



VIGNANA BHARATHI
Institute of Technology

Approved by AICTE, and affiliated to JNTU

Where Quality Matters...

Stutalk

Voice of VBITians...

VIGNANA BHARATHI Institute

engineer
inside

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Special Thanks to

Mr. D. K. M. Sharma,
Associate Prof. of English
H&S Dept.

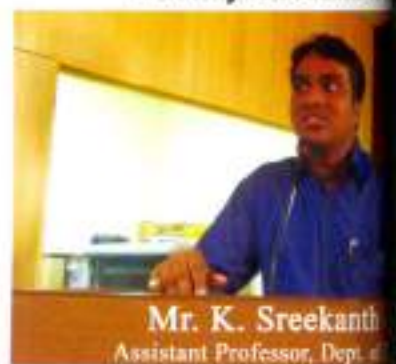
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Faculty Coordinator



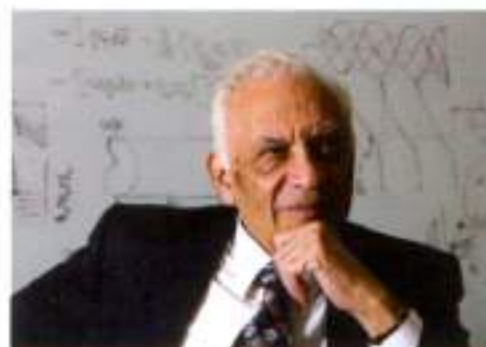
Mr. K. Sreekanth
Assistant Professor, Dept. of



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EDITORIAL

Guest



BOSE

Amar Gopal Bose (November 2, 1929 – July 12, 2011) was an Indian American academic and entrepreneur. An electrical engineer and sound engineer, he was a professor at the Massachusetts Institute of Technology (MIT) for 40 years. He was also the founder and chairman of Bose Corporation. In 2011, he donated a majority of his company to MIT in the form of non-voting shares to support and advance MIT's education and research.

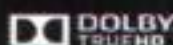
In 2007 he was listed in Forbes 400 as the 271st richest man in the world, with a net worth of \$1.8 billion.

DOLBY DIGITAL

Dr. Ray Dolby founded Dolby Laboratories, Inc. in 1965 and built an environment where scientists and engineers push the limits of sight and sound. Dr. Dolby's pioneering work continues to inspire technologies that fuel the imagination of the entertainment and communications industries and his legacy of innovation will be felt for decades to come.



Since the 1960s, Dolby Laboratories has been a leader in audio innovation. Beginning with Dolby® noise reduction, a form of audio compression and expansion that reduced background hiss in tape recording, Dolby Laboratories has developed many groundbreaking technologies, advancing the science of audio reproduction. Early on, Dolby decided that the company would manufacture professional products only, and license technologies that were appropriate for consumer applications. Since then, many Dolby innovations have set the bar for entertainment technology in both the professional and consumer markets. From the cinema to your living room, Dolby has transformed the entertainment experience. Today, Dolby technologies can be found in cinemas, professional recording studios, video games, laser discs, DVDs, mobile media, digital broadcast TV, digital cable, and satellite systems. The story of Dolby Laboratories is the story of advancement in entertainment technology.



Do you know ?

Microsoft has agreed a deal to buy Nokia's mobile phone business for 5.4bn (£4.6bn; \$7.2bn).



Google™



Microsoft



NOKIA



FACEBOOK LAUNCHES ADVANCED AI EFFORT TO FIND MEANING IN YOUR POSTS

A technique called deep learning could help Facebook understand its users and their data better.

Why it Matters ?

Facebook's piles of data on people's lives could allow it to push the boundaries of what can be done with the emerging AI technique known as deep learning.

Facebook is set to get an even better understanding of the 700 million people who share details of their personal lives using the social network each day.

A new research group within the company is working on an emerging and powerful approach to artificial intelligence known as deep learning, which uses simulated networks of brain cells to process data.

Applying this method to data shared on Facebook could allow for novel features, and perhaps boost the company's ad targeting. Deep learning has shown potential to enable software to do things such as work out the emotions or events described in text even if they aren't explicitly referenced, recognize objects in photos, and make sophisticated predictions about people's likely future behavior.



IPHONE 5S

The iPhone 5s is Apple's latest flagship smartphone. With a new "A7" processor, the latest iPhone brings 2x better CPU performance than the previous iPhone. It also introduces "Touch ID", Apple's implementation of a fingerprint sensor that lives right in the home button. It is also available in a new color, Gold, that will be available at launch.



