

Stutalk

Voice of VBITians



VIGNANA BHARATHI
Institute of Technology

National Science Day 2013



		IIIb	IVb	Vb	VIIb	VIIIb	
19	K	21	22	23	24	25	26
	Ca	Sc	Ti	V	Cr	Mn	Fe
37	Rb	39	40	41	42	43	44
	Sr	Y	Zr	Nb	Mo	Tc	Ru



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Freshers Special

National Science Day Special 2013

Stutalk Coordinators - 2013

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1863

2013

150th
Birth Anniversary of
Swami Vivekananda

Faculty Coordinator



Mr. N. Vamshi Krishna
Asst. Professor, Department Of CSE

Special thanks to
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H & S

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Head Coordinator



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Marketing Coordinator



3. John Benedict II ECE

Literary Coordinator



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6. Vamshi J Krishna II ECE

Technical Coordinator



7. Nikhilesh C S II CSE

Designing Coordinator



8. Sai Shanker II MECH

Technical Coordinator



Sir Chandrasekhara Venkata Rāman (7 November 1888 – November 1970) was an Indian physicist whose work was influential in the growth of science in India. He made enormous contributions to vibration, sound, musical instruments, ultrasonics, diffraction, photoelectricity, colloidal particles, X-ray diffraction, magnetron, dielectrics, and the celebrated "RAMAN" effect which fetched him the Noble Prize in 1930.

"Great advances in knowledge come through questioning the orthodox view" -Sir CV Raman

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The present era is the era of science. Science has undoubtedly done a great service to mankind. Indian Science has its origin from Vedas, which not only explored knowledge but also enriched us with values, morals and the essence of life. Indian scientists explored mysteries of nature that led to many discoveries being made in various parts of the world. In recent years it seems that importance of science in India has declined. Today's Indian education is more marks oriented rather than knowledge oriented. We are more engrossed in searching for ways to get marks rather than sources to gain knowledge. In the process of gaining this superficial knowledge, we are losing the essence of real science and also losing the spirit of being an Indian, and migrating abroad.

It is an astonishing fact, that more than half of the engineers in the United States of America are Indians. It isn't something we must be proud about; it is something that should actually make us ponder over our vulnerability towards western influence. Those dollar bills are diluting the Indian within us. It wouldn't be wrong saying that an engineer in India doesn't get due value here, but does so abroad, the reason being "You value the least, what you have the most". In this race of getting more value for an individual, Indians started migrating abroad and donating

their intelligence to the other countries. If this continues, India loses ground in the sciences and do not make the conscientious effort in research and development.

Indian system alone needs not to be blamed. Every Indian graduate needs to question his own credibility towards his motherland needs a strong shake up. Great Indian scientists like Sir C.V.Raman, Jagadish Chandra Bose, who are Indian born citizens, won noble Prize for their efforts in the field of science. It is obvious that even every individual can do it. It depends on self interest of gaining knowledge, the amount of faith we have in ourselves, that our caliber will fetch us our dreams which in turn will gain more value for us.

Innovation is the key to win the future. In an increasingly competitive global market it is the country that can harness innovation and technology that will be the most successful economically. Basically labor is something that can gain value one day and lose it the next but the possibilities and new markets created by science and invention are eternal. On the occasion of National Science Day, let us all take an oath for the scientific development of ourselves along with our country.

NATIONAL SCIENCE DAY 2013

*"One science only will one genius fit
So vast is art, so narrow human wit."*

Freshers Special

VIRTUAL REALITY

The term 'Virtual Reality' (VR) was initially coined by Jaron Lanier, founder of VPL Research (1989). Other related terms include 'Artificial Reality' (Myron Krueger, 1970s), 'Cyberspace' (William Gibson, 1984), and, more recently, 'Virtual Worlds' and 'Virtual Environments' (1990s). The relationship between our actions and their perceivable results is ruled by what we call the laws of nature. It is general understanding that our actions act upon real objects, which react according to the laws of nature, what then can be perceived. Virtual Reality Facilities (VRFs) simulate the action perception relationship in a physically correct manner but without involving real objects or real events. Just the same do mathematical models of nature (physical theories). So it stands to reason that VRFs can be considered as analog models of nature. If a physical theory is false its predictions cannot be verified. If a VRF were false we would have strange and unusual perceptions as if different nature (physical theories). So it stands to reason that VRFs can be considered as analog models of nature. If a physical theory is false its predictions cannot be verified. If a VRF were false we would have strange and unusual perceptions as if different laws of nature would be valid.

