Vidyalankar Polytechnic

VP-Connect

Department of Electronics & Telecommunication Engineering

01st July 2016 to 31st Dec 2016

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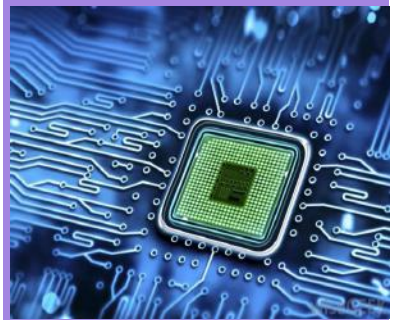


Institute Vision

To achieve excellence in imparting technical education so as to meet the professional and societal needs.

Institute Mission

- Developing technical skills by imparting knowledge and providing hands on experience.
- Creating an environment that nurtures ethics, leadership and team building.
- Providing industrial exposure for minimizing the gap between academics & industry

Program Vision

To produce Electronics and Telecommunication engineers capable of effectively using technical knowledge and interpersonal skills to benefit the industry and society.

Program Mission

- Providing state of the art facilities and conducive environment enabling the students to sustain the challenges in the field of Electronics and Telecommunication
- Educating the students to face the competitive world, develop leadership skills and to instill discipline and ethics.
- Promoting industry institute interaction.

Program Educational Objectives

- **PEO1.** Core Competence: To develop expertise amongst students to meet the needs of the employer by using mathematical foundation, electronic fundamentals and enable them to understand and solve engineering problems.
- **PEO2.** Professionalism: To inculcate life-long learning, codes of professional ethics and entrepreneurial mindset.
- **PEO3.** Conducive Learning Environment: To provide encouraging academic learning environment needed for a successful professional career so that students can become a noble soul and an asset to the society.

Program Specific Outcomes

- Test and maintain modern electronic tools and telecommunication systems by applying technical and conceptual knowledge.
- Select appropriate technologies of specified electronic and telecommunication systems based on engineering principles and professional ethics.
- Develop critical thinking with inquiring and flexible attitude towards modern trends in electronics and telecommunication technology.
- Function effectively as an individual or as a leader in multidisciplinary teams with an ability to communicate in both technical and professional environment and by engaging in lifelong learning. and entrepreneurship by engaging in lifelong learning

Program Outcomes (PO)

1. **Basic knowledge**: An ability to apply knowledge of basic mathematics, science and engineering to solve the engineering problems.
2. **Discipline knowledge**: An ability to Apply discipline specific knowledge to solve broadly defined Engineering problems.
3. **Experiments and practice**: An ability to plan and perform experiments and practices and to use the results to solve various engineering problems.
4. **Engineering Tools**: Apply the knowledge, techniques, skills, and modern tools with an understanding of limitations.
5. **The engineer and society**: Demonstrate knowledge to assess societal, health, safety, legal, cultural issues along with the consequent responsibilities relevant to engineering practice.
6. **Environment and sustainability**: Understand the impact of the engineering solutions in societal and environmental contexts to demonstrate the knowledge needed for sustainable development.
7. **Ethics**: Apply engineering principles with commitment to professional ethics and responsibilities for the development of society

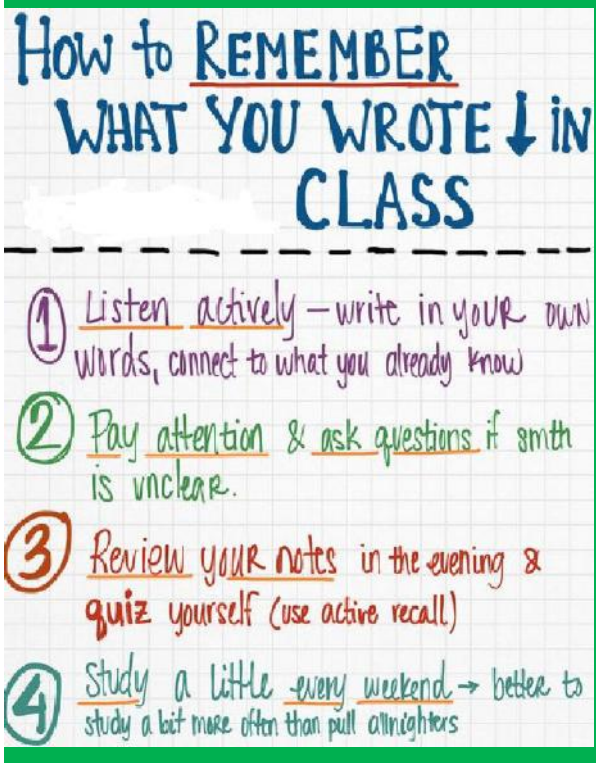
From H.O.D 's Desk

Dear All,

Releasing the next edition of **'VP Connect'** an e-news letter from the Department of Electronics and Telecommunication, Vidyalankar Polytechnic.