SAMSUNG GALAXY GEAR

Samsung's Galaxy Gear, a new computing device worn like a wristwatch, is certain to pique much curiosity when it starts being worn in public. The intensely black rectangular screen and orange strap on the wrist of a Samsung executive immediately caught any eye



GTA V

The latest installment of its flagship Grand Theft Auto series has shattered video game sales records...again.

Given the overwhelming hype and news that Grand Theft Auto V hit \$800 million in its first 24 hours of sale, it's not too surprising to see Rockstar Games' latest title reach another astounding sales threshold. GTA V reached \$1 billion in retail sales only three days after its launch.



HARITH, THE ECO FEST

ON 16-09-2013

Eco Club of VBIT organized HARITH-The Eco fest on the occasion of world ozone day. The main theme of the fest is to create awareness among the students regarding the conservation of environment in which Ozone layer in stratosphere plays a key role by absorbing the ultra violet radiation reaching the earth. The main events in this fest were Green PPT, Green Click, Poster Designing, Creative Expo and Eco IQ. Many students participated in this eco fest from different colleges of twin cities. Dr.Gopa Dutta, Director of R&D VBIT delivered a key note address on the importance of ozone layer and the role of engineers in the conservation of environment. Dr.J.S.N.Murthy, Principal of VBIT, Dr.Jayant Kulkarni, Vice Principal of VBIT spoke about the importance of ozone day. Mr.K.Naresh kumar, Assistant Professor and faculty coordinator of Eco Club VBIT, Jivin.C.Jose, Charishma Reddy and Abhijit of III ECE and other student volunteers played an active role in the organisation of the fest.



DEPARTMENT OF CSE

CSE Department organized a three-day workshop for the students of CSE & IT Departments on the Emerging Technology in "CLOUD & HADOOP". On Day I three sessions were conducted by Vinod Kumar Yadav & Team from Kernel Sphere Technologies on Cloud Computing (Virtualisation – Cloud as IAAS). On Day II two sessions were conducted by Mrs. Ratnamala Paswan, Professor at Pune University on "Distributed Programming Framework (HADOOP)" as session I & Hands-on training on Integration of Big Data as Session II. On Day III two sessions were conducted by Mr. Srinivas Sadhu, Technical Officer, CDAC on "Recent Trends in Cloud Computing" as session I & a Hands-on session on "Sales Force Application Development". A total of 122 students of II, III & final B. Tech. students of CSE & IT Departments participated in the workshop and updated their programming knowledge and skills in these two areas.





DEPT. OF MECHANICAL IETE - VBIT SB

The Department of Mechanical Engg. has conducted "GRADUATION DAY" on 23.08.2013. Mr.A.Dayananda Reddy, Managing Director, Vasantha Tools and Crafts, Hyderabad delivered the key note address. He emphasized the need of the basics for a lucrative career. He also threw light on various opportunities available for Mechanical Engineering Graduates



IETE-VBIT SB conducted a guest lecture on CONTROL SYSTEM in view its importance and different applications in Engineering. The session started with an introductory speech by Dr.Jayanth Kulkarni about the successful innings of IETE VBIT SB and was followed by a speech by our Branch Advisor Mr.Vidya Sagar and introduction of the speaker by Mr.Brahma Reddy, HOD, Dept of ECE . The lecture was started by "Mr. RAVIKUMAR JATOTH"(senior member, IETE) on a serious note about the need of control system in engineering followed by a description and functions of it in various field.

STREET CAUSE - VBIT

An Awareness Drive was conducted on 06-09-2013 in the VBIT Campus where all the students and faculty members took a pledge that they would use Clay Ganesha Idols. Signatures and hand prints of the students and faculty members were collected as they extended their support for Eco-friendly Ganesha.

DEPARTMENT OF IT

A one day workshop on Application Quality testing using QTP 11.0" was organized by department of Information Technology on 21st September,2013. A total of 140 students participated in the workshop. The chief guest of the event was Smt. M. Santhoshini Reddy, Team lead, Bank of America Corporation Pvt. Ltd.

DEPARTMENT OF CIVIL 14-09-2013

"A One-Day Workshop on Total Station" was organized by the Department of Civil Engineering in association with Indian Institute of Surveying and Mapping & Survey of India for III B.Tech. Civil Engg students.