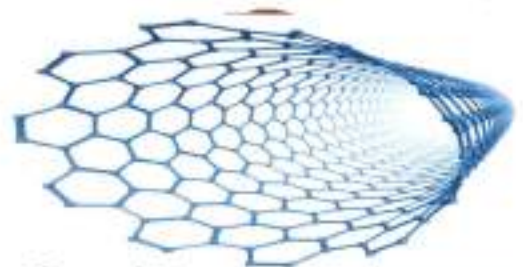


It is suggesting to say that we would fail to survive in nature when using a false mathematical as well as a false analog model. So, an analog model of nature can be useful even if it is not 'true'. Virtual Reality is an enabling technology that has wide applications in

training product design, etc. Virtual reality (VR) technology is being used to resolve problems in real-world situations. The National Aeronautics and Space Administration (NASA) is using VR to train astronauts to repair the Hubble Space Telescope. Virtual Reality is a human centered interface technology. Information Technology is growing rapidly. With the birth of high-resolution graphics, high-speed computing and user interaction devices Virtual Reality has emerged as a major new technology in the mid 1990's. Virtual Reality technology is currently used in a broad range of applications. The best known are games, movies, simulations, therapy. From a manufacturing standpoint, there are some attractive applications including training, education, collaborative work and learning. So far, virtual reality has mostly been a colossal disappointment.

B. Krishna Meena & N.S. Jaya Sree, I CSE-A

CARBON NANO-TUBE



The unique geometric properties of allotropes of carbon did not end with soccer shaped molecules, it was also discovered that carbon atoms can form long cylindrical tubes. These tubes were originally called "bucky tubes" but now are better known as carbon nanotubes or CNT for short. These molecules are shaped like a tube; imagine a sheet of graphite (graphene sheet) or chicken wire rolled into a tube. Carbon nanotubes have unique physical and chemical properties that chemists are trying to better understand through laboratory research. One of the physical properties of carbon nanotubes is that it's possible to make them only a single atomic layer thick. This means that they can be about 1/50,000 the thickness of a human hair. Because of the bonding characteristics of carbon atoms, the physical appearance of carbon nanotubes can often resemble rolled up chicken wire.

M. Avinash, IT-A

AVISHKAR 2K13 WINNERS

Avishkar is a unique paper presentation competition exclusively for first year B.Tech. students organized by IEEE-VBIT SB held during 24th & 26th January, 2013.

Winners of Avishkar 2K13 Intra round:

- | | |
|-------------------|---------|
| 1. V.V.N Girish | I ECE-C |
| 2. Akshita Gulati | I IT |

Winners of Avishkar 2K13 Inter round:

- | | |
|-------------------------------------|----------------------|
| 1. B.Krishna Veena
& N. Jayasree | First Prize
VBIT |
| 2. Prathyusha
& Kali krishna | Second Prize
MVSR |
| 3. Avinash M
& Amit Pandey | Third Prize
VBIT |



CARCAN 2012



The National Symposium "Current trends in Atmospheric Research including Communication and Navigation aspects (CARCAN-2012)" was held during 21-22 December, 2012 at Vignana Bharathi Institute of Technology (VBIT), Ghatkesar, Hyderabad. The Symposium was jointly conducted by the Research & Development Center, VBIT and the Department of Electronics & Communication Engineering, VBIT. The conference was inaugurated by Prof. B.M. Reddy, Honorable Scientist of National Geophysical Research Institute (NGRI), INSA (Hon) Scientist and Chairman, National ST Radar Committee, herewith. A special common session for both Atmospheric Sciences and Communication was held consisting of 4 talks delivered by very eminent scientists – Prof. P. Balaram Rao (NRSC, Hyderabad); Prof. Archana Bhattacharya (IIG, Mumbai); Prof. R. Sridharan (PRL, Ahmedabad) and Prof. D.S. Venkateswarlu (BHEL, Bangalore. A stock of the deliberations was taken in the concluding session which was attended by Dr. P. Sanjeeva Rao, Advisor, PAC in Atmospheric Sciences of Department of

