Lesson Plan

Name of the Faculty : **Sh. Sanjeev Kumar**

[Discipline :](file:///C%3A%5CUsers%5CLAB6%20PC19%5CDesktop%5C6th%20sem%20L%20P%5CNetwork%20Security.docx#bookmark2) Computer Engg.

[Semester :](file:///C%3A%5CUsers%5CLAB6%20PC19%5CDesktop%5C6th%20sem%20L%20P%5CNetwork%20Security.docx#bookmark3) 3rd

**Subject** : PIC

Lesson Plan Duration **: 15 weeks (from Sept.-2023 to Jan.-2023)**

Work Load (Lecture / Practical) per week (in hours): **Lectures-03, Practical-06**

| **Week** | **Theory** | **Practical** |
| --- | --- | --- |
| **Lecture day** | **Topic(including assignment / test)** | **PracticalDay** | **Topic** |
| **1st** | **1st** | Introduction to c language,history | 1 & 2 | Programming exercises on executing and editing a C program |
| **2nd** | Steps in development of a program. |
| **3rd** | Algorithm development, Programme Debugging,flowcharts |
| **2nd** | **4th** | I/O statements, assign statements | 3 &4 | Programming exercises on defining variables and assigning values to variables.  |
| **5th** | Constants, variables and data types |
| **6th** | Operators and Expressions |
| **3rd** | **7th** | Algorithm and flowchart practical | 5 & 6 | Programming exercises on arithmetic and relational operators.  |
| **8th** | test |
| **9th** | Unformatted and Formatted IOS |
| **4th** | **10th** | Data Type Casting |  7 & 8 | Programming exercises on arithmetic expressions and their evaluation. |
| **11th** | Revision |
| **12th** | Introduction to Control Structures |
| **5th** | **13th** | Decision making with IF – statement | 9 & 10 | Programming exercises on formatting input/output using printf and scanf and their return type values  |
| **14th** | IF – Else and Nested IF |
| **15th** | While and do-while, for loop |
| **6th** | **16th** | While and do-while, for loop |  11 & 12 | Programming exercises using if statement. Programming exercises using if – Else. |
| **17th** | Break. Continue, goto |
| **18th** | Revision and switch statement. |
| 7th | 19th | Introduction to pointers | 13 & 14 | Programming exercises on practice of switch statement. |
| 20th | Address operator and pointers |
| 21st | Declaring and initializing pointers,  |
| 8th | 22nd | Single pointer, | 15 & 16 | Programming exercises on do – while, statement.  |
| 23rd | Revision |
| 24th | Revision |
| 9th | 25th | Introduction to functions  | 17 & 18 | Programming exercises on for – statement.  |
| 26th | Global and Local Variables |
| 27th | Function Declaration Standard functions |
| 10th | 28th | Parameters and Parameter Passing | 19 & 20 | Simple programs using pointers. |
| 29th | Call - by value/reference |
| 30th | Revision |
| 11th | 31st | Array Declaration, Length of arraySingle and Multidimensional Array.  | 21 & 22 | Programs on one-dimensional array. Programs on two-dimensional array.  |
| 32nd | Arrays of characters |
| 33rd | Revision |
| 12th | 34th | Introduction of Strings  | 23 & 24 | (i) Programs for putting two strings together. (ii) Programs for comparing two strings.  |
| 35th | String declaration and definition |
| 36th | Revision |
| 13th | 37th | String Related function i.e. strlen, strcpy, strcmp | 25 & 26  | Simple programs using functions  |
| 38th | Passing an array to function |
| 39th | Pointers to an array and strings. |
| 14th | 40th | Revision | 27 & 28 | Simple programs using structures. |
| 41st | Declaration of structuresAccessing structure members |
| 42nd | Unions |
| 15th | 43rd | Pointers chapter test | 29 & 30 | Simple programs using union. |
| 44th | Revision of loops and control structures |
| 45th | Structure and union test. |