

# Stutalk

Voice of VBITians



VIGNANA BHARATHI  
Institute of Technology



CELEBRATING 66<sup>th</sup>

# INDEPENDENCE DAY

JANA-GANA-MANA-ADHINAYAKA, JAYA HE BHARATHA-BHAGYA-VIDHATA,  
PUNJAB-SINDH-GUJARAT-MARATHA, DRAVIDA-UTKALA-BANGA  
VINDHYA-HIMACHALA-YAMUNA-GANGA, UCHCHALA-JALADHI-TARANGA,  
TAVA SHUBHA NAME JAGE, TAVA SUHBHA ASISA MAGE,  
GAHE TAVA JAYA GATHA, JANA-GANA-MANGALA-DAYAKA JAYA HE  
BHARATA-BHAGYA-VIDHATA  
JAYA HE, JAYA HE, JAYA HE, JAYA JAYA JAYA JAYA HE !





WHA

It gives me witnessed things in c and again. the "Brain" our vision student br by means student br Hyderabad opportunit years had I way VBIT h sincere stu Outstandir Darrel Cho also has se E.Merwin ! leadership also in real

Sincerely, Karthik Sid Chair Persc Section Stu Vice Chair, REM Schol. GOLD TracI kars@ieee.



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## Stutalk Coordinators - 2013

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3  Krishna Veena  
II CSE  
Literary Coordinator

4  John Benedict  
III ECE  
Technical Coordinator

5  Ajay Bharath  
III EEE  
Marketing Coordinator

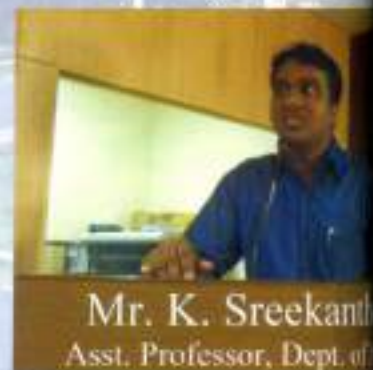
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Special thanks to  
Mr. D. K. M. Sharma  
Associate Prof. of English  
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Post your feed back to  
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# Happy Independence Day

**"Hindu religious literature, indeed all religious literature, is full of illustrations to prove the truth."**

India Independence Day, of course, is celebrated on August 15 every year to mark independence of India from British rule. India was born as a sovereign nation on 15 August 1947, at the stroke of midnight, after spending nearly 2 centuries under the rule of the Britishers.

The struggle for India's Independence began in 1857 with the Sepoy Mutiny in Meerut. Later, in the 20th century, the Indian National Congress and other political organizations, under the leadership of Mahatma Gandhi, launched a countrywide independence movement. Colonial powers were transferred to India on August 15, 1947.

The Constituent Assembly, to which power was to be transferred, met to celebrate India's independence at 11pm on August 14, 1947. India gained its liberty and became a free country at the stroke of midnight on August 15, 1947. It was then that the free India's first prime minister Pandit Jawaharlal Nehru gave his famous "Tryst with Destiny" speech. People across India are reminded of the meaning of this event - that it marked the start of a new era of deliverance from the British colonialism of more than 200 years.

Independence Day is the day when people in India pay homage to their leaders and those who fought for India's freedom in the past. The period leading up to Independence Day is a time when major government buildings are illuminated with strings of lights and the tricolor flutters from homes and other buildings. Broadcast, print and online media may have special contests, programs, and articles to promote the day. Movies about India's freedom fighters are also shown on television.

The president delivers the "Address to the Nation" on the eve of Independence Day. India's prime minister unfurls India's flag and makes a speech at the Red Fort in Old Delhi. Flag hoisting ceremonies and cultural programs are held in the state capitals and often involve many schools and organizations. Today, India is celebrating the 65<sup>th</sup> year of its independence. To have sustained a functioning democracy with all its flaws for more than 65 years, in a country of more than a billion people who speak scores of different languages, is something of a miracle. Gone are the days of associating India with snake charmers and elephants.

The country has prospered visibly. Despite the population growth, the per capita income has grown considerably in each of the past 15 years more than ever before. On the technological front, India launches its own satellites and recently sent chandrayaan, a state-of-the-art spacecraft, to the moon. It also boasts of a massive cinema industry, which every year churns out several of the world's most widely watched films. And yet it continues to be weighed down by bureaucracy and political corruption.