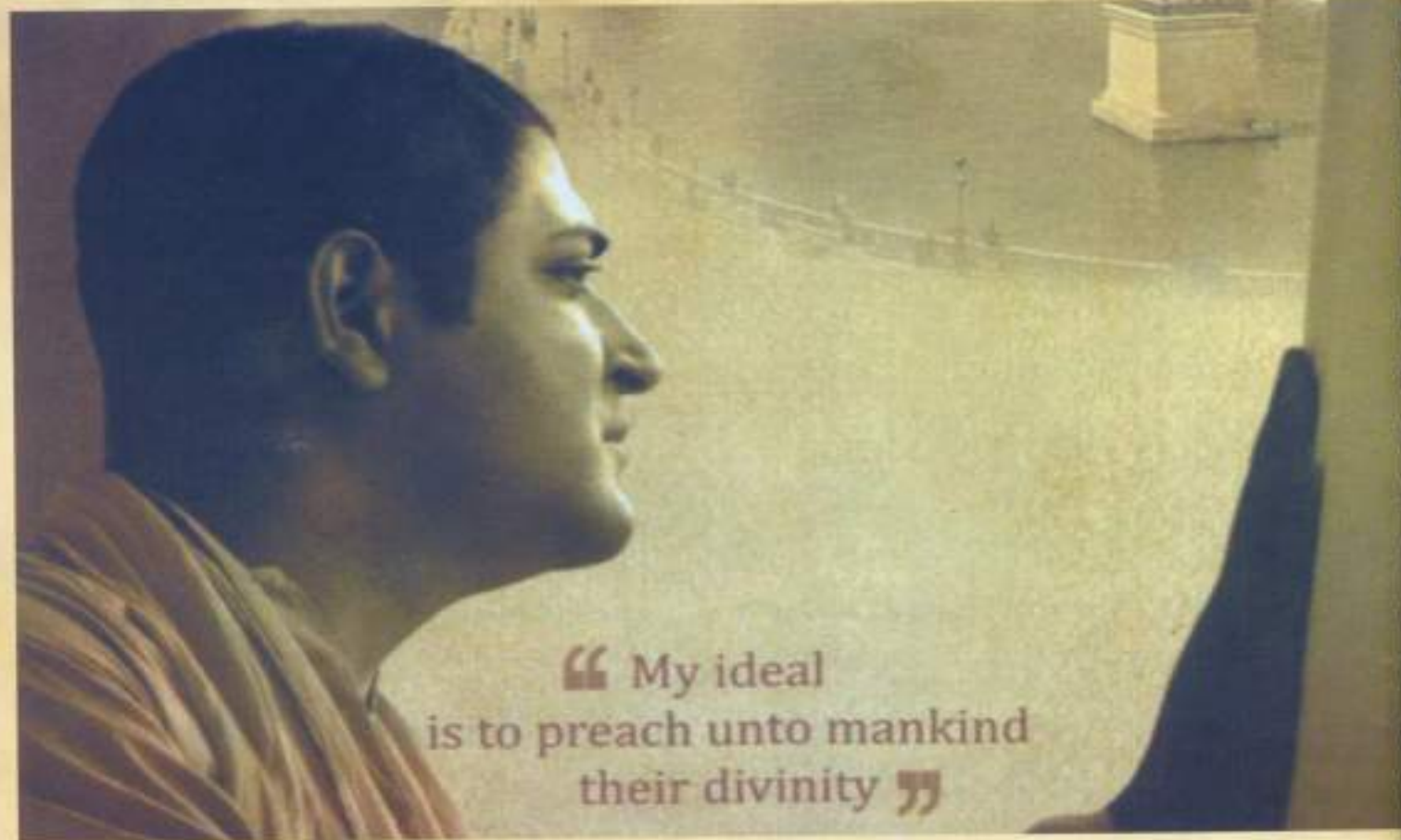
Science & Technology (DST). His valuable remarks on the success of CARCAN-2012 were encouraging. Some recommendations evolving from

