivered by 4GThese innovations, according to Ofcom, might include real-time holographic technologies, allowing relatives to virtually attend family gatherings. Or they could enable specialist surgeons to oversee hospital operations while located on the other side of the world, using 3D medical imaging. Ofcom is seeking views on the use of spectrum above 6 GHz that might be suitable for future mobile communication services. The closing date for responses is 27th February 2015.



## TEST YOUR APTITUDE:

| | |
|---|---|
| 1. | What is the missing letter?<br>  <br> |
| 2. | In a certain code, TOGETHER is written as RQEGRJCT. In the same code, PAROLE will be written as:<br>(A)RYPQJG<br>(B)RCPQJG<br>(C)NCPQJG<br>(D)NCPQJC<br>(E)None of These |
| 3. | The ratio of two numbers is 3:4 and H.C.F is 4. Their L.C.M is:<br>(A)12 (B) 16 (C) 24 (D) 48 |
| 4. | Who created Google?<br>(A). Marie Curie-Pierre Curie<br>(B) Larry Page-Sergey Brin<br>(C) Ben Cohen-Jerry Greenfield |

## ANSWERS:

1) V is missing

2) - (B)

3) - (A)

4) - (B)

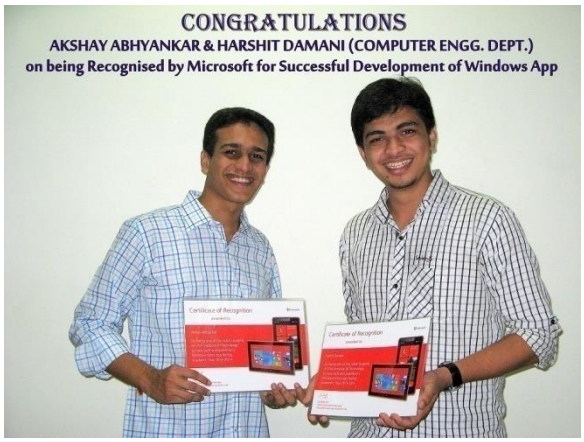
**Computer Engineering Department** and **CSI-VIT**, the students' chapter of CSI, successfully conducted following list of events in the first half and in second half of 2014:

| Month | Events |
|---|---|
| March,2014 | CSI-VIT with other committees arranged NCRENB-14 at VIVA Institute of Technology. |
| August,2014 | 4 webinars and 2 seminars on Microsoft certification with respective MICROSOFT specialized members. |
| September,2014 | Commencement of CSI-VIT Core committee and Assisting committee (2014-2015) |
| September,2014(1st Week) | CSI organized ANDROID WORKSHOP for 2 days for Students welfare by SKYNET SECURE SOLUTIONS. |
| September,2014 (3rd Week) | CSI again Organized the 2nd workshop on DOT Net Fundamentals for 3 days By PROFESSIONAL COMPUTER INSTITUTE for students welfare. |

| | |
|---|---|
| September,2014 (4th Week) | Events under CSI_VIT were 1)Laser Tag 2)Search Me First 3)Mud Race 4)Bot Cricket and 8 more … The CSI-VIT successfully organized the first Inter college Technical Festival Techchase-2014 on 25th,26th,27thof September, 2014. |
| January,2015 | 1) Android Application Development seminar Lecture specially conducted for TE computer students. 2) Entrepreneurship seminar conducted for BE computers. |
| February, 2015 | Present 5th CSI-VIT Newsletter. |
| March, 2015 | CSI-VIT with other committees arranged NCRENB-15 at VIVA Institute of Technology. |

## ACHIEVEMENTS OF COMPUTER ENGINEERING STUDENTS IN THE LAST SEMESTER

B.E Computer Students, **Harshit Damani**, **Akshay Abhyankar, Priyesh Naik** developed and uploaded their awesome **Windows 8.1 Desktop Apps this year.**

