MANIPAL UNIVERSITY JAIPUR

School of Computing and Information Technology

Department of Computer Science and Engineering
Course Hand-out

Programming in C | CS 1101 | 4 Credits

Course Outcomes: At the end of the course, students will be able to

[CS1101.1]: Described a deep knowledge of computer for better understanding of devices, basic fundamental of computer comprises in this course.

[CS1101.2]: Design flow chart, Write algorithm and pseudo code parallel with Control Statements to understand flow of program execution.

[CS1101.3]: Understand bitwise operations and conversion of numbers in different representations through Number System.

[CS1101.4]: Developing skills in students to learn memory oriented operation using pointers and understating programming skills by Array, Structure, Union, Enum and String are added.

[CS1101.5]: Students learned the concept of re-usability by means of functions in C and to illustrate the concept of data base using file handling.

A.   SYLLABUS

Computer Fundamentals: The von Neumann Architecture, flowcharts and algorithms, operating system fundamentals (Linux), programs, assembly language, high level programming languages; Number System: Binary, decimal, octal, hexadecimal. C Programming: Data types, variables, operators, expressions, statements, control structures, functions, recursion, arrays and pointers, records (structures), files, input/output, standard library functions and elementary data structures.

B.   TEXT BOOKS

i.   E. Balagurusamy, "Computer Fundamentals & C Programming", TMH, 2008.
ii. Y. P. Kanetkar, "Let us C", 12th Edition, BPB Publication, 2014.