Hope you will continue contributing to the news letter to make it more informative and useful.

Do Remember!



VP's Shining Stars

Class Toppers (Summer 2016)			
Class	Name	Marls obtained	Percentage
Third Year			
EJ6G-A	Priyanka Gupta	721/800	90.13
EJ6G-B	Shailesh Thakur	720/800	90.00
EJ6G-C	Kumar Amalendu	722/800	90.25
Second Year			
EJ4G-A	Sawant Muktai	688/800	86.00
EJ4G-B	Parab Shushant	680/800	85.00
EJ4G-C	Sameer Sahu	692/800	86.50
Third Year			
EJ2G-A	Karnik Sneha	604/700	86.29
EJ2G-B	Falguni Waghela	561/700	80.14
EJ2G-C	Kota Ganesh	578/700	82.57

Students Participation

Students participated in the Circuit making competition at **Shah and Anchor Kutchhi Polytechnic** held on 17/9/2016.

Kashyap Meher	Abhisha Sawant
Gauravi M.	Nish Verma
Abhishek Shinde	Pragati Keni
Sanket Satam	Riya Jethva
Shashank Vetal	Vedant Shinde
Kaustubh Kelkar	Rahul Harer
Aditi Bhosale	

Students participated in the **Technical Quiz** competition at **Shah and Anchor Kutchhi Polytechnic** held on 17/9/2016.

Tanvi Patkar	Maithli Kale
Siddesh Nare	Makrand Jena
Omkar Shete	Shaurin Karnik
Suraj Patil	

students participated in the **State Level Poster Exhibition** competition at **Shri Bhagubhai Maftlal Polytechnic** held on

Kashyap Meher	Omkar Shete
Vedant Shinde	Sunny Ganger
Sushant Parab	Abhishek Shinde
Siddesh Nare	Kaustubh Kelkar
Suraj Patil	Sanket Satam
Sejal Sarlal	

TECHNOMANTRA - 2016

Vidyalankar Polytechnic for the 4th time in the row successfully organised state-level paper presentation – **Technomantra**
for Electronics & Telecommunication (EJ) Department.

The event aimed for the aspirants assembling from various diploma colleges across Maharashtra to participate with the zeal to put forward their research work and ideas with a high competitive spirit. The mission behind this was to encourage research among students.

The event received an overwhelming participation of 143 Technical papers from various technical fields like – Internet of Things, Big Data Analytics, Digital India, Robotics and Mechatronics etc.
Out of 143 papers; 42 papers were from places outside Mumbai like Pune, Nashik, Dhule. We selected 15 papers from Electronics & telecommunication Department.

Training on PCB Designing

A training programme for third year students on PCB designing using EAGLE software was organised by Final year project quality assurance committee and conducted by Prof. Shrikant Velankar from VIT.

The course curriculum was as follows:

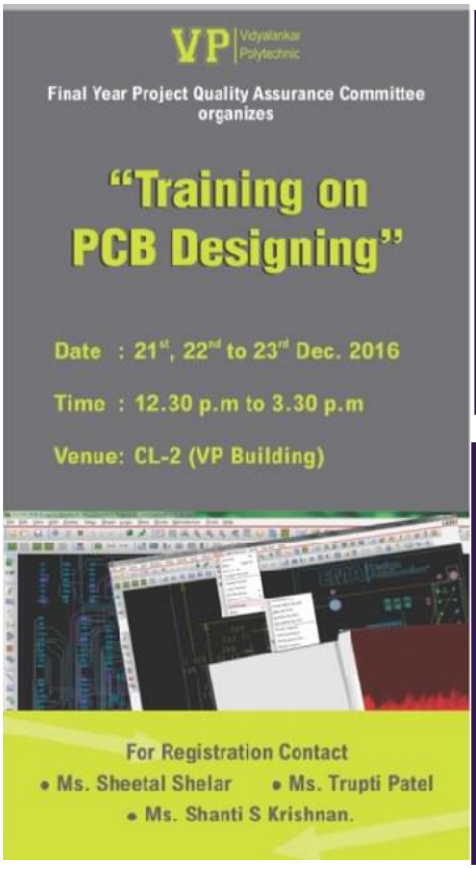
1) Introduction to EAGLE software.

2) Features of EAGLE software.

