



SREE VENKATESWARA COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Jawaharlal Nehru Technological University – Anantapur)

GOLDEN NAGAR, NH5 BYPASS ROAD, NORTH RAJUPALEM, KODAVALURU (V&M), SPSR NELLORE

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REPORT

Date : 03/04/2019

The Computer Science & Engineering Department has organized a **Guest Lecture** on "**COMPILER DESIGN**" from 01st Apr 2019 & 02nd Apr 2019. The resource person was **Mr S. ARUN PAUL, Chief Operating officer, Expert Companion Private Limited.** The III year students from the CSE department have attended this Guest Lecture. The Guest Lecture was well attended with the strength of 61 students.

The resource person shared his insights, real life scenarios, practical use cases and their solutions on the Compiler Design. The course started by providing real experience at the registration desk itself When students mobile flashed up with the Guest Lecture welcome screen on their arrival at the registration desk.

Compiler design is a course that discusses ideas used in construction of programming language compilers. Students learn how a program written in high level programming language and designed for humans understanding is systematically converted into low level assembly language understood by machines.

We propose and implement a Case-based and Project-based Learning environment for teaching important Compiler design concepts (CPLC) to B.Tech third year students of a Sree Venkateswara College of Engineering.

Previous research shows that case-based teaching helps students to apply the principles discussed in the class for solving complex practical problems. We divide one main project into sub-projects to give to students in order to enhance their practical experience of designing a compiler.

To measure the effectiveness of case-based discussions, students complete a survey on their perceptions of benefits of case-based learning. The survey is analyzed using frequency distribution and chi square test of association. The results of the survey show that case-based teaching of compiler concepts does enhance students skills of learning, critical thinking, engagement, communication skills and team work.



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A compiler is likely to perform following operations: lexical analysis, syntax analysis, semantic analysis, preprocessing, parsing, code generation, and code optimization.

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REPORT

Date : 31/10/2018

The Computer Science & Engineering Department has organized a **Guest Lecture** on "**DISCRETE MATHEMATICS**" from 29th Oct 2018 & 30th Oct 2018. The resource person was **Mr. VINAY KUMAR, Assistant Manager, Campus – Recruitment, Global Edge Software Pvt Ltd.** The II year students from the CSE department have attended this Guest Lecture. The Guest Lecture was well attended with the strength of 64 students.

The resource person shared his insights, real life scenarios, practical use cases and their solutions on the Discrete Mathematics. The course started by providing real experience at the registration desk itself When students mobile flashed up with the Guest Lecture welcome screen on their arrival at the registration desk.

Discrete Mathematics Guest Lecture will cover several different topics, including cryptography, iteration and recursion, graph theory, combinatorics and decision theory. This seminar will include student materials and discussion of what is currently being taught in discrete math courses.

All topics and activities will be designed to involve participants in new and challenging mathematical ideas. If there is interest, at least some of the seminars will provide instruction in programming (likely python). Other computing tools, such as Geogebra, and Wolfram Alpha will be used.

The aim of the Guest Lecture is to explore options for including discrete mathematics in the B.Tech curriculum -- either as a fourth-year option or extensions to existing programming (many topics are excellent for math clubs). This will be discussed at every Guest Lecture with sample topics, engaging activities, computing tools, resources and books.

We will learn the six classical ciphers covered in the handbook and make plans to continue learning more advanced cryptography. Cryptography gives students the chance to see an exciting and relevant application of mathematics using skills already acquired in school.



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Topics from discrete mathematics: graph theory and recursion. We will do some introductory activities for both topics and look at some books that present the material. The activities are hands-on, focus on problem solving and should be engaging for both you and potentially for your students. As well, they present a mathematical point of view common to many discrete mathematics topics.

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Date : 04/11/2019

The Computer Science & Engineering Department has organized a **Guest Lecture** on “**OPERATING SYSTEMS**” from 01st Nov 2019 & 02nd Nov 2019. The resource person was **Mr. V. PAVAN, Manager Campus Solution, AMCAT Pvt Ltd.** The III year students from the CSE department have attended this Guest Lecture. The Guest Lecture was well attended with the strength of 59 students.

The resource person shared his insights, real life scenarios, practical use cases and their solutions on the Operating Systems. The course started by providing real experience at the registration desk itself When students mobile flashed up with the Guest Lecture welcome screen on their arrival at the registration desk.

The subject matter dealt with in the programme was the salient features of GNU/LINUX, the Free and Open Source Software. There was an introductory speech about GNU/LINUX operating system: Linux is an operating system with a series of programs that let one to interact with his computer and run other programs.

An operating system consists of various fundamental programs which are needed by the computer so that it can communicate and receive instructions from users; read and write data to hard disks, tapes, and printers; control the use of memory; and run other software.

The most important part of an operating system is the kernel. In a GNU/Linux system, Linux is the kernel component. The rest of the system consists of other programs, many of which were written by or for the GNU Project. Because the Linux kernel alone does not form a working operating system, we prefer to use the term “GNU/Linux”. Linux is modelled on the Unix operating system.

The file structure of Linux system and their requirements were explained to the participants. It helps to understand the working and the difference between users and root.

The booting process and the files involved in this process were explained. The kernel was also made known to the participants. The hands on session began in the afternoon. The participants were instructed to install the Debian Operating System in this session. With the help of the



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resource person all the participants were able to install the above operating system in their computers. This was done by dividing the participants in to three groups.

All the subject dealt with in the previous day were recollected. Then the class started with the installation of Debian Operating System PXE boot. A PXE install server allows the client computers to boot and install a Linux distribution over the network, without the need of burning Linux iso images onto a CD/DVD, boot floppy images, etc.

This is handy if the client computers do not have CD or floppy drives. For the booting one system is configured as server with Debian Operating System and another as Client. In the client system the image is copied to the server directory. On configuration, upto four systems can be booted from the server Operating System with out any failure.

The seminar was very informative and interesting for the participants. They have shown much interest in the hands on sessions as well as in lecture classes.

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