In terms of geographical spread, the Republic of India is the world's seventh largest country. It has the climatic extremes of the snow-clad Himalayas in the north, green, coastal Kerala in the south, the rain-fed forests of seven sisters in the north east, and the scorching sands of Rajasthan on its western flank. The single most important legacy of contemporary India is that it is the largest parliamentary democracy in the world.



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# R&D CENTER

CLIMBING TO THE TOP DEMANDS STRENGTH, WHETHER IT IS TO THE TOP OF MOUNT EVEREST OR TO THE TOP OF YOUR CAREER  
DREAMS IS NOT WHAT YOU SEE IN SLEEP. IT IS THE THING WHICH DOESN'T LET YOU SLEEP.



**MEET WITH  
DR. A. P. J. ABDUL KALAM**

My dream also came true when I met the legendary figure Prof. APJ Abdul Kalam, the President of India on 19th June 2013. I was struck to see his simplicity. Long back, I sent him expressing my desire to meet him. He remembered it and gave me an appointment two months when he visited Hyderabad. He visited Lakeview Guest house, Raj Bhavan. The question was: "WHAT CAN I DO FOR YOU?" There was no reply from me. I was silent for a moment. He then started asking about my personal life and discussed about the research work carried out by our group at Vignana Bharathi Institute of Technology (VBIT). Prof. Kalam has appreciated our work and took one of our publications "Study of tropical lower atmosphere to annual solar eclipse of 15 January, 2010 Gopa Dutta, M.C. Kumar, M. Venkat Ratnam, Salauddin Mohd. M.C. Ajay Kumar, P.V. Rao, K. Rahaman, H. 1364-6826, doi:10.1016/j.jastp.2011.04.023

was published in Elsevier journal. I felt great about the interest he had shown in my research work. He gave me some suggestions and asked me to pursue this high standard of research which will help me to reach the top of my career.

Salauddin Mohd.

## Dual frequency GPS –Receiver:

The center for reasearch and development of VBIT has gone into collaboration with National Atmospheric Research Laboratory (NARL), Gadanki to have a collabarative study on ionospheric parameters of satellite signals measured by GPS Reciever. The study will be conducted by R&D center and ECE Department of VBIT.



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A dual frequency receiver which operates in L1 and L2 bands (1.2to 1.5GHz frequency) with GPS antenna designed to operate at the required frequencies have been installed by NARL for campaign mode operation. The receiver estimates the distance between satellite and the center, which gives the estimation of ionospheric delay. The total electron content can be computed from the delay. water vapour content of the troposphere will also be estimated using the data. The delay of GOS signal will be estimated. The studies will help identifications of factors that delineate between stationary and drifting fossil bubbles in a given longitude sector and also provide ionospheric drifts required for navigation studies. It will also provide inputs applicability for GPS-Aided Geo Navigation (GAGAN) and satellite based navigation in India.