3) Designing single side PCB

4) Plotting of layout design & creating PDF documentation.

The purpose of this training is to inform the students about the usage of this software in industries and commercial market.



Industrial Visit at LokmatBhawan, MIDC, Mahape

Industry Institute Interaction Committee had organized a visit to Lokmat Bhawan, MIDC, Mahape on 24/12/2016 for the II semester students of Electronics & telecommunication Dept. The main aim of this activity was to make students aware of print media & its role in the process of education.

An introduction of the history of Lokmat Press was given by Mr.Rohan Ambre, incharge of the Mahape business circulation. He briefed the students about the various competitions faced by print media today against the electronic media & how newspapers have been able to still survive the competition.

The entire printing process was explained and students were able to see live printing of their supplementary paper. As automation has taken over the printing industry, students were able to identify the need of these integrated systems which has eliminated repetitive tasks, reduced errors and wastage thereby increasing productivity, efficiency and enhancing speed of the entire system.

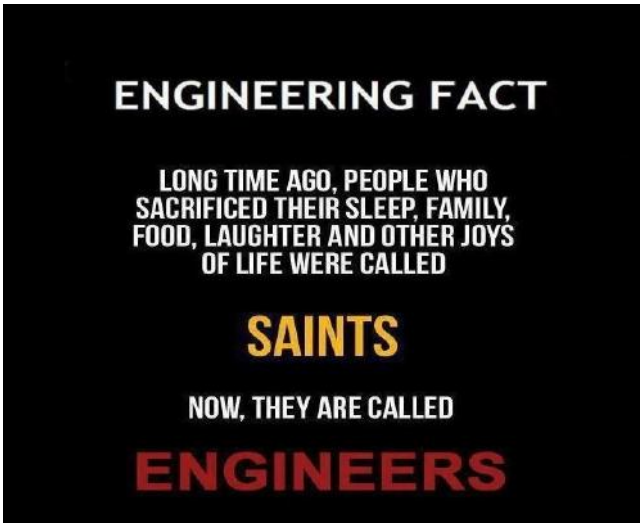
Visit to Akashwani Bhawan, Churchgate

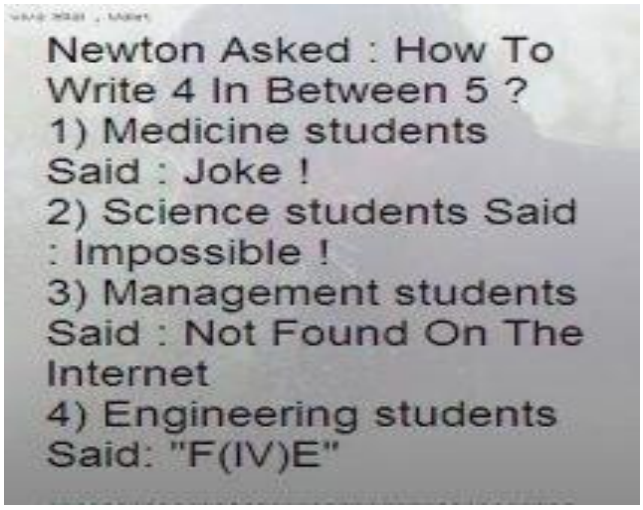
Industry Institute Interaction Committee had organized a visit to Akashwani Bhawan, Churchgate on 27th & 28th December 2016 for the VI semester students of Electronics & telecommunication Dept. The visit was a part of the MSBTE curriculum for the subject Advance Communication System.

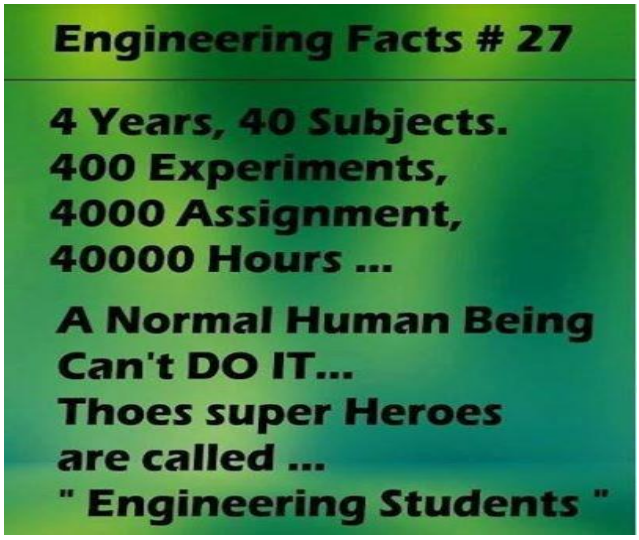
Akashwani radio station is divided into different sections mainly control room, playback section, studio and transmitting section. It is now laying thrust on modernization and technological up-gradation. Akashwani has recently switched over the transponder links to GSAT-10 satellite having C-band frequencies from 4.2 GHz (downlink) to 6.61 GHz (uplink). New digital microwave studio transmitter link equipment has also been installed.

