

B.Sc. ELECTRONICS

SEMESTER – II

17UELDA03	DSE Allied - 2: C – Programming	3 hrs./wk	3 Credits
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Objectives:

To enable the students to

1. Apply fundamental principles of problem solving in software engineering.
2. Apply basic programming principles using C language.
3. Apply basic C program structure in software development
4. Understand methodology of Programming
5. Apply good programming Techniques to reduce the code size of program

Syllabus:

Unit 1 Introduction to computer and programming 05 Hrs

Introduction

Basic block diagram and functions of various components of computer

Concepts of Hardware and software

Types of softwares, Compiler and interpreter

Concepts of Machine level, Assembly level and high level programming, Flow charts and Algorithms

Unit 2 Fundamentals of 'C' 06 Hrs

Features of C language

structure of C Program, comments, header files, data types, constants and variables, operators, expressions, evaluation of expressions, type conversion, precedence and associativity, I/O functions

Unit 3 Control structure in 'C' 06 Hrs

Simple statements

Decision making statements

Looping statements, Nesting of control structures, break and continue, goto statement

Unit 4 Array & String 06 Hrs

Concepts of array

One and two dimensional arrays

