

Lesson Plan

Name of Faculty : Mr. Hitesh Kumar
Discipline : Computer Engg.
Semester : 3rd
Subject : Programming in 'C'
Lesson Plan Duration : 15 Week (20/08/24 to 29/11/24)

| Week | Theory | | Practical | |
|--------|-------------|---------------------------------------------|---------------|------------------------------------------------------------------------------------------------------|
| | Lecture Day | Topic (Including Assignment / Test) | Practical Day | Topic |
| Ist | 1 | Steps in development of a program | 1 | Programming exercises on executing and editing a C program. |
| | 2 | Flow charts, Algorithm development | 2 | Programming exercises on defining variables and assigning values to variables. |
| | 3 | Programme Debugging | | |
| IIInd | 4 | I/O statements | 3 | Revise |
| | 5 | Assign statements | 4 | Programming exercises on arithmetic and relational operators. |
| | 6 | Constants, variables and data types | | |
| IIIrd | 7 | Operators and Expressions. | 5 | Programming exercises on arithmetic expressions and their evaluation. |
| | 8 | Unformatted | 6 | Programming exercises on formatting input/output using printf and scanf and their return type values |
| | 9 | Formatted IOS | | |
| IVth | 10 | Data Type Casting | 7 | Revise |
| | 11 | Data Type Casting | 8 | Ist Sessional |
| | 12 | Ist Sessional | | |
| Vth | 13 | Introduction | 9 | Programming exercises using if statement |
| | 14 | Decision making with IF – statement | 10 | Programming exercises using if – Else.. |
| | 15 | IF – Else and Nested IF | | |
| VIth | 16 | While and do-while, for loop | 11 | Revise |
| | 17 | Break. Continue, goto and Switch statements | 12 | Programming exercises on switch statement |
| | 18 | Introduction to pointers | | |
| VIIth | 19 | Address operator and pointers | 13 | Programming exercises on do – while, statement |
| | 20 | Declaring and initializing pointers, | 14 | Programming exercises on while statement |
| | 21 | Single pointer | | |
| VIIIth | 22 | Introduction to functions | 15 | Revise |
| | 23 | Global and Local Variables | 16 | Programming exercises on for – statement. |
| | 24 | Function Declaration | | |

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| IXth | 25 | Standard functions | 17 | Revise |
| | 26 | Parameters and Parameter Passing | 18 | IIInd Sessional |
| | 27 | Call - by value/reference | | |
| Xth | 28 | IIInd Sessional | 19 | |
| | 29 | Introduction to Arrays | 20 | Revise |
| | 30 | Array Declaration, Length of array | | |
| XIth | 31 | Single and Multidimensional Array. | 21 | |
| | 32 | Arrays of characters | 22 | Programs on two-dimensional array |
| | 33 | Introduction of Strings | | |
| XIIth | 34 | String declaration and definition | 23 | |
| | 35 | String Related function i.e. strlen, strcpy, strcmp | 24 | (i) Programs for putting two strings together. |
| | 36 | Passing an array to function | | |
| XIIIth | 37 | Pointers to an array and strings. | 25 | |
| | 38 | Declaration of structures, Accessing structure members | 26 | Simple programs using functions |
| | 39 | Structure Initialization, Pointer to a structures, Unions | | |
| XIVth | 40 | Opening and Closing of File | 27 | |
| | 41 | Modes of Accessing Files | 28 | Simple programs using union. |
| | 42 | Reading and Writing in the File | | |
| XVth | 43 | Reading and Writing in the File | 29 | |
| | 44 | IIIrd Sessional | 30 | IIIrd Sessional |
| | 45 | Revision & Problem Solving of students | | |