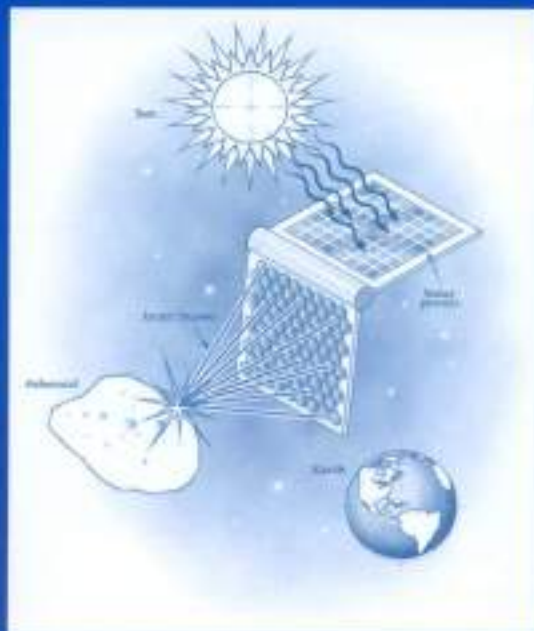


# Tech-Updates



## DE-STAR

DE-STAR is designed to vaporize or divert asteroids that threaten Earth. This isn't science fiction I build things that have to work in practice. DE-STAR stands for Directed Energy Solar Targeting of Asteroids and exploRation. It looks like an open matchbook with lasers on one flap and a photovoltaic panel for power from sunlight on the other. By synchronizing the laser beams, we can create a phased array, which produces a steerable 70-gigawatt beam. An onboard system receives orders on what to target. Our laser beam would then produce a spot about 100 feet in diameter on an asteroid that's as far away from the satellite as we are from the sun. The laser would raise an asteroid's surface temperature to thousands of degrees Celsius—hot enough that all known substances evaporate. In less than an hour, DE-STAR could have completely vaporized the asteroid that broke up over Russia this winter, if we had seen it coming. Plus, as the material evaporates, it creates a thrust in the opposite direction, comparable to the space shuttle's rocket booster. That means you could divert the asteroid by changing its orbit with a shorter laser blast.



## Google Glass

Google Glass (styled "GLASS") is a wearable computer with an optical head-mounted display (OHMD) that is being developed by Google in the Project Glass research and development project, with the mission of producing a mass-market ubiquitous computer. Google Glass displays information in a smartphone-like hands-free format, that can interact with the Internet via natural language voice commands. While the frames do not currently have lenses fitted to them, Google is considering partnerships with sunglass retailers such as Ray-Ban or Warby Parker, and may also open retail stores to allow customers to try on the device. The Explorer Edition cannot be used by people who wear prescription glasses, but Google has confirmed that Glass will eventually work with frames and lenses that match the wearer's prescription; the glasses will be modular and therefore possibly attachable to normal prescription glasses.



## Ubuntu EDGE

The Ubuntu Edge is a "high concept" smartphone announced by Canonical Ltd. on 22 July 2013. Canonical is seeking to crowdfund a production run of around 40,000 units through Indiegogo. It has the highest target of any crowdfunded project to date, \$32,000,000 over a one-month campaign. The Edge is not intended to go into mass production after the initial run, but rather to serve as a demonstration for new technologies for the industry. The Edge is designed as a hybrid device, which will function as a high-end smartphone (with either Ubuntu Touch or Android), or when used with a monitor, keyboard and mouse be able to operate as a conventional desktop PC running Ubuntu. The Ubuntu Edge will also support dual boot, and will run along with Android.



## Do you know?

Google has bought an average of 1 company per week since 2010!

The world is the great gymnasium where we come to make ourselves strong.



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# NBA

## ACCREDITATION

The National Board of Accreditation (NBA) was established for the purpose of performing evaluations of technical institutions and programmes according to specified norms and standards as recommended by AICTE.

The purpose of Accreditation by NBA is to promote and recognise excellence in technical education in colleges and universities - at both the undergraduate and post graduate levels.

### The Visit:

The three day visit of NBA team to VBIT was scheduled on 5th,6th & 7th of July,2013. A team comprising 9 members from the academia of pan India came to evaluate the college on the parameters which involved the basic steps of NBA Accreditation. The Day I i.e, 5th of July,2013, started with the Principal's presentation of the college to the team. Based on the SAR and the facts they extracted from the Principal's presentation they divided among themselves into various teams to visit the Departments applied for accreditation namely CSE,IT,ECE and EEE. The team listened to the presentations of the various Heads of Departments.



Based on the facts collected on the Day I , the departmental teams checked Infrastructure,Labs and the Teaching - learning process under various criteria on the Day II 6th of July, 2013. This day also had an interaction with stakeholders.





On 7th of July, 2013 the third day of the visit, the team gave their suggestions and feedback to enquire whether VBIT likes to continue for the accreditation. Being assertive with no second thought VBIT gave a nod.

### **Role of Stake holders:**

The involvement of stakeholders is exemplary in making the NBA visit a smooth process. Around 85 parents, 75 Alumni members and 20 corporate representatives were present during the interaction with the team on the second day i.e., 6th of July, 2013. We are optimistic about the report which makes the existing batches of the college to have the best of the market.



and strive at the same time to make the ideal as near as possible to the Truth.



# College Buzz



## SPORTS



VBIT secured 1st place in JNTUH Inter Collegiate Cricket Tournament conducted by Vignana Bharathi Institute of Technology, Aushapur (V), Ghatkesar (M), R.R.District from 4<sup>th</sup> to 10<sup>th</sup> March, 2013.



