

**MAJOR PAPER – II : PASCAL AND C PROGRAMMING**

UNIT – I

Programming preliminaries – character set – expressions – simple data type – assignment statements – I/O statements – conditional statements – empty statements – repetitive statements – control structures.

UNIT – II

Procedures and functions – processing character strings, arrays – user defined data types – records – files – sets – lists and pointers.

UNIT – III

Structure of a C program – Elementary data types – declarations – operators – arithmetic, relational, logical – assignment, increment, decrement, bitwise & conditional operators – type conversions – I/O functions – formatted I/O – control structures – IF –ELSE – GOTO – WHILE.. DO.. WHILE.. FOR statements – switch statements.

UNIT – IV

Array and manipulations – character strings – string manipulations – user defined functions – parameter transmission –scope and life time of variables in function – structures and unions – manipulations –structures and functions.

UNIT – V

Pointers, declarations – accessing through pointers – pointers and character strings – pointers and functions – pointers and structures – files – I/O operations – Random access files.

TEXT BOOKS:

1. Programming with PASCAL – GOTTERIRED, MCGRAW HILL inter-national editions, 21 Schaum's Outline series.
2. Mullish Cooper – The Sprit of C – An introduction to modern programming – Jaico Publishing House.

REFERENCE BOOKS:

1. V.Rajaraman “Computer Programming in Pascal”
2. Balagurusamy E. – “Programming in C” – Tata McGraw Hill Publishing Company.