VISHNU INSTITUTE OF TECHNOLOGY
BHIMAVARAM
Vishnu Institute of Technology

Vishnu Institute of Technology, the scion of Shri Vishnu Educational Society was established in 2008 and is currently the eleventh educational institution to disseminate education under the aegis of this society. Nascent that it is, it combines in its matrix the lofty idealism of its Founder Chairman the Late Padmabhushan Dr. B. V. Raju, a distinguished industrialist, philanthropist and an eminent educationalist; the experience and vigour provided by the Chairman Sri K.V. Vishnu Raju, a man of holistic vision and his team comprising dexterous administrators, reputed academicians and brilliant line of students. They constantly strive to make the institution join the ranks of prestigious technical institutions.

Campus
The Campus, sprawling over 100 acres, is located in the verdant atmosphere of Vishnupur in Bhimavaram. It is in the very vicinity of the town and is well connected by road. VISHNU also provides hostel facilities to the students who opt for a residential mode of education. The hostels are constantly updated and provide an atmosphere conducive to pursue education.

Hands on Experience
To make the instruction in VISHNU more practical-oriented, special focus is on hands on experience. The Assistive Technologies Lab run in collaboration with the University of U Mass, USA helps students to combine technology with a humanistic outlook. Gadgets for the physically challenged are designed and developed here by the students under the guidance of eminent professors both from the Institute and abroad. VISHNU aims at empowering students with technical skills and can-do entrepreneurial spirit. The IBM Software Centre of Excellence in the campus provides the students with the best of quality technical education there by increasing the skill set of each student and faculty for a great career.
Department of Computer Science & Engineering

The mission of the department is to advance and enhance computer science engineering fundamentals to build the intellectual capital of students. The CSE Department endeavours to be an important resource centre for the development of computing systems and applications.

The department was established in the academic year 2008-09 with an annual intake of 66. It offers 4 year B.Tech. This program affiliated to JNTU Kakinada & approved by AICTE. The annual intake of CSE branch was increased to 120 from the academic year 2010-11. The department offers M.Tech in Computer Science & Engineering from the academic year: 2012-13. The department has number of well equipped Laboratories and provides excellent facilities for learning.
Academics are a continuing process of exploration, growth and sustenance. Today information explosion has brought about many changes. New ideas are generated, new interpretations are given and new applications are invented. The equations are changing very fast both in education and at the work place. Every day brings in new demands. One has to constantly upgrade to cope with the fast emerging trends. A software professional once said “We are training people in technologies to find solutions for problems that have not yet been identified”. Moreover the roles and responsibilities of professionals are ever expanding making it imperative to move beyond the confines of the classroom and the stipulated curriculum and focus on the skills needed to cater to the needs of the society. Hence it has become imperative to all the stakeholders in education to arm themselves with the necessary knowledge, skills and attitude to keep themselves abreast of the rapid changes.

That explains everything—the Chairman’s message to the faculty to constantly update themselves with the emerging new technologies and concepts, the focus on research, paper presentations and publications, undertaking new projects, adopting new technologies for information collection and dissemination as well.

“The key to growth is the introduction of higher dimensions of consciousness into our awareness” -- Lao Tzu.

That is what the message of our Chairman does, to motivate us to action.

The stimulus has been given…

it’s time for response.

**Department Activities**

IOS Workshop by Mr. Hemanth Alluri & Anudeep from INIMOS on 08-07-2013.

A guest Lecture on "Importance of Digital Media" was conducted on 12th November 2013 at Vishnu Institute of Technology. Resource Person: Prof. Cynthia L. Baron, Academic Director, North Eastern
University, Massachusetts, USA on 12-11-13.

