**SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL**

**LESSON-PLAN**

**Class: B.COM C.A IInd yr. Semester: ODD**

 **Session: 2020-21 Subject: Structural Programming**

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| **Lecture Number** | **Topic** |
| **1-20** | **Unit -1** |
|  | Planning the Computer Programming: - Purpose of Program Planning,  |
|  | Representations of Algorithms |
|  | Methods of analyzing a program requirements |
|  | Flow Charts: Flowchart Symbols, Levels of Flowcharts |
|  | Flow Chart Rules, Advantage & Disadvantage of Flow Chart |
|  | Test and assignment related to above topics. |
| **21-35** | **Unit -II** |
|  | Introduction to ‘C’ language: Concept of structural programming, Basic Constructs of Structural Programming: Sequence, Selection, Repetition (Iteration) |
|  | Advantage of ‘C’ Language, Data types |
|  | Constant, Variable, Keywords, Structure of ‘C’ program |
|  | Arithmetic Operators, bitwise operators, conditional operators |
|  | IF statements, IF-ELSE,NESTED IF |
|  | Switch statements, GoTo Statement |
|  | Tests and Assignment of unit -2 |
| **36-50** | **Unit-III** |
|  | Computer Graphics: - Definition, Role of Graphics in various fields e.g.: (CAD) Computer Aided Design/Drafting Package |
|  | Animators, (DTP) Desktop Packages, Types of Graphics |
|  | Hardware & Software used in Graphics, Graphics Primitives |
|  | Application of Computer Graphics, Graphics Functions |
|  | Types of Printer using in DTP, Types of Graphics Card |
|  | Categories of Fonts, Style and Size |
|  | Tests and Assignment of unit -3 |
| **51-70** | **UNIT-IV** |
|  | Arrays, single dimensional array |
|  | advantages of arrays, string of arrays |
|  | String functions ( strrev, strupr )and programming of these functions without using direct functions |
|  | String functions (strcat, strcpy, strcmp) and programming of these functions without using direct functions |
|  | Tests and Assignment of unit -4 |

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