Vishnu Institute of Technology is permanently affiliated to JNTUK, Kakinada. The mission of the department is to advance and enhance computer science engineering fundamentals to build the intellectual capital of students. The CSE Department endeavors 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 programme. This program affiliated to JNTU Kakinada & approved by NBA & AICTE. The annual intake of CSE branch was increased to 180 from the academic year 2014-15. 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.

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Welcome to our first edition of the CSE newsletter TECHNOTHON 2016. (A Newsletter of department events, faculty achievements and articles by students). First of all, I would like to congratulate each and every one for this significant accomplishment of the CSE Department newsletter- TECHNOTHON. The primary goal of this newsletter is to introduce and understand the current technology, research, ideas and innovations.

The Technology we use today began as ideas – ideas for improving quality of life and making our world more convenient. Everyday our lives are impacted by technology, information and the people who help develop and bring it to us. As graduates of this program, you begin a journey to change the landscape and the way we live for the next coming years. So with that in mind, I wanted to leave you with some simple guiding principles as you move into the future.

Have a passion and thirst for knowledge. Never stop learning.... Use every spare minute of every day to learn new things, to expand your horizons and know more than you knew the day before. Always strive to
be the expert in your field. Knowledge and skills give you insight, which in turn makes you more valuable to those around you.

**Step outside your comfort zone.** Never stop stretching your boundaries. Take the risk. Be confident in yourself to achieve.

**Be confident in yourself. . .** Know your abilities, your strengths and your weaknesses. Do not be boastful or egotistical, but just honest.

**Be a team player and build strong relationships. . .** Relationships will be a key in everything you do. Treat others with respect in all situations. Listen carefully to what they have to say. Approach every interaction as either an opportunity to learn from someone or to teach someone. Always seek out those you respect to help mentor you. A mentor is someone who is more skilled and accomplished and can help you better navigate the everyday challenges that you will encounter.

**And finally, never, ever compromise your integrity. . .** Your reputation is everything and without it, you are nothing. Be known for being honest, fair and consistent in all that you do.

My best wishes to the editorial team members of TECHNOTHON for making this newsletter success by providing technical information, updates and also for encouraging students to improve their knowledge with this platform.

This is an admirable activity and opportunity that allows students from different cultural backgrounds to find common ground and to work cooperatively. Yet, as the educators, we must remember that the writing experience should be an empowering one instead of just another assignment students are told to do. The goal of creating a newsletter is to bring the class together as ELLs, learn how to express themselves orally and polish their writing skills in a better way.

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**Dr. D. Suryanarayana**
M.Tech. Ph.D.,
Professor, CSE
Director & Principal
Vishnu Institute of Technology
How to use python for data science?

1. **Learn the basics of python language:** The python track from code academy; Google class for python can be used as resources. Specifically learn Lists, Tuples, Dictionaries, List comprehensions and Dictionary comprehensions.

2. **Learn Regular Expressions in Python:** These are used a lot for data cleansing.

3. **Learn Scientific libraries in Python –**
   - **NumPy** – Numeric Python
   - **SciPy** – Scientific Python
   - **Matplotlib** – for visualization and
   - **Pandas** – provides data frame functionality

4. **Learn scikit-learn:** It is most useful library on python for machine learning.

   “Practice these technical skills and compete with the fellow data scientists... All the Best.”

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**PLACEMENTS**

Abdul Imroz (12PA1A0501) and Jinnala Sudha Rani (12PA1A0543) have placed in VEE TECHNOLOGIES USA
Have you ever wanted to download an entire playlist from youtube at once?? Then this article is for you.

- As we all know, www.youtube.com is one of the most popular video hosting websites
- A youtube Playlist is a set videos grouped together for ex: all C programming videos from a youtube channel can be made as a playlist
- Internet Download Manager (IDM) is one of the best download manager software. Follow the below steps to download an entire youtube playlist using IDM

1. Open www.youtube.com and search for the playlist you want. For ex: search for java hadoop, you will see some results like below

2. The group of 36 videos is a playlist, click on view full playlist(36 videos), it will take you to the playlist homepage.
3. Copy the playlist URL from the browser address bar


5. Paste the URL in the Playlist Link text box. The pasted link will not be visible, don’t panic.

<table>
<thead>
<tr>
<th>Auto MP4</th>
<th>Auto 3GP</th>
<th>720P</th>
<th>360P</th>
<th>240P</th>
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Please reload the page after change quality!