CARCAN-2012 :

This section will deal with one area pertaining to atmospheric effects on GNSS systems. This topic is assuming an ever increasing importance in view of the exploding user community for GNSS services and the necessity of using a single frequency service for the majority of users. At the present juncture this assumes special significance because we in India are on the threshold of having our own service at the regional level. This also means that we have to collect, collate and present in a user friendly format all the necessary ionospheric data.

This data service will include

1. TEC morphology
2. Scintillation data
3. Space weather including magnetic storm-time effects on TEC
4. Tropospheric delay especially variability of water vapour



“ My ideal
is to preach unto mankind
their divinity ”

Swami Vivekananda a patriot-saint of modern India was born in Calcutta on 12 January, 1863. In his pre-monastic life he is known as Narendra Nath Datta, son of Viswanath Datta and Buvaneshwari.

As a boy, Narendra was very generous, loving and devoted, with a strange attraction for wandering Sadhus. He enjoyed worshipping of Lord Rama and Lord Krishna with his mother. By the time he graduated from Calcutta University, he had acquired a vast knowledge of different subjects, especially western philosophy and history.

One day in November 1881, Narendra went to meet Sri Ramakrishna who was staying at the Kali Temple in Dakshineswar. He straightaway asked the Master a question which he had put to several others but had received no satisfactory answer: "Sir, have you seen God?" Without a moment's hesitation, Sri Ramakrishna replied: "Yes, I have. I see Him as clearly as I see you, only in a much intenser sense." His father's untimely death in 1884 left Narendra's family bankrupt. Unable to find employment and facing poverty, Narendra found solace in Ramakrishna, and his visits to Dakshineswar increased. In time, Narendra accepted Ramakrishna as his guru.

In 1885, Ramakrishna developed throat cancer and he was transferred to Cossipore. Narendra and Ramakrishna's other disciples took care of him during his final days. During his final days, Sri Ramakrishna instilled in these young men the spirit of renunciation and brotherly love for one another. He gave specific instructions to Narendra about the formation of the new monastic order. In the early hours of 16 August, 1886 Sri Ramakrishna gave up his mortal body. After the Master's passing, in January 1887, Narendra and eight other disciples took formal monastic vows. Narendra now became Swami Vivekananda.

Glimpse of Swami Vivekananda



In the course of his wanderings, Swami Vivekananda heard about the World's Parliament of Religions to be held in Chicago in 1893. His friends and admirers in India wanted him to attend the Parliament. He too felt that the Parliament would provide the right forum to present his Master's message to the world, and so he decided to go to America. Another reason which prompted Swamiji to go to America was to seek financial help for his project of uplifting the masses.

Vivekananda visited several cities in Japan and some places in China and Canada route to the United States. He arrived at Chicago in July 1893 penniless - depending only on God's Grace. After the Parliament he began to receive the homage and hospitality of all the Americans. His powerful speech at the opening session of the Parliament brought him instant fame and acclaimed him as a great orator and the most ideal interpreter of India's wisdom. He instantly became very popular in America. After his stay of two years in America, he toured England and Europe for three months.

On returning to India in January 1897, Swami Vivekananda received enthusiastic welcome everywhere, he delivered a series of lectures in different parts of India, which created a great stir all over the country. The tremendous ovation he received on his return to India in no way took his mind away from his mission of bringing religion to the doors of the poorest. His aim was to awaken the masses by reviving Vedic religion, and to clean it off the dross and impurity that had clung to it for so many centuries.

On 1 May 1897, Swami Vivekananda founded a unique type of organization known as Ramakrishna Mission, in which monks and lay people would jointly undertake propagation of Practical Vedanta, and various forms of social service, such as running hospitals, schools, colleges, hostels, rural development centres etc, and conducting massive relief and rehabilitation work for the victims of earthquakes, cyclones and other calamities, in different parts of India and other countries.

