

FUNDAMENTALS OF COMPUTING AND CPROGRAMMING LABORATORY

Course Code: CSL28

Pre – requisites :Nil

Course Coordinator: Mrs. Meeradevi K

Credits: 0:1:1

Contact Hours: 14T+ 14P

Course Content:

1. Basic LINUX Commands, Libreoffice Writer, Spreadsheets(Calc),Databases(Base)
2. C-Programming: Using Operators,
3. C-Programming: Using Conditional Statements
4. C-Programming: Using Switch Case and GOTO Statement
5. C-Programming: Using Iterative Statements
6. C- Programming: Using One Dimensional Arrays
7. C- Programming: Using Two Dimensional Arrays
8. C -Programming :Using Character array and Strings
9. C- Programming: Using Functions
10. C- Programming: Using Structures
11. C- Programming: Using Pointers
12. C- Programming: Using Files

Reference Books/Links:

1. **E. Balagurusamy** - Programming in ANSI C, TMH, 7th Edition, 2016
2. **Behrouz A Forouzan & Richard F Gilberg** - Computer Science: A Structural Programming Approach using C,Thomas Brooks publication, 2nd Edition, 2006.
3. **Yashvant Kanetkar** - Let Us C, BPB Publications, 15th Edition, 2016.
4. **Reema Thareja** - Programming in C, 2nd Edition, Oxford University press 2015
5. <https://www.libreoffice.org/get-help/documentation/>

Course Outcomes (COs):

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

1. Recall basic UNIX commands and prepare a Document, spreadsheet and Database using Libre Office. (PO-1, PO-2, PO-5)
2. Write C-programs using language constructs such as Operators, Conditional and Iterative Statements. (PO-1, PO-2, PO-5)
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3. Write C-programs to implement concepts related to arrays, functions, Strings, structures, pointers and Files. (PO-1, PO-2, PO-5)

Note:

- The exercises based on the above topics will be formulated and discussed in the Tutorial Class.
- Each student will be given two manuals, one for the tutorial class (the student will write the solutions for the tutorial exercises) and one for the Laboratory (the student will write the executed program in the Lab class)