**Soft Skills Training by R.S.R Murthy-AIRFORCE**

Vishnu Institute of Technology organized a Guest Lecture on "SOFTSKILLS & COMMUNICATIONS" for B.Tech & MBA students on 13 July 2013. Dr. D Suryanarayana, Principal, Prof. K Srinivas, faculty and students participated in the Event. Resource Person: Wing Commander R.S.R Murthy (AIRFORCE) Associate Vice-President H.R R.S.R Murthy is an astute professional with 31 years of experience in handling functions pertaining to: - Strategic Planning - Strategic HR Operations - Performance Management - Recruitment & selection - Training & Development - Compensation Management - General Administration - Process Development & Enhancement - Change Management - Team Management The program is interactive, participatory and includes readiness and reinforcement activities.

**Guest Lecture on Data Mining for II B.Tech students**

The departments of CSE and IT organized a Guest Lecture on "Data Mining" to II B.Tech students on 23-12-13. Dr. N Naveen, Associate Professor, Department of CSE, Madanapalle Institute of Technology and Science acted as resource person. The resource person gave an outlook of data mining and explained the applications of data mining by taking real world examples.

Guest Lecture on “Applications of Data Structures” Professor, Ramachandra Engineering College to II B.Tech students on 23-12-13

Our faculty Mr. CH Sai Baba, Mrs. CH L Veenadhari, Ms. S Rajeswari attended An interactive session with Prof. V.S.Raju (Formerly: Director, IIT Delhi & Professor and Dean, IIT Madras) on “You Have The Potential In You To Become An
Excellent Teacher” at SVECW on 31-8-13.

Mr. D John Subuddhi attended an interactive session on motivation by Sri Sachidananda at SVECW on 31-8-13.


"Importance of Digital Media" - conducted on 12th November 2013 Resource Person: Prof. Cynthia L. Baron, Academic Director, North Eastern University, Massachusetts, USA.

**Departmental club Activities**

CognoScentE – CSE Software Club, Presentation on Photoshop Features, C Programming Competition, Quiz competition.

**FRESHERS DAY - A Gala Celebration**

Fresher's day was grandly celebrated at Vishnu Institute of Technology in Smt. B. Seetha Indoor Auditorium on 23rd Nov, 2013.

It was a great evening aimed at building a bond of friendship and nurturing fellowship among the student fraternity.

Cultural programmes were the highlight of the day which saw all the juniors and seniors participate with full zest. Dances, songs, skits and games kept the audience enthralled throughout.

The entire campus reverberated with the joy of the students.
National Education Day was celebrated on 11th November 2013 at Vishnu Institute of Technology commemorating the Birthday of Bharat Ratna Maulana Abul Kalam Azad, the first education minister of Independent India.

Addressing students on this occasion, Principal Dr. D Suryanarayana paid tributes to the eminent educationist. He explained to the students the contribution of this visionary to the field of education.

He exhorted the students to follow the path set by our great intellectual and to make education a tool to excel.

Earlier in the day, literary events like Group Discussions, Poster Exhibition, and Quiz etc. were conducted with the theme of "Importance of Education: Science and Society". Prizes were given away to the winners. The highlight of the event was a documentary on Maulana Abul Kalam Azad and the importance of this day.

Chairman's Interaction with I B.Tech students

-- Live by honour, live by excellence
Come freshers and there is an inspiring interaction with our Chairman Shri K.V. Vishnu Raju. This, always, has been the practice at SVES. On October 2013 our Chairman interacted with the I B.Tech students of Vishnu Institute of Technology. As a person at the helm he provided a broad picture of education encompassing academics, skills, both core skills and life skills and a positive attitude. He called for a kind of intellect which is fostered by logical and analytic skills tempered with a spirit of scientific inquiry.

He emphasized on discipline as the criterion which keeps a check on one’s career, as honor and knowledge both are important. He motivated the students to acquire skills beyond the university curriculum and be globally competent. Foreign languages, Vishnu FM and TV Academy, ATL Lab, IBM Centre and many more facilities on the campus are, he pointed out, just some of the ways that enable the students to strengthen their arsenal. Motivated to the core, the students interacted with the Chairman asking many questions as to how they could upgrade themselves to international standards.

**Dussera - Ayudha Puja @ Vishnu**

On the occasion of Dussera, Ayudha Puja was performed at the machinery laboraties in the college premises where all the staffs and students participated and performed the puja for starting another new year more successfully with the blessing of the devi.

