**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan for Post Graduate (First Semester)**

**Session (2020-2021)**

**Class: PGDCA 1st Sem**  **Name of the Teacher: Dr.Monika Gogna**

**Subject: Computer Programming Using C Paper: PGD-1102**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 03/11/2020 – 07/11/2020 | Problem Identification, Analysis, Flow charts, Decision Tables, |
| Week 2 | 09/11/2020 – 12/11/2020 | Pseudo code and algorithms, Program Coding, Program Testing and Execution. |
| Week 3 | 16/11/2020 – 21/11/2020 | : ‘C’ Language: History, Structure of a C program, Datatypes, Constants and variables, Operators and Expressions, |
| Week 4 | 23/11/2020 – 28/11/2020 | Type casting, Type conversion, Scope Rules:Local and Global variables, I/O functions, Control constructs( Sequencing, alteration and iteration) |
| Week 5 | 01/12/2020 – 05/12/2020 | stdio.h, ctype.h, string.h, math.h, stdlib.h, time.h4.Storage classes:automatic, external, static, register5. |
| Week 6 | 07/12/2020 – 12/12/2020 | Preprocessor: #define, #include, #undef, #conditional compilation directives (#if,#else, #elif, #endif, #ifdef and #ifndef) |
| Week 7 | 14/12/2020 – 18/12/2020 | library functions, user defined functions, scope rule of functions, |
| Week 8 | 21/12/2020 – 26/12/2020 | Parameter passing: call by value and call by reference, Recursion |
| Week 9 | 28/12/2020 – 02/01/2021 | One dimensional and two dimensional arrays, declaring arrays, initializing arrays, |
| Week 10 | 04/01/2021 – 09/01/2021 | processing of arrays, passing arrays as arguments to functions |
| Week 11 | 11/01/2021 – 16/01/2021 | Definition, Declaring pointers, accessing values via pointers, pointer arithmetic, pointer to strings, passing arguments using pointers, array of pointers |
| Week 12 | 18/01/2021 – 23/01/2021 | : Declaring String, built-in string functions-strlen(),strcpy(), strcat(), strcmp(),array of strings, two dimensional array of characters, Array of Pointers to Strings |
| Week 13 | 25/01/2021 – 30/01/2021 | Defining a structure type, declaring variables of structure type, initializing structures. Accessing Structure Elements, array of structures, Array in Structures, Difference between array and structure, nested structures |
| Week 14 | 01/02/2021 – 06/02/2021 | Declaring a Union, Accessing elements of a type union. |
| Week 15 | 08/02/2021 – 13/02/2021 | Console I/O Functions, Formatted Console I/O Functions,sprintf( ) and sscanf( ) Functions, Unformatted Console I/O Functions, gets(), puts() |
| Week 16 | 15/02/2021 – 20/02/2021 | File Operations, Opening a File, File Opening Modes, Readingfrom a File, Trouble in Opening a File, Writing to a File, Closing the File |
| Week 17 | 22/02/2021 – 27/02/2021 | Revision |