SEMESTER- I

COURSE CODE :- C2
COURSE TITLE :- PROGRAMMING IN C
CREDIT :- 4

Marks distribution
Full Marks: 15 (MSE) + 60 (ESE) = 75 Duration: 3 hrs Pass Marks: 34
This paper consists of 50 marks and divided into two groups:
Group-A: Objective questions (Compulsory) : 1 x 10 = 10
Group-B: descriptive questions (5 out of 8 questions) : 10 x 5 = 50

Total = 60

The questions must cover the entire syllabus with equal distribution of marks as far as practicable.

Module 1: Origin and Introduction
Programming languages About C, Evolution of C**,** Structure of a C Program, Compilers & Interpreters Compiling a C Program, A Simple C Program.

Module 2: Data Types, Variables and Constants Data Types Variables, Constants Operators, Type Modifiers and Expressions Operators, Type Modifiers Expressions, Introduction to Input/output Console I/O Functions, Unformatted Console I/O Functions**.**

Module 3: Control Constructs Control Statements, Conditional Statements, Loops in C, The break Statement, The Continue Statement.

Module 4: Arrays and String Introduction to Arrays, One Dimensional & Two Dimensional Arrays. Introduction to strings

Module 5: Functions Introduction to Functions, Function Declaration and Prototypes, Recursion in Function.

Module 6: Pointers Introduction to Pointers, Pointer Notation**.** Pointer Declaration and Initialization, Accessing Variable through Pointer, Pointer Expressions, Pointers and One Dimensional Arrays.

Module 7: Structures Structure Definition, Structure Initialization, Arrays of Structures, Arrays within Structures. Structures within Structures, Passing Structures to Functions

Module 8: File Handling in C What is a File, Defining and Opening a File, Functions for Random Access to Files.

Reference Books:
1. Programming in C By Stephen G. Kochan
2. Programming in C ByM.T.Somashekara

PRACTICAL: - C Programming
Basic program of C (a) Control Statement, (b) Arrays(c) String, (d) Structure (e) Pointers