ACHARYA NAGARJUNA UNIVERSITY - UG SYLLABUS

Group: B.Com   **Subject:** Programming IN C   **Year:** III   **Sem:** V

Unit- I:

Introduction to Algorithms and Programming Languages: Algorithm – Key features of Algorithms – Some more Algorithms – Flow Charts. Introduction to C: Structure of C Program – Writing the first C program – File used in C Program – Compiling and Executing C Programs – Using Comments – Keywords – Identifiers – Basic Data Types in C – Variables – Constants – I/O Statements in C- Operators in C- Programming Examples – Type Conversion and Type Casting

Unit-II:

Decision Control and Looping Statements: Introduction to Decision Control Statements – Conditional Branching Statements – Iterative Statements – Nested Loops – Break and Continue Statement – Go to Statement

Unit- III:

Functions: Introduction – using functions – Function declaration/ prototype – Function definition – function call – return statement – Passing parameters – Scope of variables – Storage Classes – Recursive function

Unit- IV:

Arrays: Introduction – Declaration of Arrays – Accessing elements of the Array – Storing Values in Array – Calculating the length of the Array – Operations on Array – one dimensional array for inter-function communication – Two dimensional Arrays –Operations on Two Dimensional Arrays.

Unit-V:

Strings: Introduction string and character functions.

Reference Books:

1. **Reema Thareja, Introduction to C programming, Oxford University Press.**
2. **E Balagurusamy, Computing Fundamentals & C Programming – Tata McGraw-Hill, 2008.**
3. **Ashok N Kamthane, Programming with ANSI and Turbo C, Pearson Publisher, 2002.**
4. **Henry Mulish & Hubert L.Coo Reema Thareja: The Spirit of C: An Introduction to Modern Programming, Jaico Publishing House,1996.**