



College magazine of VBIT

ieee Stutalk

Voice of VBITians



Republic Day Special

Freedom in mind, Faith in words,
Pride in our heart, Memories in our soul,
Let's Salute the Nation

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Photo by- Abhinav Saxena III CSE-A

REPUBLIC *day*

If there is one place on the face of earth where all the dreams of living men have found a home from the very earliest days when man began the dream of existence, it is India!

-MARK TWAIN.

India is a place where morals and values are still held high inspite of the ever growing need for westernization. It is well-known for its varied culture, heritage, and festivals. One such occasion which brings the patriotic fervor of the people together is the "REPUBLIC DAY"

Republic Day is one of the greatest national celebrations observed throughout the country on January 26 every year. India became Republic on the 26th Jan, 1950. The country became a sovereign democratic republic with a written constitution and an elected parliament.

Today the term republic still most commonly means a system of government which derives its power from the people rather than from another basis, such as heredity and divine rights. This remains the primary definition of republic in most contexts.



College Buzz

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BRANCH UPDATES:

Department of EEE:

1. There was a guest lecture by Dr. B. BasavaRaju, the vice principle, Gitam University, on the topic **RECENT TRENDS IN POWER ELECTRONICS**.
2. **Dr. D. Padmavathi**, the HOD of EEE dept., VBIT, got her Ph.D in 'High Voltage Engineering', awarded from JNTUH.
3. Mr. G. Chandra Shekar, Associate Prof., EEE, published a paper "Logic based design of protection scheme for six phase system using detection of negative sequence currents", International Journal on Recent trends in Engineering & Technology, Vol.6, Nov-2011.
4. Mr. G. Chandra Shekar, Associate prof., EEE, published a paper on "A new approach to combined under voltage and directional over current protect scheme", 5th IEEE international conference on Advanced Computing and Communication technologies, ICACCT-2011, Nov-2011.
5. Dr. P. S. Subramanyam, Prof. in EEE dept., has published 5 papers in International journals.
6. M.V. Subramanyam, Associate prof. in EEE dept., presented 2 papers in International conference & 3 papers in National conference.

Department of Mechanical

1. Two new faculty members have been recruited.
2. Thermal engineering lab has been established with 8 experiments.
3. Wind mill is redesigned to cope up with higher wind loads and the erection process is on.
4. Mr. N. Rama Krishna, an eminent industrialist, has delivered a lecture on **SCOPE FOR MECHANICAL ENGINEERERS IN CORE SECTOR** on 6th January, 2012.

Department of ECE:

1. Incubation cell was started.
2. There was a guest lecture by L. Raju, Prof. at Stanley engineering College.

Department of CSE/IT:

1. In-house VBIT faculty guided projects, initiated 35 students from IT and 25 students from CSE.
2. 3 students received their M Tech degrees and 13 students are participating in Vivavoca.

Forum Activities:

Sports Updates:

1. B.Venkatesh of IVth CSE, got selected for JNTU Inter University football team, participated in the match held at JN University, Chennai.
2. M.Soumya of IIIrd CSE, got selected for JNTU, kabaddi (women) tournament held at keralaUniversity, Trivendram.

AVISHKAR

Vignana Bharathi Institute of Technology has carved a niche for itself in imparting value based technical education. As part of its lofty motive of kindling the scientific temper among the students it launches a series of tech fests sometimes exclusively for the first year engineering students to tap their potential. The college has a unique distinction of conducting such events under the IEEE banner. **AVISHKAR** is one such event hosted for students which showcases their interest in a series of tech related topics ranging from blue ray disc to computer driven cars. Avishkar the name itself denotes meaning loud and clear, the tag being "Engineering Inventions". The main objective is to bring the first year students out of the shell and provide them with a firsthand experience in facing the competition outside. VBIT is the only college in the whole of Asia-Pacific (R10) region, under IEEE to host this event exclusively for the first years. This fest gives way to interesting and innovative ideas that are budding inside a new techie. The goal is to provide a platform to exhibit paper presentation which showcases their updates with technology along with their presentation and communication skills.

