



Principal Message



I am very much pleased with the upcoming idea of releasing newsletter from the Department of Computer Science and Engineering of Kakatiya Institute of Technology & Science, Warangal. This is really a very good effort to keep the students abreast of the new technological trends and directions in the field of Computer Science & Engineering.

- Dr.K.Ashoka Reddy.

Cheif Editors' Message



It gives me immense pleasure to announce the release of CSE department newsletter, foCuSE. The unique feature of the newsletter is that it is being planned and designed by the student fraternity alone. I wish that the tempo is continued in the days to come.

- Prof P.Niranjan Reddy.

Faculty Editors

M.Venugopal Reddy
Associative Professor

K.Vinay Kumar
Asst. Professor

M.Preethi
Asst. Professor

V.Swathi
Asst. Professor

Chief Editor

P.Niranjan Reddy
Head of the Department

Student Editors

Mogal Akram Baig
B.Tech IV/IV

Jawahar Madineni
B.Tech IV/IV

Yokesh Thakre
B.Tech IV/IV



Engineering Events:-

| S.NO | Program Name | Company Name | Dates | No. of days | Laboratory Name/Seminar Hall Name | No. of students | Batches/ Students | Resource Person Name |
|--------------------------------|--|--|---|-------------|-----------------------------------|-----------------|--|--|
| Academic Year 2013-2014 | | | | | | | | |
| 1. | Guest Lecture on Cloud Computing | EMC Sr SAN/Storage Solutions Architect From Northcarolina, USA | 25-06-2013 | 1day | Auditorium | 350 | 2 nd year, 3 rd year, 4 th year Students of CSE | Sri Mr.Ragotham Reddy, USA |
| 2. | Guest Lecture on Software Engineering approaches | cognizant Technology solutions, Hyderabad & CNO Solutions, Hyderabad | 19-07-2013 | 1day | Auditorium | 350 | 2 nd year, 3 rd year, 4 th year Students of CSE | Someshwar Rao Bukka Business Analyst, CTS, Hyderabad & M Murali Kumar senior software engineer, CNO Solution - Hyderabad |
| 3. | Technoplexus (T13) | KITS, Wgl | 7 th & 8 th Dec, 2013 | 2 Days | Auditorium | 500+ | 1 st Year, 2 nd year, 3 rd year, 4 th year Students of CSE | Technoplexus (T13) highlights on extracting the hidden talents of engineers who have to transform them self into responsible software professionals. |
| 4. | MTA Certification | Microsoft Technical Associate | 22 nd & 23 rd Nov, 2013 | 2 Days | WT Lab | 150+ | 2 nd year, 3 rd year, 4 th year Students of CSE | JKC Staff, Hyderabad |
| 5. | Oracle Certification | Oracle | 18 th , 19 th , 20 th December, 2013 | 3 Days | WT Lab | 40 | 3 rd Year Students of CSE | JKC Oracle Staff, Hyderabad |
| 6. | Oracle Certification | Oracle | 17 th , 18 th , 19 Feb, 2014 | 3 Days | IBM Lab | 30 | 3 rd year, 4 th year Students of CSE | JKC Oracle Staff, Hyderabad |
| 7. | FTP Programme | KITS, Wgl | 6 th & 7 th September 2013 | 2 Days | Silver Jubilee Seminar Hall | 100 | Faculty from Various Institutions | Dr.P.Radha Krishna (Principal Research Scientist: Infosys Technology) |

UML Unified Modelling Language

The Unified Modeling Language (UML) is a general-purpose modeling language in the field of software engineering, which is designed to provide a standard way to visualize the design of a system.

It was created and developed by Grady Booch, Ivar Jacobson and James Rumbaugh at Rational Software during 1994-1995 with further development led by them through 1996.

In 1997 it was adopted as a standard by the Object Management Group (OMG), and has been managed by this organization ever since. In 2000 the Unified Modeling Language was also accepted by the International Organization for Standardization (ISO) as an approved ISO standard. Since then it has been periodically revised to cover the latest revision of UML.

UML (Unified Modeling Language) is very powerful modeling language.[1] We can develop many diagrams using UML and provide users with ready-to-use, expressive modeling examples. UML can be applied in many areas like embedded systems, web applications, commercial applications etc. Some UML tools generate program language code from UML.[2] UML can be used for modeling the whole system independent of platform language. UML is a graphical language for visualizing, specifying, constructing, and documenting information about software-intensive systems.[3] UML gives us a standard way to write a system's view, covering conceptual things such as business processes and system functions, as well as things like classes written in a specific programming language, database schemas, and reusable software components. Because of the large community of software developers it is necessary to understand the importance of modeling, its applications and the use of UML to make the software development process more efficient.

