

# Vasavi College of Engineering

Ibrahimbagh -31

## Department of Computer Science and Engineering

A Report on 2 day Student Training Programme on “**Algorithms in C**” conducted on Sept 6<sup>th</sup> & 11<sup>th</sup>, 2013

### (Conducted under TEQIP-II)

Department has organized a 2 day student training program on “**Algorithms in C**” for the student audiences of BE 2/4 CSE on Sept 6<sup>th</sup> & 11<sup>th</sup>, 2013.

The sessions were delivered by Mr. Mohammed Shabbir & Mr. Vijay Kumar from WebCognize Softech Pvt. Ltd.

The objectives of the training program were

- To Deliver the hands on sessions to solve a problem with many alternatives
- To Demonstrate Algorithms of simple application of day to say activity.

Speakers have started sessions with brief introduction to the C language, and the execution environment required for C program. The student’s knowledge levels in C were analyzed by asking them by asking them to draft a code for simple programs. After the acknowledging the implementation techniques of students various alternatives solution were discussed.

#### Day 1:

The memory utilization strategies using stacks and heaps were discussed. The day - 1 helped the students in distinguishing the advantages and disadvantages of various methods of solving problems. The sessions were

taken forward with discussion of implementation of the following algorithms.

- Algorithm for Lucas Number
- Algorithm for Blackjack
- Algorithm for Leyland Numbers
- Algorithm for Amicable Numbers
- Algorithm to find mirror image of given time in clocks
- Algorithm to provide ATM Transaction

#### Day 2:

The speaker continued training sessions discussing the algorithms for following problems:

- To find an integer number of a given Roman number.
- For Calculating Electricity Bill
- For Converting given string into lower case
- For Reverse all words but not string

The speakers have solved placement oriented bits that are asked during interview drive and alternative methods of solving the problem.

The session concluded with discussion of disadvantages of object oriented programming by demonstrating the concepts of structures in C employed to store the database of 50 students.