DEPARTMENT OF EEE

On the eve of engineers day 16-09-2013, the EEE branch association ELECROKZ has released its magazine ELECVOICE which contains the articles given by faculty and students of EEE Dept. This was followed by a guest lecture and industrial visit. The guest lecture was by Dr. K.B. RAJU on DC Machines for II year EEE and industrial visit to Power Grid at Ghanpur, Ghatkesar for III year & IV year EEE students.

DEPARTMENT OF MBA 14-09-2013

A Two-Day Workshop on Revised MBA Syllabus framed by JNTUH was conducted by the Department of MBA. The objective of the workshop was to create awareness among the faculty members teaching MBA subjects in various colleges regarding the strategies to be adopted in dealing with various topics in the revised syllabus. Dr. Aryasri, AR., Director, SMS, JNTU, Hyderabad delivered the keynote address while V.Gangadhar, Director, Srinidhi & Former Vice Chancellor of Mahatma Gandhi university graced the introductory ceremony as the chief guest.



project: INNOVATE

Educate, Participate, Collaborate



ONLINE EAMCET DESK

Objective:

To create an application help desk for users aiming for EAMCET by evaluating their rank and also estimate probable list of colleges (Mock counseling) where they can be admitted based on their input at

Abstract:

Engineering Agricultural and Medical Common Entrance Test, commonly called as EAMCET, is an examination required for admission to the Engineering and Medical colleges in the state of Andhra Pradesh. EAMCET Rank Estimator (EAMCET Rank Predictor) is a tool that gives the user an opportunity to predict their E Rank for both Engineering and Medical streams, well in advance before the official ranks come out. The tool generates a range of ranks. Once the user predicts the probable rank using the rank estimator, it would be up to the user to decide whether to opt for a management quota seat or wait for the counseling with the help of the EAMCET Counseling.

Scope/Applications:

Estimate the EAMCET Rank based on IPE & entrance exam score. Helps to predict aspirant probable details based on entered rank.

Lakshita Gulati

Bhavana Ulipi

Anusha

E-HEALTHCARE ADVISOR

Introduction:

Skills Management enables managers to define and track career paths for their employees. The proposed system automates the skill management process across the enterprise and allows easy online maintenance of employee skills. The employees themselves gain from identifying and understanding their own strengths and weaknesses, being able to set personal goals, and to understand the value they bring to the organization.

Objective:

A skills management system can be seen as a part of an organizational memory information system, which gives the ability to store dispersed and unstructured corporate knowledge. This facilitates a company's learning policy to meet the business need.

The following are the Key Objectives:

- The planned release will maintain only skills and not their levels (e.g. expert, advance, etc.) to reduce development time.
- There is no approval workflow planned for this release. Examples of possible workflows are skill update by employee and approval by supervisor or approval driven training enrolment by the employee.

Conclusion:

The proposed web-based application, SKIM will be accessed by the employees to manage skills, gap analysis and scheduling training programmes on an on-going basis, developing the skill levels both the employees and the organization as a whole.

D.Mounica

B. H. Har



INTERACTIVE LEARNING SYSTEM

Abstract:

Interactive learning system will use latest spatial gesture/ motion sensing technology to bring interactive learning into the classroom. The project aims at providing teachers the ability to use their hands, arms, fingers, pointers to skim through a presentation in the class thus removing the mouse and keyboard from the teaching process.

Existing System :

During the initial phase of the project. we will create working proof of concept exploring the Leap Motion device which assist in gesture recognition in spacial co-ordinates system. For this, we will develop a simple pin ball game which identify the different gestures, hand movements, finger movements and arm movements. The final outcome will be where the user will be able to play the conventional pin ball game without using a mouse / keyboard instead using free hand movement.

Proposed System :

Once the proof of concept is completed we intend to apply the learning / understanding in enabling the teacher to interactively use the system to conduct his classes. This involves:

- *Controlling a powerpoint presentation using gestures
- *Use common tools such as pen, stick or any pointed object to do the same he would with his hand.

Harshitha Venna

Sravan Reddy Marpu

Siva Chowdhary Alapati

FOUR QUADRANT CHOPPER CONTROL OF DC MOTOR

Abstract :

Automation and precise control have become necessities in most industries. By incorporating automation in processes, industries enjoy greater quality, increased production and control and decreased costs and labour. The need for controlling motors has been a pressing one as there are numerous applications that run on motors. Also, the need to incorporate several features in a single machine requires that we are able to run a particular motor at several speeds and in several different modes. Prior to the development of Power Electronic devices and the Micro Controller, it was very difficult to manage the variable speed in any application. However, nowadays, the long and cumbersome set up required to achieve the control has been transformed into few power devices and a microcontroller. Reliability and efficiency have also increased and such a process is aptly suited for the stringent demands of today's industries.