3. Y. Narayana of IIIrd MECH, got selected for JNTU, Kabaddi(men) tournament held at Periyar University, Selem.
4. Rakesh (II MBA), Ranjith (I MBA), Naveen Reddy (I MBA) got selected for JNTU, Volley ball tournament held at Bharathiar University, Coimbatore.

Virinchi:

1. "FREAKZ UNITED", the dance group of VBIT, conducted auditions for new freaks on 7th January.
2. National Youth Fest Day conducted Kite festival and Rangoli competitions on 12th January, 2012 on the occasion of Swamy-Vivekananda's Birth Anniversary.

It is a well-known fact that, in the world of growing competition, soft-skills and readiness play a major role in a person's success. To encourage and cultivate these qualities in engineering students, the culture of presenting technical papers has been introduced in the form of technical fests, etc. But, as it has been observed, the First year students take a backdrop in participating in such activities because of their lack of exposure and the new environment that they are likely to face as freshmen. AVISHKAR realizes this aspect fully and hence focuses only on offering the student a unique opportunity to shed their inhibitions and put forward their talents and interests in front of a known audience. It helps them enhance their presentation skills, communication skills and managerial skills. In this way they're encouraged to get rid of their hidden stage-fear and come out as confident individuals.

IEEE-VBIT SB is the first one to introduce such an activity especially for the first year undergraduates so as to motivate, encourage and inspire them to be confident and bold professionals. The uniqueness of this activity has thereby won laurels that widely support and appreciate the cause and purpose of the activity.

Placement cell updates:

- An off campus drive was held by ITW signode where 5 students of EEE were placed
- G-HEALTH CARE drive was held where one student was placed
- A Marathon INDIAN ARMY recruitment drive was held for 3 days at VBIT under UES (Universal Employment scheme) from 18th to 20th of October. 35 colleges participated with over 900 applicants.
- A HCL placement drive was held in the month of December and 15 students were placed.
- 2 students from CSE department were placed in Oracle.
- 7 students from VBIT were placed in INFOSYS via an off campus drive held by JKC.
- A HDFC training placement program is being held at VBIT with 25 students participating.
- An online test for SYNTEL was held on 4th Jan and the final selection was held on 20th Jan and 13 students were placed.

IEEE UPDATES

1. Mr. Bharath Silagani was appointed as the Google Technology User Group community Manager for Hyderabad by Google India.
2. Mr. Bharath Silagani, Chairman IEEE-VBIT SB is elected as Section Student Representative 2012 for the IEEE-Hyderabad Section.
3. Mr. Bharath Silagani has won IEEE MGM award for year 2011.
4. Ex-chairman of IEEE-VBIT SB, Karthik Siddavaram was awarded with the prestigious "Richard E- Merwin Scholarship'12" (USD\$2500) by IEEE-Computer Society for his outstanding contributions to IEEE and IEEE CS.
5. Mr. Mohan Sameer and his team won the 1st Prize in a National level Video Contest organized by IEEE - Hyderabad Section, during INDICON 2011.
6. PES Student Chapter of IEEE-VBIT SB organized a Technical Debate competition for 2nd, 3rd and 4th year students on 4th November 2011.
7. PES Student Chapter of IEEE-VBIT SB organized a Technical Lecture on "Standards in Engineering" by Mr. N.S.S. Prasad (ISA President) and Mr. Sharad Karve (ISA Membership development head) on 19th November 2011.
8. PES Student Chapter of IEEE-VBIT SB is rewarded with 5000 INR by IEEE PES Chapter, Hyderabad section for its successful stand of conducting technical activities for year 2011.
9. WIE Affinity Group of IEEE VBIT SB organized its 3rd session of Star program at VBIT campus on 13th November 2011 where the Govt. school students of 9th and 10th standards are trained with the basics of computers and safe internet browsing.
10. IEEE -VBIT SB Membership Development team headed by T L N S Sravanthi carried out Membership drive on 10th, 11th and 12th of November for the 1st B.Tech students and a total of 106 members joined IEEE which is a notable achievement in the history of IEEE-VBIT SB.
11. Mr. M N V L Kashyap, Chairman IEEE computer Society student chapter VBIT SB is placed in Syntel and Oracle
12. Mr. Bhaskar Avinash Sravanam, vice chair of IEEE computer Society student chapter VBIT SB is placed in Syntel placement drive held at CVR College of Engineering.
13. Ms. TLNS. Sravanthi Membership development head for IEEE-VBIT SB has been placed in INFOSYS
14. Mr. R Surya Prabhakar, Treasurer of IEEE VBIT SB and Ms. K Prathyusha, Chairperson of WIE affinity group IEEE VBIT SB were placed in HCL placement drive held at VBIT.

