Lesson Plan

Name of the Faculty : **Mrs.Krishma**

[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 **: 16 weeks (from Sep 2022 to Jan 2023)**

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

| **Week** | **Theory** | **Practical** |
| --- | --- | --- |
| **Lecture day** | **Topic(including assignment / test)** | **PracticalWeek** | **Topic** |
| **1st** | **1st** | Introduction to c language,history | 1 | Programming exercises on executing and editing a C program |
| **2nd** | Steps in development of a program. |
| **3rd** | Algorithm flow chart development, Programme Debugging  |
| **2nd** | **4th** | I/O statements, assign statements | 2 | Programming exercises on defining variables and assigning values to variables.  |
| **5th** | Constants, variables and data types Operators and Expressions |
| **6th** | Unformatted and Formatted IOS |
| **3rd** | **7th** | Data Type Casting | 3 | Programming exercises on arithmetic and relational operators.  |
| **8th** | **Assignment 1** |
| **9th** | TEST |
| **4th** | **10th** | Introduction to Control Structures | 4 | Programming exercises on arithmetic expressions and their evaluation. |
| **11th** | Decision making with IF – statement |
| **12th** | IF – Else and Nested IF |
| **5th** | **13th** | While loop | 5 | Programming exercises on formatting input/output using Printf and Scanf and their return type values  |
| **14th** |  Do-while, for Loop |
| **15th** | Break. Continue |
| **6th** | **16th** | Go to and Switch statement | 6 | Programming exercises using if statement. Programming exercises using if – Else. |
| **17th** | **Assignment 2** |
| **18th** | Test |
| 7th | 19th | Introduction to pointers | 7 | Programming exercises on practice of switch statement. |
| 20th | Address operator and pointers |
| 21st | Declaring and initializing pointers,  |
| 8th | 22nd | Single pointer | 8 | Programming exercises on do – while, statement.  |
| 23rd | **Revision** |
| 24th | Test |
| 9th | 25th | Introduction to functions  | 9 | Programming exercises on for – statement.  |
| 26th | Global and Local Variables |
| 27th | Function Declaration Standard functions |
| 10th | 28th | Parameters and Parameter Passing | 10 | Simple programs using pointers. |
| 29th | Call - by value and Call by reference |
| 30th | **Revision** |
| 11th | 31st | Array Declaration, Length of arraySingle and Multidimensional Array.  | 11 | Programs on one-dimensional array. Programs on two-dimensional array.  |
| 32nd | Arrays of characters |
| 33rd | Introduction of Strings  |
| 12th | 34th | String declaration and definition | 12 | (i) Programs for putting two strings together. (ii) Programs for comparing two strings.  |
| 35th | String Related function i.e. strlen, strcpy, strcmp |
| 36th | Passing an array to function |
| 13th | 37th | Pointers to an array and strings. | 13 | Simple programs using functions  |
| 38th | **Assignment 3** |
| 39th | Test |
| 14th | 40th | Declaration of structuresAccessing structure members | 14 | Simple programs using structures. |
| 41st | Structure initialization  |
| 42nd | Pointer to structure ,Unions |
|  15th | 43rd | Test | 15 | Simple programs using union.. |
| 44th | Test |
| 45th | Revision |
| 16th | 46th | Revision | 16 | Revision |
| 47th | Revision |
| 48th | Revision |