Vivekananda left for the West for the second time in June 1899 despite his declining health. He was accompanied by Sister Nivedita and Swami Turiyananda. He spent a short time in England, and went on to the United States. During this visit, he established the Vedanta societies at San Francisco and New York. He also founded "Shanti Ashrama" at California. He attended the Congress of Religions in Paris and returned to Calcutta on 9 December 1900. He was unable to join the Congress of Religions in Japan due to deteriorating health. He, however, went for pilgrimages to Bodhgaya and Varanasi.

With declining health and ailments such as asthma, diabetes and chronic insomnia, on 4 July 1902, Swami Vivekananda attained Mahasamadhi. Six years of discipleship under Sri Ramakrishna had taken him to the realms of God-vision. Seven years of travelling in India had broadened his outlook on life. Nine years of a national and international career were all that were left for him; yet, how filled with glorious work those nine years were!

Vivekananda was a powerful orator and writer both in English and Bengali. Majority of his published works were compiled from lectures given around the world. Vivekananda was a singer and a poet, and composed many songs and poems including his favourite Kali the Mother. He blended humour in his teachings; his language was lucid.

Swami Vivekananda's gospel was one of hope, faith and strength. He never succumbed to despair, for he knew that India was capable of expansion and growth. His clarion call to the nation was: "Arise, Awake and stop not till the goal is reached."





Let Us Change

CALL FOR YOUTH

Youth's life is the most precious life. Supreme value of youth period is incalculable and indescribable. This wonderful period of the first state of the life will decide the nature of coming years. The world has put its faith in the youth. Youth must place self confidence in themselves, have strong and hopeful determination as well as good intentions in self-culture. This will truly bring supreme satisfaction and fulfillment not only to an individual, but also to all concerned.

In the last two centuries, no other individual has captured the hearts of the youth of India, the way Swami Vivekananda did. He believed that the future of the world depended on the youth of every generation. He blew energy into India which was indulging in self-loathe. In honour to works of Swami Vivekananda, India celebrates his birthday as National Youth Day every year on January 12. Swami Vivekananda wanted the youth of India to be strong and not to remain weak.

So my dear friends let us
"Arise, Awake and stop not till the goal is reached".

Swami Vivekananda was deeply moved to see the appalling poverty and backwardness of the masses. He was the first religious leader in India to understand and openly declare that the real cause of India's downfall was the neglect of the masses and lack of true leaders. It was in this context that Vivekananda said he needs young hearts and minds to lead India. But today's leaders are not up to the mark. He cited an example about this – "An English friend of mine, General Strong, was in India during the Sepoy Mutiny. He used to tell many stories about it. One day in course of conversation, I asked him how it was that the sepoys who had enough of guns, ammunition, and provisions at their disposal, and were also trained veterans, came to suffer such a defeat. He replied that the leaders among them, instead of advancing

He appeals to the youth of India saying "Men, men, these are wanted: everything else will be ready, but strong, vigorous, believing young men, sincere to the backbone, are wanted. A hundred such and the world becomes revolutionized. We should first learn from their lives and then some real work can be expected." He expressed his views on strong youth in the following words: "My faith is in the younger generation, the modern generation, out of them will come my workers. They will work out the whole problem, like lions. I have formulated the idea and have given my life to them. They will spread from centre to centre, until we have covered the whole of India."

Swami Vivekananda has lived to uplift the mankind; he wanted youth to shine and prosper. Uplift of the nation by sincere efforts was the desire of Swami Vivekanandaji. The idea behind the celebration of Sri Swami Vivekananda's birthday is to fulfill his dream!

forward, only kept shouting from a safe position in the rear, 'Fight on, brave lads', and so forth; but unless the commanding officer goes ahead and faces death, the rank and file will never fight with heart. 'A captain must sacrifice his head'. If you can lay down your life for a cause, then only you can be a leader. But we all want to be leaders without making necessary sacrifice. And the result is zero- nobody listens to us!" Come forth, youth of India, lead the country and take it to unreachable heights.