**I B.Tech Induction Programme :: 2013-14**

The Induction Programme acquaints the parents and students with the B.Tech course and the college. The programme starts with an Inaugural on 03 October 2013. The next day the students are taken on a campus visit so as to familiarize them with the campus and its facilities. This will be followed by Interaction with the Principals of various colleges of the campus and the HODs of VIT. Through this interaction students and parents get a lot of valuable information regarding the strategies to follow and practices to adopt during the course. An Orientation programme will be conducted for three days to
introduce the course structure, syllabus and resources to the students.

**Welcome to the Fresher’s!**

Vishnu Institute of Technology has once again achieved the distinction of getting all the seats filled. We extend our heartfelt gratitude to all the parents and students who have supported us all through. We shall continue to contribute our best and expect the parents and students to cooperate with us.

**Inauguration of I M.Tech class work**

D.Suryanarayana, Principal was the Chief Guest of the function. Dr D.Suryanarayana in his address stated the importance of Self-learning process, the impact of right kind of exposure on the student career, the need for Knowledge assimilation, Knowledge dissemination and Knowledge Generation.

He also said that every student has to be a professional to excel in this world and learning beyond the classroom through internship projects is very important to gain employability skills.

Heads of various departments and faculty members were present in this function.
Workshop on Assistive Technology Solutions in Minutes

Workshop on "Assistive Technology Solutions in Minutes" by Dr. Therese Willkomm and her team from New Hampshire University, USA was conducted from 15-12-2013 to 20-12-2013. Dr. Therese Willkomm, Ms. Wenasa and Ms. Emily of New Hampshire University, USA are the resource persons for this workshop.

Dr. Therese Willkomm and her team members have expounded the tools and material for making the projects in the workshop. All the III B.Tech. Students have participated enthusiastically with the hands-on approach throughout the session.

Faculty Activities

Mr. CH Sai Baba, Mrs. CH L Veenadhari, Ms. S Rajeswari attended an interactive session with Prof. V.S.Raju (Formerly: Director, IIT Delhi & Professor and Dean, IIT Madras) on “You Have The Potential In You To Become An Excellent Teacher” @ SVECW on 31-08-2013

Mr. D John Subuddhi attended an interactive session on motivation by Sri Sachidananda at SVECW on 31-08-2013

Mr. I Kali Pradeep and Mrs. CH L Veenadhari published a paper titled “Deployment models of Cloud Computing - Challenges” in IJARCS Vol 4, Number 9, July-Aug 13

Mr. CH Sai Baba, Mrs. CH L Veenadhari, Ms. S Rajeswari attended an interactive session with Prof. V.S.Raju (Formerly: Director, IIT Delhi & Professor and Dean, IIT Madras) on “You Have
The Potential In You To Become An Excellent Teacher” @ SVECW on 31-08-13

Mr. D John Subuddhi attended an interactive session on motivation by Sri Sachidananda at SVECW 31-08-13.


Placement Activities

Persistent Systems Technical & HR Interview at Vasavi Engineering College, Hyd for the Written test selected students @ BVRIT. [from VIT, N V Sai Ram, P Dinesh Krishna Reddy attended the interview on 26-10-13

Syntel Recruitment Drive [online written exam] for 2013 Pass outs. Around 45 students from various engineering colleges participated in the drive on 26-10-13

AMCAT exam-I was conducted for final year students. 63 final year CSE students took the exam. Total of 233 students took the exam on 28-10-13.

Placement @ Persistent Systems

Mr.P Dinesh Krishna Reddy of IV B.Tech, CSE (Regd.No: 10PA1A0590) got selected in Persistent Systems Recruitment Drive. Persistent is a global company specializing in software product and technology innovation. Hearty Congratulations on selection at Persistent Systems Recruitment Driv 3.with 6 Lakhs per Annum on 28-10-13.

Mr. A Gopinath & Mr. L V S S Harsha of IV B.Tech CSE got selected for MPHASIS as Software Engineer Trainee on 1-12-13

Hearty congratulations to students on selection @ NTT DATA

NTT DATA organized campus recruitment drive at Vishnu Institute of Technology on 29-12-13.
Engineering students from various reputed institutes participated in the drive.

