B. Com (Comp)/B. Com (IT)/ BBA (IT) I Year, II-Semester 'C' PROGRAMMING

Scheme of Instruction Scheme of Examination

Total durations Hrs: 60 Max. Marks: 100

Hours/Week: 06(4T+2P) Internal Examination: 30

Credits: 5 SBT: 10

Instruction Mode: Lecture +practical External Examination :60
Course Code: BS.05.201.24T Exam Duration: 3 Hrs

Unit - I

Introduction to Programming: Problem analysis, Introduction to algorithms, flow charts, structured programming and modular programming.

Overview of C: History of C, Importance of C, Basic Structure of C program, Writing and Executing a C Program. Constants, Variables and Data types,Input/output statements, Operators and Expressions,

<u>Unit – II</u>

Decision Making and Branching: Introduction, if, if-else, Nested-If statements, Switch-case statement.

Decision Making and Looping: Introduction, *While* Statement, *Do-while statement*, For Statements, break and continue statements.

Unit - III

Arrays: Introduction, Defining, creating and initializing an array One-Dimensional Array, Two-Dimensional Array.

Pointers: Introduction, Understanding Pointer-creating and assigning pointer, Accessing address of a variable. Pointers to arrays.

Unit – IV

Functions: Introduction, types of functions, built-in Functions-String Functions, Date Functions. **User-defined functions:** Introduction, Elements of functions-Function Declaration, function definition, function calls, Parameter Passing-call by value and call by reference, Recursion, Passing arrays to functions.

Unit -V

Structures and Unions: Introduction, Defining Structures, declaring structure variables, Structures initialization, Accessing Structure members. Structure vs. Unions, Enumerated Data Types.