6. Now you will see some automatically generated code in the text area, copy and save it in a text file.

7. Open IDM, click on tasks> import > from text file and locate the saved text file.
8. Automatically all the videos are listed in the pop-up window, now click on ‘check all’.

9. Choose the directory where you want to save the downloaded files, click on OK.

10. Finally select all the videos from the IDM main window and select ‘start queuing’ from the top menu.

11. All the files will be downloaded into the target folder.

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**THE BEST WEBSITES TO VISIT...**

Slate (http://www.slate.com/)

One of the very first online magazines alongside Salon, Slate’s come a long way from the days when it was owned by Microsoft. In its 17 years the online magazine has covered or argued about everything you can imagine in politics, tech, business, art, and life. It couldn’t make paid subscriptions work but succeeded in podcasts, and became an award winner at the National Magazine Awards in 2011.

CollegeHumor (www.collegehumor.com/)

Perhaps you wish you could relive your college glory days—the good times when everything was a riot. Luckily there’s plenty of that fun to be had at this comedy site, home of some of the most consistently hilarious sketches and series of today.
MongoDB is the database for today’s applications, enabling you to:

- Leverage data and technology to maximize competitive advantage
- Reduce risk for mission-critical deployments
- Accelerate time-to-value
- Dramatically lower total cost of ownership

With MongoDB, you can build applications that were never possible with traditional relational databases. Here’s how.

- Fast, Iterative Development. Scope creep and changing business requirements no longer stand between you and successful project delivery. A flexible data model coupled with dynamic schema and idiomatic drivers make it fast for developers to build and evolve applications. Automated provisioning and management enable continuous integration and highly productive operations. Contrast this against static relational schemas and complex operations that have hindered you in the past.

- Flexible Data Model. MongoDB’s document data model makes it easy for you to store and combine data of any structure, without giving up sophisticated validation rules, data access and rich indexing functionality. You can dynamically modify the schema without downtime. You spend less time prepping your data for the database, and more time putting your data to work.

- Multi-Datacenter Scalability. MongoDB can be scaled within and across geographically distributed data centers, providing new levels of availability and scalability. As your deployments grow in terms of data volume and throughput, MongoDB scales easily with no downtime, and without changing your application. And as your availability and recovery goals evolve, MongoDB lets you adapt flexibly, across data centers, with tunable consistency.
Integrated Feature Set. Analytics and data visualization, text search, geospatial, in-memory performance and global replication allow you to deliver a wide variety of real-time applications on one technology, reliably and securely. RDBMS systems require additional, complex technologies demanding separate integration overhead and expense to do this well.

Lower TCO. Application development teams are more productive when they use MongoDB. Single click management means operations teams are as well. MongoDB runs on commodity hardware, dramatically lowering costs. Finally, MongoDB offers affordable annual subscriptions, including 24x7x365 global support. Your applications can be one tenth the cost to deliver compared to using a relational database.

Long-Term Commitment. MongoDB Inc and the MongoDB ecosystem stand behind the world’s fastest-growing database. 10M+ downloads and 2,000+ customers including over one third of the Fortune 100. Over 1,000 partners and greater investor funding than any other database in history. You can be sure your investment is protected.

MongoDB Nexus Architecture

Organizations are increasingly considering alternatives to legacy relational infrastructure, driven by challenges presented in building modern applications. Consider:

- Developers are working with applications that create new, rapidly changing data types — structured, semi-structured, unstructured and polymorphic data — and massive volumes of it.
- Long gone is the twelve-to-eighteen month waterfall development cycle. Now small teams work in agile sprints, iterating quickly and pushing code every week or two, some even multiple times every day.
- Applications that once served a finite audience are now delivered as services that must be always-on, accessible from many different devices and scaled globally.
- Organizations are now turning to scale-out architectures using open source software, commodity servers and cloud computing instead of large monolithic servers and storage infrastructure.
MongoDB’s design philosophy is focused on combining the critical capabilities of relational databases with the innovations of NoSQL technologies. Our vision is to leverage the work that Oracle and others have done over the last 40 years to make relational databases what they are today. Rather than discard decades of proven database maturity, MongoDB is picking up where they left off by combining key relational database capabilities with the work that Internet pioneers have done to address the requirements of modern applications.

Relational databases have reliably served applications for many years, and offer features that remain critical today as developers build the next generation of applications:

- **Expressive query language.** Users should be able to access and manipulate their data in sophisticated ways with powerful query, projection, aggregation and update operators, to support both operational and analytical applications.