They got an opportunity to meet playback singer Mr. Divya Kumar, RJ shagufta and flute master Mr. Kulkarni.

Fun Facts





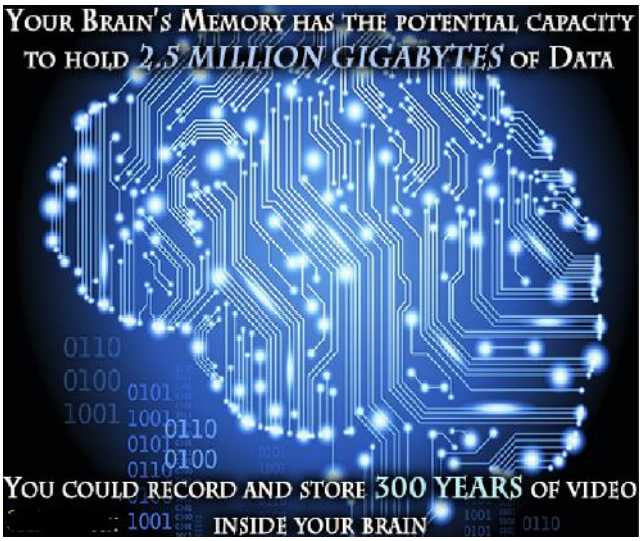


Amazing Facts

A 15-year old with a PC hacked NASA in 1999

Between August and October of 1999, Jonathan James used his skills as a hacker to intercept data from the Defense Threat Reduction Agency or DTRA (a division of the US Dept. Of Defense). He had access to over 3,000 messages, usernames and passwords of DTRA employees. He also obtained source code for the International Space Station.

NASA was forced to shut down computers for three weeks to fix the problem at an estimated cost of $41,000. He was ultimately sentenced when he was 16 – but it just goes to show what a 15-year old in South Florida, sitting with a computer and the right set of skills can do.



Latest Inventions

The Square

Jack Dorsey, the co-inventor of Twitter, is promoting his latest invention called the Square.

The square is a small plug-in attachment to your mobile phone that allows you to receive credit card payments.

The idea originated from Dorsey's friend Jim McKelvey who was unable to sell some glass work to a customer because he couldn't accept a particular card being used.

Accepting credit card payments for something you're selling isn't always easy, especially if you are mobile like a tradesman, delivery service or a vendor at a trade show.

This latest invention uses a small scanner that plugs into the audio input jack on a mobile device. It reads information on a credit card when it is swiped. The information is not stored on the device but is encrypted and sent over secure channels to banks. It basically makes any mobile phone a cash register for accepting card payments. As a payer, you receive a receipt via email that can be instantly accessed securely online. You can also use a text message to authorize payment in real time. Retailers can create a payer account for their customers which accelerates the payment process.

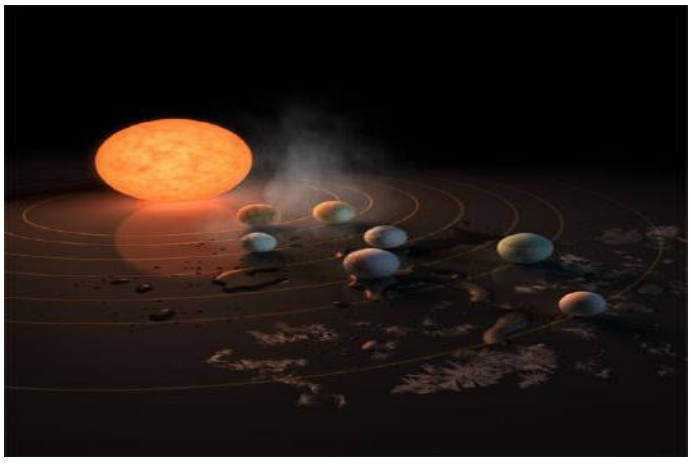
For example, a cardholder can assign a photo to their card so their photo will appear on the phone for visual identity confirmation. Mobile devices with touch screens will also allow you to sign for goods.