Students of our college who got placed in the drive:

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**Student Activities**

40 students from III B.Tech CSE attended one day workshop on “Cloud Computing” at SVES-Bhimavaram by Mr D Uday Kumar, Executive Director, AT & T on **31-08-2013**.

24 students from III B.Tech CSE participated in Assistive Technology Lab (ATL) on **25-07-13**.

40 students from III B.Tech CSE attended one day workshop on “Cloud Computing” at SVES-Bhimavaram by Mr D Uday Kumar, Executive Director, AT & T on **31-08-13**.

**Articles**

Today we are in the Internet world and everyone prefers to enjoy fast access to the Internet. But due to multiple downloading, there is a chance that the system hangs up or slows down the performance that leads to the restarting of the entire process from the beginning. This is one of the serious problems that need the attention of the researchers.

So we have taken this problem for our research and in this paper we are providing a layout for implementing our proposed Grid Model that can access the Internet very fast. By using our Grid we can easily download any number of files very fast depending on the number of systems employed in the Grid. We have used the concept of Grid Computing for this purpose.

The Grid formulated by us uses the standard Globus Architecture, which is the only Grid Architecture currently used world wide for developing the Grid. And we have proposed an algorithm for laying our Grid Model that we consider as a blueprint for further implementation. When practically implemented, our Grid provides the user to experience the streak of lightening over the Internet while downloading multiple files.

Key words:
Grid Security Interface (GSI), Global Access to Secondary Storage (GASS), Monitoring and Discovery Service (MDS), Globus Resource Allocation Manager (GRAM).

INTRODUCTION:

What’s Grid computing? Grid Computing is a technique in which the idle systems in the Network and their “wasted” CPU cycles can be efficiently used by uniting pools of servers, storage systems and networks into a single large virtual system for resource sharing dynamically at runtime. These systems can be distributed across the globe; they’re heterogeneous (some PCs, some servers, maybe mainframes and supercomputers); somewhat autonomous (a Grid can potentially access resources in different organizations).

Although Grid computing is firmly ensconced in the realm of academic and research activities, more and more companies are starting to turn to it for solving hard-nosed, real-world problems.

IMPORTANCE OF GRID COMPUTING:

Grid computing is emerging as a viable technology that businesses can use to wring more profits and productivity out of IT resources -- and it’s going to be up to you developers and administrators to understand Grid computing and put it to work.

It’s really more about bringing a problem to the computer (or Grid) and getting a solution to that problem. Grid computing is flexible, secure, coordinated resource sharing among dynamic collections of individuals, institutions, and resources. Grid computing enables the virtualization of distributed computing resources such as processing, network bandwidth, and storage capacity to create a single system image, granting users and applications seamless access to vast IT capabilities. Just as an Internet user views a unified instance of content via the World Wide Web, a Grid user essentially sees a single, large, virtual computer.

Grid computing will give worldwide access to a network of distributed resources - CPU cycles, storage capacity, devices for input and output, services, whole applications, and more abstract elements like licenses and certificates.

For example, to solve a compute-intensive problem, the problem is split into multiple tasks that are distributed over local and remote systems, and the individual results are consolidated at the end. Viewed from another perspective, these systems are connected to one big computing Grid. The individual nodes can have different
architectures, operating systems, and software versions. Some of the target systems can be clusters of nodes themselves or high performance servers.

**TYPES OF GRID:**

The three primary types of grids and are summarized below:

- **Computational Grid**
  
  A computational grid is focused on setting aside resources specifically for computing power. In this type of grid, most of the machines are high-performance servers.

- **Scavenging grid**
  
  A scavenging grid is most commonly used with large numbers of desktop machines. Machines are scavenged for available CPU cycles and other resources.

- **Data Grid**
  
  A data grid is responsible for housing and providing access to data across multiple organizations. Users are not concerned with where this data is located as long as they have access to the data.