

SRM UNIVERSITY, Sonepat
COURSE MODULE FOR B Tech in CSE with specialization in Cloud & Mobile Based Application
Development in association with IBM

Module Title : **Software Foundation and Emerging Areas of Technology**
Programme : **BTech (CSE) in Cloud & Mobile Based Application**
Development in association with IBM
Term : **1st year 1st Semester**
Credits :

Time required in terms of Student Learning: -

32 Hours

Aim & Objectives:

Teaching and Learning Approach:

The course will focus on using a teacher-student interactive and decision-oriented learning exercises.

For the active learning mode in the course to be effective, participating in class discussions is extremely important along with self paced learning to clear the concepts of software.

In addition to the lectures, discussions and demonstrations, students would be required to work on sample applications and exercises

Guided Study:

Guided study will include Online learning from IBM Career Education @ Campus Portal, text readings, articles on contemporary issues in organization, assignments, case analysis and power point presentations.

Assessment:

Assessment of the student will be based on mid-term and end term examination and continuous assessment subject to class participation, assignments and presentations.

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Indicative Contents:

Topic	Coverage
Unit 1	Brief History of Computing, Introduction to computing
Unit 2	The Structure of C programs, Literals, variables and types, Expressions, operators, Conditionals, Loops and random numbers, Arrays, Functions, Pointers and Dynamic Memory Allocation, Structures, Applications: searching and sorting, File input and output
Unit 3	Introduction to Emerging Areas of Technology Cloud Computing Business Analytics Mobile Apps Development Social Business Information Security

Text Material & resources: IBM Course Material

Software Foundation and Emerging Areas of Technology