Name of the faculty : DEVENDER SINGH

Discipline : ECE

Semester : 3rd

Subject : **COMPUTER PROGRAMMING USING C**

Lesson plan Duration : 15 week .

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| **Theory** |  |
| **Week** | **Lecture Day** | **Topic****(Including Assignment test)** | **Practical** | **Topic** |
| 1st | 1 | Steps in development of a program | 1 | 1) Programming exercises on executing and editing a C program.  |
|  | 2 | Flow charts, Algorithm development | 2 |
|  | 3 | Algorithm development | 3 |
|  | 4 | Programme Debugging  |
| 2nd | 5 | I/O statements, assign statements | 4 | 2. Programming exercises on defining variables and assigning values to variables.  |
|  | 6 | assign statements | 5 |
|  | 7 | Constants, variables  | 6 |
|  | 8 | ……and data types |
| 3rd | 9 | Operators  | 7 | 3. Programming exercises on arithmetic and relational operators.  |
|  | 10 |  Expressions | 8 |
|  | 11 | Standards and  | 9 |
|  | 12 | Formatted IOS |
| 4th | 13 | Data Type Casting  | 10 | 4. Programming exercises on arithmetic expressions and their evaluation.  |
|  | 14 | Control Structures Introduction  | 11 |
|  | 15 | Decision making with IF – statement | 12 |
|  | 16 | Decision making with IF – statement |
| 5th | 17 | IF – Else | 13 | 5. Programming exercises on formatting input/output using printf and scanf and their return type values. |
|  | 18 |  Nested IF | 14 |
|  | 19 | While and do-while, for loop | 15 |
|  | 20 | While and do-while, for loop |
| 6th | 21 | Break. Continue, goto | 16 | 6. Programming exercises using if statement.  |
|  | 22 | and switch statements  | 17 |
|  | 23 | Introduction to Pointers | 18 |
|  | 24 | Pointers |
| 7th | 25 | Address operator and pointers  | 19 | .7 Programming exercises using if – Else. |
|  | 26 | Declaring and Initializing pointers,  | 20 |
|  | 27 | Declaring and Initializing pointers | 21 |
|  | 28 | Single pointer,  |
| 8th | 29 | Introduction to functions | 22 | 8. Programming exercises on switch statement.  |
|  | 30 | Global and Local Variables | 23 |
|  | 31 | Global and Local Variables | 24 |
|  | 32 | Function Declaration  |
| 9th | 33 | Function Declaration  | 25 | 9. Programming exercises on do – while, statement.  |
|  | 34 | Standard functions | 26 |
|  | 35 | Standard functions | 27 |
|  | 36 | Parameters and  |
| 10th | 37 | Parameter Passing | 28 | 10. Programming exercises on for – statement.  |
|  | 38 | Call - by value/reference | 29 |
|  | 39 | Call - by value/reference | 30 |
|  | 40 | Introduction to Arrays |
| 11th | 41 | Array Declaration, Length of array | 31 | 11. Programs on one-dimensional array.  |
|  | 42 | Single and  | 32 |
|  | 43 | Multidimensional Array. | 33 |
|  | 44 | Arrays of characters  |
| 12th | 45 | Passing an array to function | 34 | 12)Programs on two-dimensional array.  |
|  | 46 | Passing an array to function | 35 |
|  | 47 | Pointers to an array | 36 |
|  | 48 |  Revision |
| 13th | 49 | Revision | 37 | 13. (i) Programs for putting two strings together. (ii) Programs for comparing two strings.  |
|  | 50 | Revision | 38 |
|  | 51 | Revision | 39 |
|  | 52 | Revision |
| 14th | 53 | Revision | 40 | 14. Simple programs using structures.  |
|  | 54 | Revision | 41 |
|  | 55 | Revision | 42 |
|  | 56 | Revision |
| 15th | 57 | Revision | 43 | 15. Simple programs using pointers. 16.Simple programs using union  |
|  | 58 | Revision | 44 |
|  | 59 | Revision | 45 |
|  | 60 | Revision |