He said – "Let us all work hard, my brethren; this is no time for sleep. On our work depends the coming India's future. She is there ready waiting. Arise and awake. And see her seated here, on her eternal throne, rejuvenated, more glorious than she ever was, this motherland of ours."

S.R.Saket, I ECE

CALL FOR NATION

Youngest CEO's

An incredible achievement by two brothers, still in school, have launched their own mobile applications firm. Aniraj Kumaran is a CEO at just 10 year of age, while his 12 years old brother Shravan is the president of the company GoDimensions. The two brothers are the youngest chief executives of India and also youngest promoters of a company who are studying in Class VIII and Class VI at a Chennai school. When most adults have trouble understanding Java code, these two kids have used the code to build mobile applications. The duo has already designed four applications for the Apple store that have been downloaded more than 10,000 in over 20 countries. According to their web site GoDimensions.com, they create applications 'primarily in the area of education, games, lifestyle and convenience. Some of their popular applications include Alphabets Board, Color Palette and Catch Me Cop among others.



Youngest MCP and CCNA



Vishalini, a 11years old girl born in Tirunelveli, a small city of Tamil Nadu, to an electrician father, became the Microsoft Certified Professional and Cisco Certified Network Associate (CCNA). By scoring 90% in CCNA, Vishalini has broken the record of a Pakistani girl Arfa Karim Qadhwani. Apart from CCNA, she also became Oracle Certified Java Programmer(OCJP). Recently, she participated at an international seminar which was held at the National Institute of Technology Karnataka(NITK), Mangalore, where she was invited as a guest speaker. It wasn't the first time Vishalini addressed a strong tech gathering; several such offers and honors have become part of her daily routine. She lectures engineering students about the technical fundamentals and computer intricacies. She is not only a bright star of her family but also a gem for the whole country.

Youngest Web Designer

Sreelakshmi Suresh, born in 1998, hailing from Kozhikode, Kerala created her school's website when she was in 4th standard of Presentation Higher Secondary School. The website named <http://www.PresentationHSS.com> was launched on January 15, 2007 by Sri. Binoy Viswom (Minister of Kerala). Sreelakshmi Suresh is the youngest ever member of the Association of American Webmasters (AAW) and has also won the Gold Web Award by AAW. Till date, she has bagged about 26 National and International honors including the prestigious Global Internet Directories Gold Award. She is the Brand Ambassador of Info Group. Her school website portrays her talent and also states that she has designed a new website.



Young Physicist



A 16-year old kolkata boy, Shourayya Ray, who arrived in Germany 4 years ago, surprised the world by solving two fundamental particle dynamics theories which the physicists could calculate only by using powerful computers. Shourayya Ray creates history by cracking 350-Year-Old maths puzzles set by Sir Isaac Newton. Hundreds and thousands of geniuses have already tried their hands and brains on it and Shourayya Ray is the first person to have succeeded with flying colors. Scientists have been waited more than 350 years to calculate the flight path of a thrown ball and how it exactly hits and bounces of a wall.



CINE BRANCH ASSOCIATION

The Department of CSE&IT under CINE Branch association organized a workshop on struts framework on 16th February 2013 for the IV year CSE and IT students. The trainer for the workshop was Mr. Mantha Pavan Kumar, Software Engineer, Java, Sparity Soft Technologies. A total of 25 students and 5 faculty members attended the workshop.



The Department of CSE & IT under CINE Branch association Organized a Guest Lecture on "ENTERPRISE DATA INTEGRATION & ETL PRODUCTS" by Mr. Rajesh Bandaru. President,

CEO, BeanInfo INC., Newyork on 16th February 2013 . A total of 150 students and 10 faculty members attended the Lecture.

LITERACY MISSION

Legal Literacy Mission, II Metropolitan Court, Cyberabad has organized an Awareness Programme on various aspects of Law entitled "Ignorance of Law is not an Excuse" . This Programme was presided over by Magistrate D. Durga Prasad, II Metropolitan Court, Cyberabad. He was accompanied by his team of advocate members.