NASA-Telescope-Reveals-Largest-Batch-of-Earth-Size-Habitable-Zone-Planets-Around-Single-Star

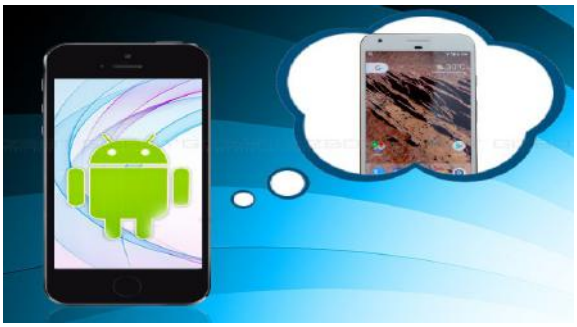
Using NASA's Spitzer Space Telescope, a team of astronomers has revealed the first known system of seven Earth-size planets around a single star. Three of these planets are firmly located in the habitable zone, the area around the parent star where a rocky planet is most likely to have liquid water.

The discovery sets a new record for greatest number of habitable-zone planets found around a single star outside our solar system. All of these seven planets could have liquid water – key to life as we know it – under the right atmospheric conditions, but the chances are highest with the three in the habitable zone.

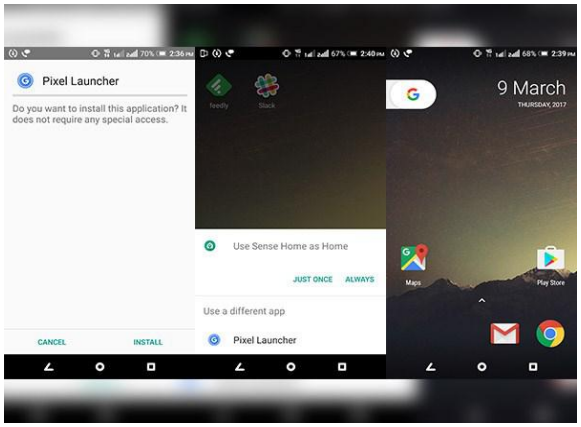
"This discovery could be a significant piece in the puzzle of finding habitable environments, places that are conducive to life," said Thomas Zurbuchen, associate administrator of the agency's Science Mission Directorate in Washington. "Answering the question 'are we alone' is a top science priority and finding so many planets like these for the first time in the habitable zone is a remarkable step forward toward that goal."



How to make any Android phone look like Google Pixel

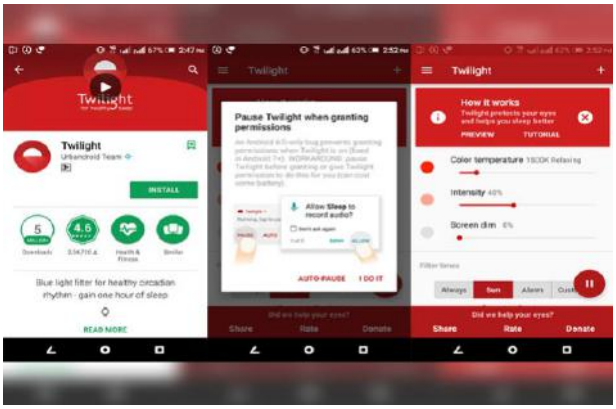


But let's not worry until we have some awesome apps in Play store which helps us modify our phone's to somewhat close to Google Pixel. Most of the important features of Pixel phone such as Pixel launchers, night mode etc., can be made available in your Android phone as well. Let us see how to do it feature-wise.



Pixel Launcher Pixel Launcher is the home screen built exclusively for Google Pixel devices. It is a very appealing launcher with few Google apps and icons in it. You can have this launcher on your phone by downloading and installing 'Pixel Launcher' app from APK Mirror. Once you install the app, tap on the home button of your device to launch this new app and select this launcher as your default device launcher.

Live wallpapers Pixel Phone is having new and redesigned wallpapers which are movable. This makes the screen look alive and interesting. To make your home screen look like this, you can make use of Live wallpapers on your Android phone. Download and install any Live wallpaper apk from Play store and open your Pixel launcher. Select the Wallpaper you wish to have and set it as Live Wallpaper.



Night Mode Google has given default night mode feature in its pixel phone. So, if you are a night person who uses smartphone late at night or having trouble falling asleep, then this feature comes to use. You can have this on your phone as well. Head to Play store and install 'Twilight' app in your device. Adjust the settings based on your requirement and happily use this feature without buying a new Pixel phone.

Navigation Bar To make your phone completely look like Pixel, You should also have the new navigation bar of Google. To have it, you have to download a paid app ' Pixbar' and install it on your phone. Customize the navigation bar buttons based on your interest.

Department of Electronics & Telecommunication

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