Bionic eye attempts to restore vision.

Belonging to the community of engineers there is no barrier that we cannot conquer. If scientists give birth to ideas, then it is we engineers who put life into those ideas. Today, we have every tool in our hand. We certainly know the magic route to reach our goal i.e Science and Technology. This is creating a revolution in the field of medicine too.

There is no replacement for human sight. It is simply incomparable because of its capacity to see. Our life is full of pictures we daily see. Life without sight is dark.

How are we able to see??? For vision to occur, An image must be formed on the retina to stimulate its receptors (rods and cones). Resulting nerve impulses must be conducted to the visual areas of the cerebral cortex for interpretation.

But for the one who are not blessed with the vision, restoration of sight for the blind is no more a dream today. Bionic Eyes have made this true. There is hope for the blind in the form of Bionic Eyes. A **BIONIC EYE** is an experimental visual device which is intended to restore vision in those suffering from partial or total blindness.

The Bionic Eye system

Making a bionic eye is an extremely complex task. The process that makes the blind navigate the world starts with a pair of sunglasses, which holds a tiny video camera mounted in the bridge just above the nose. The camera captures an image and sends it down a wire to a visual processing unit (VPU) hanging on the patient's belt.

A Bionic-eye has:

A digital camera which is built into a pair of glasses, captures images and sends to a microchip. It also has a battery pack housed with the video processing unit. When the camera captures an image -- of, say, an apple-- the image is in the form of light and dark pixels. It sends this image to the video processor, which converts the apple-shaped pattern of pixels into a series of electrical pulses.

The processor sends these pulses to a radio transmitter on the glasses, which then transmits the pulses in radio form to a receiver implanted under the eye. The pulses are then sent to retinal implant.

When the pulses reach the retinal



implant, they excite the electrode array. The electrodes are stimulated in accordance with the encoded pattern of light and dark that represents the object. The electrical signals generated by the stimulated electrodes then travel as neural signals to the visual center of the brain by way of the normal pathways used by healthy eyes -- the optic nerves. The brain, in turn, interprets these signals as an apple and tells the subject, "You're seeing an apple."

It takes some training for subjects to actually see an object. At first, they see mostly light and dark spots. But after a while, they learn to interpret what the brain is showing them, and they eventually perceive that pattern of light and dark as an apple.

This technology can add life to their visionless eyes! Though there are a number of challenges to be faced before this technology reach them, it has however made THE DREAM..... COME TRUE..... Thanks to Science and Technology.

Touch Mouse

The new generation mouse.

There's no denying the evolution of electronic Muridae computer mice, that is. Through the years we've seen third buttons, scroll wheels, Bluetooth wirelessness, foldability and mobile track pads.

The touch mouse has more comfort than other mice. Gridded on the front half to indicate the location of the tiny sensors that turn multitouch gestures into cursor actions. Microsoft's BlueTrack technology lets it track more accurately than any other optical mouse.

Sweeping a single finger across the Touch Mouse scrolls the active window in the appropriate direction. Moving two fingers up or down maximizes or minimizes the active window, while going left or right snaps the window to the appropriate half of the screen. An upward sweep of the three fingers shows all open windows; a downward sweep shows the desktop.

Plus points:

- Multi-touch sensitive touchpad built into the top of the mouse
- Short and simple learning curve



- Truly ambidextrous design
- Productivity boost for power users

Drawbacks:

- Less than optimal grip areas
- Touch sensitive area can be a tad too sensitive
- Windows 7 only
- Only 1000 DPI sensitivity
- No customization of the touch commands
- Sluggish vertical scroll
- Its cost is 80\$.

Many, perhaps most, users will not care about the missing middle button, and as a way of controlling the size, shape, and location of the windows on the screen, Touch Mouse is another next step in the ongoing evolution Muridae family.