DC Motors provide high starting torque and can be used over a wide range of applications. The speed control methods of DC Motors are much simpler than those of AC Motors, in addition to this, DC Motors are also less expensive. The conventional approach for speed control is the phase control method but this method has been discarded because it generates too many harmonics and has lower power factor at decreased speeds. Therefore, the microcontroller based IGBT switching technique is employed.

Pulse Width Modulation technique is also employed to control the speed of the motor through duty cycle variations.

Mounika Molagara

R.Gnanendra Reddy

P.Sai Krishna Pratap



RECOGNITION



Ravi Kiran of IV CSE has won the first prize for the Student photo contest at the IEEE GHTC South Asia Satellite Conference.



Mr. Prashanth Akundi of IV CSE, has been selected as the chief-editor of ece india (An E-magazine established with the support of Aam Admi Party). We wish him well in his future endeavors.



Dr. C. R. N. Sarma (Director of Academics) for Outstanding Branch Counselor and Advisor Award for the year 2013 from Asia Pacific Region 10.

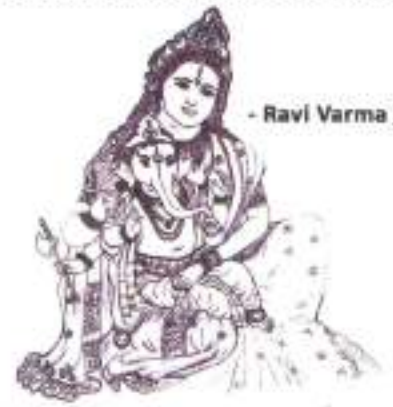


Lakshita Gulati for winning the first prize in the "Code Marathon" organised by IEEE Women in Computing



Vamsi Krishna J Of 3rd ECE of IEEE VBIT Student Branch got selected as IEEE Day Brand Ambassador of IEEE Hyderabad Section for the year 2013.

ART BY STUDENTS



- Ravi Varma , III EEE



- Sunanda, III EEE



Pride

The Fact Finding Committee of JNTUH that visited all the colleges for inspecting facilities offered and infrastructure provided, has released the report to the students' view of the counseling for selecting colleges and exercising their web options. VIGNAN BHARATHI INSTITUTE OF TECHNOLOGY (VBIT), GHATKESAR, is ranked @ 4th Place among JNTUH affiliated colleges in terms of Qualified and Ratified Faculty Members for the year 2013-14 which is an outstanding achievement.

For more details log on to following Website: <https://www.jntuhaac.com/>

College Life

Only 6 more months to go and then it's all over! Unbelievable!

'College life' is that phase in one's life when one learns the most important lessons of his/her life. It is for the first time in college when an individual is left to himself to make his own decisions. Undescribable are the joys of college life. College students are full of life and very enthusiastic. We are smart and dashing. A beautiful fountain pen and a costly wrist watch are a must have. There is no pressure of work, no threat of caning, and no dread of the teachers.

My college life has been quite similar. The thought of leaving college revives all the beautiful memories that I have spent here. My friends and faculty, the atmosphere are all together incomparable. Every moment here is close to my heart and has a special place. Be it the first competition 'AVISHKAR' I participated, to the events I organized for my juniors. Every interaction with people around helped me gain vision and knowledge. The perfect guidance from the faculty and ever encouraging friends help me gain huge success in every path of my student life. Overall college is my second home which I adore.

Looking back, I would miss each and every part of my college life. I wish I could extend my college life to a few more years. I advise all my lovely juniors to enjoy every moment and have fun to the core, because my dears college time once gone cannot be relived!



Akshita Gulati

VIT



MY JOURNEY AT VBIT .

Any times it happens that thoughts come to your mind and you leave them abrupt, feeling that you are not capable of realizing the power of your thoughts.

When I joined VBIT I was excited to know that the institution is adorned with lecturers with numerous publications in national and international journals to their credit. I told to myself that I was at the right place. I never missed a chance to ask a question to my teacher. I realized in a period of time that our college is far better than many other colleges in Hyderabad because the kind of motivation we get here is wonderful. Hence, my continuous participation and the adventurous efforts took me to many colleges in Hyderabad and to other big events like the yahoo summer school at IISC Bangalore. I won a DSLR camera lens worth 1.1 lakh, as a prize .I qualified to attend the yahoo hack day the biggest hack event in India, held at Hyderabad and there (my team) won the best technical hack award, the prize was an Ipad-4 worth Rs. 52000/- . We (vbit5) had the opportunity to participate in manthan a national event and got selected in the top 1400 teams across India to attend the grand culmination going to be held in Delhi On 2nd October ,2013.