10 programming languages that are in demand by employers

- SQL

Most businesses and websites have databases that work behind the scenes and many of those databases rely on SQL. Structured Query Language is what is referred to as a specialized programming language in that it was designed for editing and querying data residing in relational database management systems.

- Java

Java's write once-and-run-anywhere mantra says it all. This cross-platform, object-oriented programming language has become one of the most sought-after programming skills in the developer world.

- HTML

HTML is one of the fundamental technologies that the Web is built upon. When combined with JavaScript and CSS, you can use HTML to create impressive Web pages and apps with interactive features such as geolocation capabilities, better forms, video and canvas capabilities and Web storage.

- JavaScript

JavaScript, like HTML is a part of the fabric of the Web. It's been around forever, but it has recently shown resurgence with the jQuery libraries.

- C++

C++, developed by Bjarne Stroustrup in 1983, is an enhancement of the programming language C. The addition of object-oriented programming has given this high-level language some low-level capabilities making it a good multi-purpose language.

- C#

Object-oriented C# (pronounced C Sharp) was developed by Microsoft as a multi-paradigm programming language that is fully compatible with Microsoft's .NET schema. Although it's used mainly on Windows, C# is designed as a cross-platform language.

- XML

Extensible Markup Language, or XML, is a markup language used to define document encoding that has gone on to become the default for many office productivity suites. Where HTML is about how information is displayed, XML is about transporting and storing data. The format is such that the code is readable by both humans and machines.

- C

C is arguably the most widely used and currently the most popular programming language, according to the Tiobe Programming Community Index.

- Perl

Larry Wall created Perl in 1987; it originally got its start as a general purpose Unix scripting language. It has a hodge-podge of features from C, shell script, AWK and sed that is designed to allow developers to work more easily with text data.

- Python

Python is high-level object-oriented programming language that developers can use in many ways. Python is all about readability. It's uniform and streamlined syntax allows programmers to build concepts more quickly and with less code.

OPEN SOURCE

Open source it is a simple word which mean a lot to software programmers and developers. Open source software is computer software that is freely available with source code to the general public with relaxed or non-existent copy right restrictions. It is often developed in a public collaborative manner. Users have the access over the source code so that they can fine tune, report bugs, distribute it, submit additions to software, code fixes for the software. It is an explicit feature of open source that it may put no restrictions on the use or distribution by any organization or user.

Although all stories related to software are obviously short, that of open source is one of longest among them. In fact it could be said that in the beginning, there was only free software. Later on, proprietary software was born, and it quickly dominated. Recently free software is considered as an option again. In 1960 when IBM sold large scale commercial computers some software was free and later the situation changed after unbundling IBM software and in mid 1970ss it was usual to find proprietary software. In late 1970s and early 1980s, two different groups were establishing the roots of current open source software movement. On the US east coast Richard stall man programmer at MIT AI LAB resigned and started GNU project and free software foundation the ultimate goal was to build free operating system.

On the philosophical side Richard stall man wrote GNU manifesto, stating that availability of code and freedom to redistribute and modify are fundamental rights. And similarly open BSD on US west. During 1980s and 1990s open source software continued its development initially in severally relatively isolated groups.

Top 10 IT Security Tips

IT security is now a critical part of computer usage, especially in the advent of the worldwide web. With new security threats appearing daily, it's only natural for IT experts to develop ten fundamental guidelines that will help many an average computer user to avoid the common pitfalls of modern-day computing.

1. **Get an Anti-Virus and Regularly Update It:** Anti-viruses are your foremost line of defense against viruses and other types of malware.
2. **Acquire an Anti-Spyware Tool:** Anti-spyware services can be obtained via standalone programs like Lavasoft's Ad Aware or as a bundle to a whole IT security suite like the ZoneAlarm Pro Firewall package.
3. **Keep Your Programs Updated:** Hackers are forever looking for ways to infiltrate networks or systems via applications connected directly to the Internet.
4. **Do Not Download Unknown Files:** Do not get files or install programs without knowing where they came from first. Be very careful of what you download from the Internet.
5. **Do Not Open Unsolicited Emails:** Email messages and attachments have become popular mediums that hackers use to spread their trojans, spyware, and botnets.
6. **Give Complex Passwords and Change Them Regularly:** Don't use birthdays or "123456" as your passwords.
7. **Utilize File Sharing Cautiously:** File sharing services and applications are among the many channels that cyber terrorists exploit in order to spread chaos and mayhem across the Information Superhighway.
8. **Run Services as Needed:** Running too many network services (FTP, IIS, UPNP, and so on) at once will leave your machine vulnerable to all sorts of hacker attacks and machinations.
9. **Install a Firewall:** A firewall program is the best way for the average user to protect his PC even when he's online and open to all sorts of virtual assaults.
10. **Make Regular Backups:** The complete deletion of your files and programs.



Apple Mouse



Issue 07
January
2014