VBIT secured second place JNTUH Inter collegiate Central Zone Cricket tournament on 24<sup>th</sup> March, 2013.

## Computer Society IEEE - VBIT SB

IEEE - VBIT SB Computer Society chapter conducted a lecture entitled "How to publish a paper", in which the participants were given guidelines regarding research paper writing and how to publish it. The speaker for the event was Dr.Gopa Dutta, Professor & Director of Research and Development cell at VBIT.

Dr.P.Kousalya, H.O.D, Dept. of H&S, authored a book titled "PROBABILITY, STATISTICS & RANDOM PROCESSES" published by Pearson Education Publishers, Chennai. This book is useful for all branches of Engineering and MCA, P.G Students.

## PES IEEE - VBIT SB



PES IEEE VBIT SB has conducted a workshop on "SCILAB SOFTWARE" by Dr.P.S.Subramanyam, Professor, EEE Department on 2<sup>nd</sup> August, 2013.

## RECOGNITIONS



Mr.Karthik Siddawaram of CSE (2007-11 BATCH) received the Larry K. Wilson Student Activities award. This award is given to one person in Asia - Pacific region for significant and consistent contributions to Student Activities. This award is given by IEEE at Region 10 Gold / Student / WIE Congress in Hyderabad.

## Dept. of H&S

A Two day state level faculty development program was organised by MITRAMAHAS, Dept. of H&S on "Recent Trends in Humanities & Sciences for Building Professionalism in Students" which was held at Vignana Bharathi Institute of Technology, Ghatkesar on 13<sup>th</sup> & 14<sup>th</sup> August, 2013.



# Yahoo! Hack 2013



I happened to attend the Yahoo summer school at IISc Bangalore. This was the day when I met Mr. Cheliah, Manager Yahoo Labs, Bangalore who advised me to attend the Yahoo Hack day which was to be held on 13th, 14th July, 2013 Hyderabad. In the olden days hackers were considered to be a group of people who solved the most complex problems of the software world. A hacker was considered to be a computer genius but some hackers misused this power with them and started exploiting the computer world.

## What is a hack day ?

A hack day is a 24hour event where the developers work for 24 hours on the subject of their choice and come out with a potential product. Some of the best products that we see in the market are the products of the hack day.

## My experience at the "HACK DAY" :

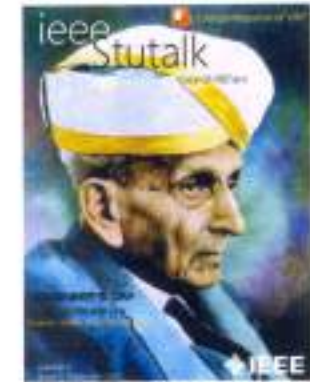
On 13th Morning I reached Westin Hyderabad Hotel, at IT Raheja Park Hi-Tech city. I was sitting at a table being shared by 3 other members who were complete strangers to me. We started conversing about our Ideas about the Hack day. We selected the best feasible Idea of building a train tracking application where the user can enter his PNR No. and gets the real time information about the previous station, next station the distance to the destination, expected delay weather forecast at the next station, emergency Nos at the station, service available at the station and you can book a cab or hotel at the station at a single click, faster than the Indian Railway website. It took us 24 hours of continuous hard work for analyzing data flow, creating back end code to develop the application. The most strenuous part of the job for us was to analyze a peice of code for 6 and half hour. Finally on 14th

afternoon at 1.00 p.m. we came out with a working product. The next crucial part of this event was the judgment. We were not tensed, as we never expected a prize because there were 268 best developers from all over India, who do the same work day and night and we were doing it for the first time. But we were very happy. To see all of the Yahoo crew come to congratulate us for the product. Because the previous night, the crew who were helping us were dumb struck with the piece of code we were working with. They had foreseen our product to be the best competent for the judgment. We were the best technical Hack at Yahoo! Hack day, 2013.

As an end piece to this experience of mine I would like to share with you an Incident in the bus when I met a man who asked me, "Which college are you from?" I replied "VBIT, Hyderabad" he said, "you are so lucky, your college is doing so much for you." I asked him "Which college are you from ?", he replied, to my astonishment "I am from VBIT, Hyderabad".

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Shahid Khan III CSE





and few more.....

We Thank you all for your support.