**NAMEOF THE FACULTY** :MR . DEVENDER SINGH

**DISCIPLINE** :ECE

**SEMESTER** :3 rd

**SUBJECT** :ComputerProgrammingusingC

**LESSONPLANDURATION** : -15weeks(from15 Sept.2022 to16 Jan2023)

WORKLOAD(LECTURE/PRACTICAL)PERWEEK (INHOURS):-LECTURE-**04**,PRACTIACL-**03**PERGROUP

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| **WEEKS.N.** | **THEORY** | | **PRACTICAL** | | |
| **Lecture**  **/ Hrs** | **TOPIC**  **(IncludingAssignment/Test)** | **Practical**  **/ Hrs** | | **Experiment** |
| 1st | 1 | **Introduction** Algorithm andProgrammingDevelopment | Group-1 | 1 | Programming exercises onexecuting and editing a Cprogram. |
| 2 |
| 2 | Stepsindevelopmentofaprogram | 3 |
| Group-2 | 1 | Programming exercises onexecuting and editing a Cprogram. |
| 3 | Introductionto Flowcharts | 2 |
| 4 | Algorithmdevelopment | 3 |
| 2nd | 5 | IntroductiontoProgrammeDebugging | Group-1 | 1 | Programming exercises ondefining variables and assigningvaluestovariables. |
| 2 |
| 6 | ProgrammeDebugging | 3 |
| Group-2 | 1 | Programming exercises ondefining variables and assigningvaluestovariables. |
| 7 | I/Ostatements | 2 |
| 8 | Assignstatements | 3 |
| 3rd | 9 | Constants,variables | Group-  1 | 1 | Programming exercises onarithmetic and relationaloperators. |
| 2 |
| 10 | DataTypes | 3 |
| Group-2 | 1 | Programming exercises onarithmetic and relationaloperators. |
| 11 | Operators | 2 |
| 12 | Expressions | 3 |
| 4th | 13 | StandardsIOstatements | Group  -1 | 1 | Programming exercises onarithmetic expressions andtheirevaluation. |
| 2 |
| 14 | FormattedIOstatements | 3 |
| Group-2 | 1 | Programming exercises onarithmetic expressions andtheirevaluation. |
| 15 | DataTypeCasting | 2 |
| 16 | IntroductiontoControlStructures | 3 |
| 5th | 17 | **Assignment-1** | Group-1 | 1 | Programming exercises onformatting input/output usingprintf() and scanf() and theirreturntypevalues. |
| 2 |
| 18 | **SessionalTest-1** | 3 |
| Group-2 | 1 | Programming exercises onformatting input/output usingprintf() and scanf() and theirreturntypevalues. |
| 19 | DecisionmakingwithIF –statement | 2 |
| 20 | DecisionmakingwithIF –statement | 3 |

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| 6th | 21 | IF– Else | Group-1 | 1 | Programming exercises using ifstatement. |
| 2 |
| 22 | Nested IF | 3 |
| Group-2 | 1 | Programming exercises using ifstatement. |
| 23 | Introductiontoloops | 2 |
| 24 | Whileanddo-while, forloop | 3 |
| 7th | 25 | Whileanddo-while, forloop | Group-1 | 1 | Programmingexercisesusingif  –Else. |
| 2 |
| 26 | Break, Continue,goto statements | 3 |
| Group-2 | 1 | Programmingexercisesusingif  –Else. |
| 27 | Break,Continue,gotostatements | 2 |
| 28 | Switchstatements | 3 |
| 8th | 29 | IntroductiontoPointers | Group-1 | 1 | Programming exercises onswitchstatement. |
| 2 |
| 30 | Pointers | 3 |
| Group-2 | 1 | Programming exercises onswitchstatement. |
| 31 | Addressoperatorandpointers | 2 |
| 32 | DeclaringandInitializingpointers | 3 |
| 9th | 33 | DeclaringandInitializingpointers | Group-1 | 1 | Programming exercises on do –while, statement. |
| 2 |
| 34 | Singlepointer | 3 |
| Group-2 | 1 | Programming exercises on do –while, statement. |
| 35 | RevisionPointers | 2 |
| 36 | RevisionPointers | 3 |
| 10th | 37 | Introductiontofunctions | Group-  1 | 1 | Programming exercises on for –statement. |
| 2 |
| 38 | **Assignment-2** | 3 |
| Group-2 | 1 | Programming exercises on for –statement. |
| 39 | **SessionalTest-2** | 2 |
| 40 | Introductiontofunctions | 3 |
| 11th | 41 | Global andLocalVariables | Group-1 | 1 | Programs on one-dimensionalarray. |
| 2 |
| 42 | Global andLocalVariables | 3 |
| Group-2 | 1 | Programs on one-dimensionalarray. |
| 43 | FunctionDeclaration | 2 |
| 44 | FunctionDeclaration | 3 |

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| 12th | 45 | Standardfunctions | Group-1 | 1 | Programs on two-dimensionalarray. |
| 2 |
| 46 | Standardfunctions | 3 |
| Group-2 | 1 | Programs on two-dimensionalarray. |
| 47 | Parameters | 2 |
| 48 | ParameterPassing | 3 |
| 13th | 49 | Call- byvalue | Group-1 | 1 | 1. Programs for putting twostringstogether. 2. Programs for comparing twostrings. |
| 2 |
| 50 | Call-byreference | 3 |
| Group-2 | 1 | 1. Programs for putting twostringstogether. 2. Programs for comparing twostrings. |
| 51 | Introductionto Arrays | 2 |
| 52 | ArrayDeclaration,Lengthofarray | 3 |
| 14th | 53 | SingleArray | Group-1 | 1 | Simple programs usingstructures. |
| 2 |
| 54 | MultidimensionalArray | 3 |
| Group-2 | 1 | Simple programs usingstructures. |
| 55 | Arraysofcharacters | 2 |
| 56 | Passinganarraytofunction | 3 |
| 15th | 57 | Pointerstoan array | Group-1 | 1 | Simple programs usingpointers. |
| 2 |
| 58 | **Assignment-3** | 3 |
| Group-2 | 1 | Simple programs usingpointers. |
| 59 | **SessionalTest-3** | 2 |
| 60 | Revision | 3 |