G.B.N.Govt.Polytechnic,NilokheriLesson Plan

Name of the Faculty : Ms. Uma kakkar [Discipline :](file://localhost/C:/LAB6%20PC19/Desktop/6th%20sem%20L%20P/Network%20Security.docx%23bookmark2) ComputerEngineering

[Semester :](file://localhost/C:/LAB6%20PC19/Desktop/6th%20sem%20L%20P/Network%20Security.docx%23bookmark3) 3rd

Subject : Programmingin C (PIC)

Lesson Plan Duration : 15weeks(from August2025 to November 2025)

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| **Week** | **Theory** | | **Practical** | |
| **Day** | **Topic(includingassignment/test)** | **Day** | **Topic** |
| **1st** | **1** | Stepsindevelopmentofaprogram, | **1** | ProgramonexecutingandeditingaC program. |
| **2** | Flowcharts,Algorithmdevelopment |
| **2** | Programondefiningvariablesand assigning values to variables. |
| **3** | ProgrammeDebugging,I/Ostatements,  Constants,variables |
| **2nd** | **4** | datatypes,Operators &Expressions, | **3** | Programonarithmeticandrelational operators. |
| **5** | UnformattedandFormattedIOS,DataType Casting |
| **4** | Hands on Practice |
| **6** | Decisionmaking withIF –statement,IF–  ElseandNestedIF |
| **3rd** | **7** | Whileanddo-whileloop | **5** | Programonarithmeticexpressions and their evaluation. |
| **8** | for loop,Break,Continuestatements |
| **6** | Programonformattinginput/output using printf and scanf and their  returntypevalues. |
| **9** | gotoand switchstatements |
| **4th** | **10** | Introductiontopointers,Addressoperator  andpointers | **7** | Hands on Practice |
| **11** | Declaringandinitializingpointers,Single pointer, |
| **8** | Programusingifstatement. |
| **12** | Introductiontofunctions |
| **5th** | **13** | FunctionDeclaration,calling,definition | **9** | Programusingif– Else. |
| **14** | ParameterPassing,Call-by value/reference, |
| **10** | Programonswitchstatement. |
| **15** | Globaland LocalVariables |
| **6th** | **16** | Revision | **11** | Hands on Practice |
| **17** | Revision |
| **12** | Hands on Practice |
| **18** | Sessional1 |
| **7th** | **19** | IntroductiontoArrays,ArrayDeclaration,  Lengthofarray | **13** | Programondo-whileloop |
| **20** | Singledimensionalarray |
| **14** | Programonforloop |

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|  | **21** | mutidimensionalarray |  |  |
| **8th** | **22** | Arraysofcharacters | **15** | Simpleprogramusingpointers. |
| **23** | IntroductionofStrings,Stringdeclaration and definition |
| **16** | Programonone-dimensionalarray. |
| **24** | Stringrelatedfunctioni.e.strlen, strcpy,  strcmp |
| **9th** | **25** | Passinganarraytofunction | **17** | Hands on Practice |
| **26** | Pointerstoanarrayandstrings. |
| **18** | Programontwo-dimensionalarray. |
| **27** | Declarationofstructures,Accessing  structuremembers |
| **10th** | **28** | Revision | **19** | Hands on Practice |
| **29** | Revision |
| **20** | Hands on Practice |
| **30** | Sessional2 |
| **11th** | **31** | StructureInitialization | **21** | Programforputtingtwostrings together. |
| **32** | Pointertoastructures, |
| **22** | Programfor comparingtwostrings. |
| **33** | Unions |
| **12th** | **34** | ClassTest | **23** | Simpleprogramusingfunctions |
| **35** | Opening ofFile |
| **24** | Hands on Practice |
| **36** | Closing ofFile |
| **13th** | **37** | ModesofAccessing Files | **25** | Simpleprogramusingstructures. |
| **38** | ReadingtheFile |
| **26** | Hands on Practice |
| **39** | WritingintheFile |
| **14th** | **40** | Classtest | **27** | Simpleprogramusingunion. |
| **41** | RevisionofUnit1 |
| **28** | ProgramonReadingandWriting data to a file. |
| **42** | RevisionofUnit2 |
| **15th** | **43** | RevisionofUnit3 | **29** | Hands on Practice |
| **44** | RevisionofUnit4 |
| **30** | Hands on Practice |
| **45** | Sessional3 |