- **Secondary indexes.** Indexes play a critical role in providing efficient access to data, for both reads and writes, supported natively by the database rather than maintained in application code.

- **Strong consistency.** Applications should be able to immediately read what has been written to the database. It is much, much more complicated to build applications around an eventually consistent model, imposing significant work on the developer, even for the most sophisticated development teams.

However, modern applications impose requirements not addressed by relational databases, and this has driven the development of NoSQL databases which offer:
Flexible Data Model. NoSQL databases emerged to address the requirements for the data we see dominating modern applications. A flexible data model makes it easy to store and combine data of any structure, and allow dynamic modification of the schema without downtime.

Elastic Scalability. NoSQL databases were all built with a focus on scalability, so they all include some form of sharding or partitioning, allowing the database to scale-out on commodity hardware, allowing for almost unlimited growth.

High Performance. NoSQL databases are designed to deliver great performance, measured in terms of both throughput and latency at any scale.

While offering these innovations, NoSQL systems have sacrificed the critical capabilities that people have come to expect and rely upon from relational databases. MongoDB offers a different approach. With its Nexus Architecture, MongoDB is the only database that harnesses the innovations of NoSQL while maintaining the foundation of relational databases.

Source: https://www.mongodb.org/

Feature Article: Data Models of MongoDB (In Feb’16 issue)

UPDATES

FDP Title: Algorithm Analysis and Design
Dates: 29th Feb to 9th March
Last Date for Application: 15th Feb
Registration Fee: Rs. 2000/-

Conference Title: National Conference on Big Data Analytics & Its Applications (NCBDA 2016)
Dates: 18th & 19th March, 2016-02-05
Full Paper Submission Date: Feb 15th, 2016
Registration Fee: Rs. 1500/-

Pre conference workshop: On 17th March 2016
1. Big Data Analytics using-Hadoop, Map Reduce, HIVE.
2. Business Intelligence using Data Ware Housing Tool
Registration Fee: Rs. 500/-

Venue: NIT Warangal

Venue: K L University
Vaddeswaram, Guntur
 Vishnu Institute of Technology, Bhimavaram is organizing National Level Student Technical Symposium Vishnu’s Active Learning In Advanced New Trends (VALIANT-2K16) on 26th and 27th February 2016. A plethora of events are planned to conduct for Engineering and MBA Students in the proposed symposium. Some of the special features of the symposium include:

Creative Gallery Events
- Projects Exhibition
- Poster Presentation
- C-Programming Contest
- Volte Face
- Click a Pic
- Quiz Master
- Round Robin
- Sell Outs

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- Data Warehousing and Data Mining
- Cloud Computing
- Open Source Technologies
- AI and Neural Networks
- Wireless Technologies
- Computer Forensics
- Big Data
- Computational Intelligence
- Network Security
- Social Networking
- Semantic Web

CSE

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Important Dates
- Last date for submission of papers: 15-02-2016
- Selection intimation by email: 18-02-2016
- Confirmation of participation: 20-02-2016

Papers to be uploaded at: www.vishnu.edu.in/valiant
Note: Bonafide certificate and ID card must be produced

Registration Fee: ₹ 200 per paper

Dr. D. Suryanarayana,
Director & Principal

Dr. M. Venu,
Convener
FUN THINGS WE CAN DO ON INTERNET

Learn to read body language and detect lies at Blifaloo.

There's no sure shot way to tell if a person is lying, but you can always pretend that there is and get them to tell the truth anyway!

(http://www.blifaloo.com/)

Find free wifi spots worldwide at WifiFreeSpot

It even lists some clinics in Delhi with free Wi-Fi! Now I can just pretend to have a migraine and get free internet woohoo!

(http://www.wififreespot.com/)

Learn any language in the world at Duolingo

With a little patience, you can be spewing French pickup lines and Spanish cuss words interchangeably.

(https://www.duolingo.com/)

Watch from hundreds of documentaries at DocumentaryHeaven

It's got Kubrick on the home page, which basically convinced me that this site is legit. They've got loads of free documentaries ripe for the picking!

(http://documentaryheaven.com/all/)

Learn killer magic tricks at GoodTricks

Everybody loves magic, so if you want to be the next David Blaine (Do you really?), then head on over here and start levitating or whatever.