Virtual World, Real Education

Today, online education is one of the best ways for working adults to pursue higher education without sacrificing short term financial goals. apart from studying for degrees in your field which would help you advance

in your job, you may also obtain a degree in an unrelated subject which would be an extra advantage. the most widely studied subjects through online education are generally computer science related subjects. Unfortunately, if you want to study something that requires lab work, you may still need to enroll for course hours at a regular college. that said, you can still get a lot of degree requirements out of the way with online education

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Indian culture over western culture

What does culture mean?

CULTURE is the integrated pattern of human knowledge, belief and behavior that depends upon the capacity for symbolic thought and social learning.

Few countries in this world have ancient and diverse culture. Among which **INDIA** is one of them. It is the religions, festivals, rituals, artifacts, monuments, costumes, music and dance, language and culture which made our country famous around the globe. We are getting attracted to the western culture and forgetting our own mother culture whereas the western people are trying to follow our culture. We don't have to follow anybody. We have our own customs and values.

Even though we have accepted modern means of living and improved our lifestyle, our values and beliefs still remain unchanged. This is because all our ancient values and customs of our country are still alive and are deeply rooted in our hearts. For example, the people of

Indian origin living in Abroad celebrate the Indian festivals very grandly with all its significance.

Western culture can also be referred to as advanced culture. This is because its ideas and values promote the development and sustainment of advanced civilization. Even the Indian culture has influenced the western world. Though the Western culture has influenced almost every dimension of our society, the core religious traditions are still the same but the life style differences can be found. Hence we can say that western media has not affected the core traditions of Indian society but has changed life style and apparent characteristics of our society.

Whatever it may be, **INDIAN** culture has its own importance over any other cultures and customs. No matter people follow western culture, but the first importance is given to the mother land and its traditions. It is our duty to respect our culture.

-N.Harsha, III - CSE A



Some facts about India

1. India is one of only three countries that makes supercomputers (the U.S and Japan are the other two).
2. India is one of six countries that launch satellites.
3. The Bombay stock exchange lists more than 6,600 companies. Only the NYSE has more.
4. By volume of pills produced, the Indian pharmaceutical industry is the world's second largest after China.
5. India has the second largest community of software developers after the U.S.
6. India has the second largest network of paved highways, after the U.S.
7. India is the world's largest producer of milk, and among the top five producers of sugar, cotton, tea, coffee, spices, rubber, silk and fish.
8. 100 of the Fortune 500 companies have R&D facilities in India.
9. Two million people of Indian origin live in the U.S.
10. Indian-born Americans are among the most affluent and best educated of the recent immigrant groups in the U.S.
11. Thirty percent of the R&D researchers in American pharmaceutical companies are Indian Americans.
12. Nearly 49% of the high-tech startups in Silicon Valley and Washington D.C. are owned by Indians or Indian-Americans.
13. India sends more students to U.S colleges than any other country in the world.
14. India is the only country which neither invaded nor attacked any other country in the past 2000 years.

STUDENTS CORNER

PICTURE OF THE YEAR



This photo is the 1994 Pulitzer Prize winner taken by Kevin Carter during the Sudan famine. The photo depicts a child struggling towards a United Nations food camp a mile away. The Vulture is waiting for the child to die, no one knows what happened to the child. Kevin Carter committed suicide 3 months later due to depression.

COMING SOON..

AQUA BOTS .. THE Very first Under water robotic technical event in VBIT is this February. Get prepared to rekindle the flame of innovation inside you...!!

For more details contact
Ravi Kiran-9700820727



Art by: Mounika Ambadi
- 1st IT



INDIA

YOUNG AT HEART - ONLY 63
MOVING FAST TOWARDS MATURITY
MADE ADVANCES BUT WANT TO ACHIEVE THE MOST
RAFTAR PAKADNI TOH BAKI HAI DOST!
HAPPY REPUBLIC DAY!

IEEE-VBIT SB at IEEE Hyderabad Section



Mr. Chaitanya Kumar Setti
Section Student Representative-2010



Mr. Karthik Siddavaram
Section Student Representative-2011



Mr. Bharath Silagani
Section Student Representative-2012

A Section Student Representative (SSR) is the student representative of IEEE board of the respective section and also the incharge of all the IEEE Student members of the section (Andhra Pradesh).



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