This was not a luck by chance .There was a huge effort behind it .whenever I came to know about an event I would apply for it. I would spend sleepless nights thinking about the event and do lot of research before going to the event. Winning the event was never a criterion. The people I met at the events and the exposure that I got through the events was incredible

My suggestion to all my juniors who are now a part of VBIT is that whenever you have an idea just right it down and do pass it to someone, discuss it and try to improve that idea. It is happy news at VBIT that an entrepreneur cell in collaboration with IIT, Bombay has been set up which would be a strong reform for all the adventure seeking and to build your innovative, virtual ideas into reality.

About Manthan and our contribution to it .

India is known worldwide to be a country with a strong youth power. But it lacks a credible platform through which the youth can have their ideas disseminated across the political establishment. Realizing the need to fill this gap, Citizens for Accountable Governance (CAG), have decided to engage the youth of India in a nationwide movement – "Manthan". CAG intends to reach out to more than 50% of the country's college going population. The movement aims to 'churn out' the most innovative solutions for the 14 problems being faced by the society to be included in the political agenda for 2014 general elections. 18,789 students signed up for Manthan, out of which 8750 have submitted their ideas. We, the VBIT 5, got shortlisted in top 1400 teams across the country to attend the Grand Culmination Event in Thyagaraj Sports Complex, New Delhi on 2nd October 2013 to witness some of the great political leaders of our country and contribute our ideas.

The problem we thought is the most complex in our country is ensuring timely justice as we are familiar to a quotation that justice delayed is justice denied. We submitted a power point presentation stating our innovative ideas on how to solve the problem faced in our country . so do visit <http://www.indiancag.org/manthan/entry/vbit5>.

Abid khan



WHAT I LEARNT FROM IEEE - VBIT SB

It gives me great pleasure and I take pride in writing this for the student branch which I had been a part of for 4 years. I have witnessed the Student Branch growing from strength to strength in my 4 years span at my college (VBIT). The SB was at centre things in college. It set a tone; it was asking people to be ambitious, smart, enterprising, throwing challenges at its members time and again. The best part is members accepted the same and overcame it with ease and grace. As a fresher at college I found IEEE the "Brain" behind the college, that's because that SB attracted smart people in the college and yes of course it was backed up by our visionary professors who nurtured young talent. There was logic and reasoning behind every move that has been taken in student branch and this had been ensured by our professors. The student branch started to develop interest among all the students by means of engaging them with weekly activities, guest lecturers, Hands - On sessions, Quizzes etc. With such an activity rate the student branch was able to quickly expand its activities by collaborating with fellow student branches and interacting with the Hyderabad section for its assistance and guidance. This active interaction with the section opened doors to volunteer opportunities at the section level. VBIT was ready to seize this opportunity. It was evident as VBIT office bearers of 3 consecutive years had been chosen as the IEEE Hyderabad Section Student Representative for 3 consecutive years (2010, 2011, and 2012). By the way VBIT had established strong relations with section most importantly it was also identified as one of the promising, hardworking and sincere student branches in the section. This was proven again when VBIT had bagged the Vibrant Student Branch award and the Outstanding Student Branch Award at the Hyderabad Section level. It went on to build upon this by securing the GOLD prize Darrel Chong student Activity Award. The student branch not only boasts about performance of the Student Branch as a whole but also has some of its student members bagging Scholarships at international level. Two of its student members won the Richard E. Merwin Scholarship awarded by IEEE Computer Society. Its student members also went on to serve at some of the strategic IEEE leadership levels. In short, I would like to conclude by saying that Yes, it was a true learning experience not confined to the classroom also in real time scenario (off the class).

Sincerely,
 Karthik Siddavaram
 Chair Person, VBIT SB 2010
 Section Student Representative, IEEE Hyderabad Section 2011
 Vice Chair, Collaboration Platform R10 SAC India Team 2012
 REM Scholarship Awardee 2012, Student Ambassador Computer Society 2013
 GOLD Track Chair, R10 Congress 2013
 kars@ieee.org



UPCOMING EVENTS



WORKSHOPS GUEST LECTURES STUTAL