DEPARTMENT OF COMPUTER SCIENCE
DR. BHIMRAO AMBEDKAR UNIVERSITY
KHANDARI CAMPUS, AGRA

Value Added Courses

Course Name	BASICS OF PROGRAMMING Using C
Course Code	DCS001
Duration	30 Hrs.
Resource Person	Dr. Amit Singhal, Assistant Professor
Organized by	Department of Computer Science, IET, Dr. Bhimrao Ambedkar University, Agra

About the Course:

Today's world is an information-rich world and it has become a necessity for everyone to know about computers. Computer fundamentals is also very useful for undergraduate students of computer science, engineering, business administration, management, science, commerce and arts, where an introductory course on computer programming is a part of curriculum.

Course Objective: To impart knowledge on

- To introduce Basics of programming
- To explore various operators and concept of C programming
- To learn Arrays and strings
- To study Functions and procedures

Course Outcome: At the end of the course, the students will be able to

- Follow standards and declaration rules in writing programs
- Write simple Programs using 'C' language
- Apply operators and logic in programs
- Handle Arrays, strings and functions while creating applications

Unit I: Basic concepts of programming, Declaration, Assignment & Print statements, Data Types, operators and expressions, etc. Programming examples and exercise

Unit II: Sequential arrangement of Statements, Selective arrangement of statements (if, if-else, nested if-else, cascaded if-else), switch statement, ternary operator? Go to

Unit III: Iterative arrangement of statements using Loops (For, while-do, do-while) in C, break and continue, Programming examples and exercises

Unit IV: Arrays: 1D and 2D arrays, Operations on matrices, String: Declaring, Initializing, Printing and reading strings, string manipulation functions, String input and output functions

Unit V: Functions in C, Library Functions and User Defined Functions

Text Book:

1. Let Us C by Yashwant Karnitkar, Tata McGraw Hill

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