(http://documentaryheaven.com/all/)
There was a poor boy who made a living with selling various objects door to door, to pay for his school. He was very hungry and felt he couldn’t walk even a few steps. He decided to ask for food at a house. He knocked the door and was stunned to see a beautiful young girl at the door step. With so much hesitation, in spite of his hunger, he asked the girl to offer a glass of water.

The young girl understood his hunger through his eyes and offered him milk in a huge glass. With astonished look he drank the milk very slowly. And asked how much I owe you for this milk?

The girl replied ‘I don’t accept anything for kindness.’ With big smile in his face, the boy thanked the girl from the bottom of his heart and left the place.

Years passed by. The young girl fell ill and was diagnosed with the rarest kind of nervous condition, which was a complicated condition to treat. While many experienced doctors baffled at her condition, she was taken to a big hospital to study about her condition.

Dr. Kevin, a renowned specialist was called in by the hospital to examine her. He gave a visit to the hospital where she was admitted to learn about the rare condition. As he entered her room, Dr. Kevin immediately identified who that woman was!

With all his efforts and knowledge, Dr. Kevin battled hardly with the disease for weeks and months. At last, he won over the disease and the woman was completely cured. Everyone praised the doctor, while the woman was quite afraid about the hospital bill as she could not afford to pay.

Dr. Kevin asked the hospital to send the bill to him as he would add his charges. After receiving the hospital bill, he wrote a note and sent it to her. With lots of fear, she opened the bill and had no idea how much she was charged.

Her eyes filled with tears and happiness once she opened the bill. She found the bill cancelled and that was not the reason for her happiness.

She saw the note written by Dr. Kevin - “Bill Paid years ago with a glass of milk!”
MARKETING SOFTWARE

Marketing software is the computer programming that runs tools related to the creation and/or the consumption of marketing content. Unlike other marketing technology tools that are wedded to specific distribution channels -- television is a distribution technology, for instance -- marketing software is used across the spectrum of marketing creation and delivery. Much of it is an outcome of the application of technology and computer programming to businesses overall, such as process and risk management tools like ERM, or relationship programs, like CRM. Marketing software is used in five broad areas of marketing:

**Research**
Software is used in all phases of marketing research work, whether in new product development or market analyses. Software is used to collect information from the marketplace via online surveys and polls, which offer the added benefit of real-time correlating and presentation of results.

**Management**
There have been programs available for quite some time to allow marketers to store and manage the images and other files used to create ads and other content, known as "digital asset management." Software is also used to keep track of project status, both in the development process and also as it is delivered.

**Delivery**
Specific applications of marketing software in content delivery, however, are mostly focused on presenting ads or other content on web pages, often keyed to what other information is being presented and/or the users interests evidenced by their online behavior. Apps that run on mobile devices are often marketing software, or have marketing software feeding into them (or, conversely, provide user info for research purposes).

**Sharing**
The mere existence of "like" and "share" functions on social media technology platforms are examples of marketing software, because they enable the transmission of content with endorsements attached (explicit or implicit).
AN ANGEL LEFT HER WINGS

A girl’s message to the world...
My journey started as a sperm in my mother’s bud..
Struggled myself to see the colourful world..
But after entering here..
Never thought that I have to survive like this..

Birds were freely flying the sky..
Peacocks were freely dancing in the jungle..
Even NIRBHAYA ravisher is candidly surviving.. now
WHO WILL SAY, INDIA IS A DEMOCRATIC COUNTRY..???

If I want that freedom, that justice..
I wish to born like a bird or an animal..
But unfortunately, I was born like a girl..
Where justice doesn't meet my horizon..
My tears were shedding in every corner of the world..
So, am lefting from this hell..
But just think once..

What happens if a girl was born..??
My family was mourned..??
I am ignoring everywhere..why..??
I am facing troubles everywhere..Why..?
Am I born like a sinner..??
Am I the property of exchange..??
Am I the entertain property for you..??

NO, NOT AT ALL..
Everyone is the beautiful creature of god..

GIRL NEED A CHANGE..
NEED A CARE..
NEED A HOPE..
CHANGE doesn't mean CHANGE in law..
CHANGE must come in you..
A woman brought you into this world,
So you have no right to disrespect even one..

CHANGE YOURSELF AND SAVE US...!!!
Send your articles to: csenewsletter@vishnu.edu.in
Website: www.vishnu.edu.in
Contact: S. Mahaboob Hussain, Assistant Professor, CSE
Mobile No: 949 0873 494