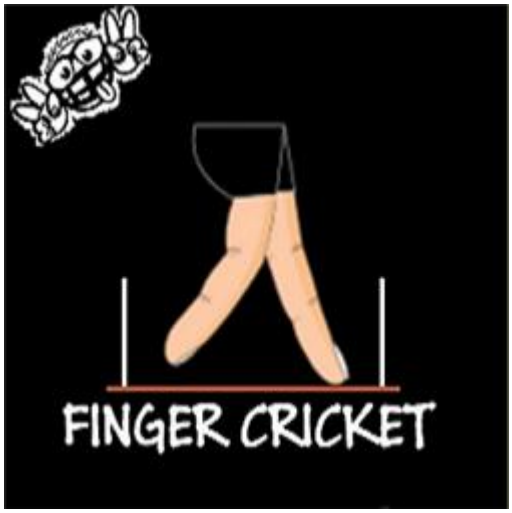



**Akshay Abhyankar (Left), Harshit Damani**

**( Right) And Their App (Finger Cricket).**

**Link:**

**http://apps.microsoft.com/windows/en-us/app/69843a52-4680-49f3-a994-77f4323df993?ocid=Apps_Search_WOL_en-us_search-main_search-results-from_search-finger-cricket_image_finger-cricket**




**Akshay Abhyankar** and **Harshit Damani** were recognized by **Microsoft** for successfully Developing and Uploading **Windows Application**. Congratulations.

Also **Priyesh Naik** of B. E. Computer Developed **Riddles 100** app and as well as uploaded his **Windows 8.1** desktop App to **Microsoft.**


## Link:

**1)http://apps.microsoft.com/windows/en-us/app/connect-driblets/94b930af-ba04-4321-a949-972e3cab6c7d**

**2)http://apps.microsoft.com/windows/en-us/app/riddles100/432ea019-faab-44ed-954e-c4192b15c97c.**

**** Harsh Patel** from SE Computer Engineering has done splendid work by designing a website for college's Technical-Fest(Techchase).

Please visit to see various Techchase events and their amazing realities at : **www.techchase.weebly.com**

## RECENT ACHIEVEMENTS OF COMPUTER ENGINEERING STUDENTS.

**Harshit Damani, Ashwini Bhoir and Akshay Abhyankar** has developed an **Android App** named **SMART CITY** for Human Welfare, which was proposed by our Prime Minister Shri Narendra Modi.

Smart-City, reflecting Municipal Corporation services for Human Welfare.

People visit municipal corporation offices or visits their websites to access their services.

But now-a-days people prefer use of mobile applications to access essential day to day services.

Thus, they have developed Android app that provide various Municipal Corporation services through mobile app.

Users can access various services from anywhere and anytime through the application they have developed.

Thus users/ citizens can easily interact with Municipal Corporation office.

**Various services offered by app are:**

1) Notifications

2) Active Tenders

3) Complaint and Feedback

4) Job Opportunities

5) Emergency Services.

6) Downloading various forms.

**Harshit Damani(Left), Ashwini Bhoir(Middle), Akshay Abhyankar(Right)** With Certificate showing their **1st place** for **Smart City app** in Project Exhibition NCRENB-15 held at Viva Institute of Technology.

## TOPPERS OF LAST SEMESTER

**B.E. Computer:**

**1st Rank –** Sagar Narkar With 80.62%

**2nd Rank –** Priyesh Naik with 77.60%

**T.E. Computer:**

**1st Rank –** Mukta Patkar With 9.04 SGPI

**2nd Rank –** Sonal Puradkar With 8.62 SGPI

**S.E. Computer:**

**1st Rank -** Sumit Mangela With 9.14 SGPI

- Dattaram Naik With 9.14 SGPI

**2nd Rank -** Tejasvi Bargode With 8.00 SGPI

---

** **National Conference on Role of Engineers in Nation Building "NCRENB 15"**, has been organized by Viva Institute Of Technolgy. Students and Teachers of our college as well as other colleges of each branch has presented papers in respective venues. Proceedings of NCRENB-15 are available. NCRENB was held on 4th and 5th Of March 2015 at Viva Institute Of Technology, Virar(E.)

**For more info please visit: http://www.viva-technology.org**