Advocate Members:

1. Mr. Subash Chandra Bose,
2. Ms. Rajitha.
3. Ms. Rani
4. Mr. N Satyanaryana Reddy
5. Ms. Sumanjali
6. Ms. Lakshmi

A total of 150 students attended the programme.



ACCELERO-BOTIX

This international workshop has been conducted by INCUBATION - Live Electronics VBIT is now the



Zonal Qualifying Center for Indo-US Robo League(IURL) 2013. The college has been awarded a certificate of appreciation from Technophilia system and

Robotics and Computer Institute of USA.

POWER COLLOQUIUM

PES,IEEE-VBIT SB in collaboration with EEE Department and PES/IAS/PELS Joint chapter, IEEE Hyderabad Section has successfully organized POWER COLLOQUIUM-"Recent Trends in Power Engineering" on 1st - 2nd February, 2013. A total of 135 students attended the colloquium.

MATLAB

Two Day Bridge course on Communication Simulation using MATLAB was organised by Dept. of ECE. Resource person Dr. Laxminaryana, O.U.Hyderabad held on 12th October,2012.

RECOGNITIONS

IEEE Student Branch of VBIT has received an appreciation certificate for consistency in organizing quality programs in the year 2011-12, 2012-2013. The award was given in Annual General Body meeting (AGM) of IEEE, Hyderabad Section which was conducted on 20-01-2013.



Sikta Suchismita, Aditya Rayarapu, Vishal Goud, Shubhangee Ojha, Akash Singh, Lokesh Kumar, Abhinav Saxena, Mounika M, Brahmendra, Aravind received Certificate of Appreciation for extending volunteering services to IEEE PES/IAS/PELS Joint Chapter, Hyderabad Section for the year 2012.

DYUTHI

NSS Unit (DYUTHI) of VBIT received a prestigious Governor's Award for organizing blood donation camps consistently from 2009 onwards) in college campus on 18th January, 2013.



PCB WORKSHOP

A two day workshop on PCB designing & Fabrication was organized by ECE branch Association & Phytech. 49 students participated in the event which was conducted on 23rd and 24th January, 2013

BLOOD DONATION CAMP

Blood donation camp was organized by Dyuthi-NSS unit of VBIT. 250 students donated the blood. The camp was organised in association with Rotary Club, Warangal.

CODEX

IEEE-VBIT Computer Society Chapter conducted CODEX, an inter college coding contest. The contest consisted of two rounds, the first round being an online round held for 5 days from 30th September to 4th October and a final onsite round on 6th October for the best 6 programmers.

Winners of CODEX

Sl. No	Name	Year	College	Award
I	Ravi Teja	II CSE	Academy Technological and Research Institute	Rs 100
II	Rishi Palani	IV CSE	Vignana Bharathi Institute of Technology	Rs 500

IEEE Computer Society Chapter, IEEE-VBIT SB, in collaboration with Avanathi IEEE SB and IEEE CS Hyderabad Section organized a two day web development training program on Drupal. The students had an hands-on experience in dynamic web application development and also knowledge of career based skills.

The training program was conducted on 27th & 28th December 2012 with 68 students participating from various colleges in and around Hyderabad. At the end of



training, students were given projects to work on for a month. The projects will be submitted to the trainers after a month and evaluated. On 23rd February 2013 there will be an MCQ test for all the participants, based on this and the projects the top 10 students will be provided with a merit certificate certified by IEEE Computer Society.

GANITH

GANITH, The Mathematics club (First time in twin cities) of Vignana Bharathi Institute of Technology, Ghatkesar organized a two day state level Symposium on Applications of Mathematics in Engineering & Sciences on 19th & 20th December to commemorate 125th Birth Anniversary of the Indian Genius Mathematician Srinivasa Ramanujan. The chief Guest for the Inaugural session on 19th December was Prof. D. Ramamurthy, Retired professor, Osmania University. The guest of honour for the program was Dr. S.V. Seshagiri rao, Retired professor of Mathematics, Osmania University. The chief guest for the valedictory program was Dr. A.Govardhan, Director of Evaluation, JNTU.





Abhinav Saxena IV CSE



Monica Ambadi II IT

Upcoming Events




CHETHANA AUDITORIUM