**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Session Odd Semester**

**(2018-19)**

**Class: PGDCA Name of the Teacher: Monika Gogna**

**Subject:.Computer Programming Using C Period :5th(2-6days)**

**Paper :PGD-1102 Room No :101 & LAB4**

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| **S. No** | **Date From** | | **Date Upto** | **Topics to be covered** |
| Week 1 | **(For ongoing classes)** | | | ‘C’ Language: History, Structure of a C program, Data types |
| July 24, 2018 | | July 28, 2018 |
| Week 2 | July 30, 2018 | August 4, 2018 | | Constants and variables, Operators and Expressions, Type casting, Type conversion |
| Week 3 | August 6, 2018 | August 11, 2018 | | Scope Rules: Local and Global variables, I/O functions, Control constructs( Sequencing, alteration and iteration) |
| Week 4 | August 13, 2018 | August 18, 2018 | | Problem Identification, Analysis, Flow charts, Decision Tables |
| Week 5 | August 20, 2018 | August 25, 2018 | | Pseudo code and algorithms, Program Coding, Program Testing and Execution |
| Week 6 | August 27, 2018 | September 1, 2018 | | Header files: stdio.h, ctype.h, string.h, math.h, stdlib.h, time.h, Storage classes: automatic, external, static, register |
| Week 7 | September 3, 2018 | September 8, 2018 | | Preprocessor: #define, #include, #undef, #conditional compilation directives (#if, #else, #elif, #endif, #ifdef and #ifndef) |
| Week 8 | September 10, 2018 | September 15, 2018 | | Functions: library functions, user defined functions |
| Week 9 | September 17, 2018 | September 22, 2018 | | scope rule of functions, Parameter passing: call by value and call by reference, Recursion |
| Week 10 | September 24, 2018 | September 29, 2018 | | Arrays: One dimensional and two dimensional arrays, declaring arrays, initializing arrays, processing of arrays, passing arrays as arguments to functions |
| Week 11 | October 1, 2018 | October 8, 2018 | | Pointers: Definition, Declaring pointers, accessing values via pointers, pointer arithmetic, pointer to strings, passing arguments using pointers, array of pointers |
| **MID SEMESTER EXAMINATION (October 11, 2018 to October 17, 2018)** | | | | |
| Week 12 | October 20, 2018 | October 27, 2018 | | Strings: Declaring String, built-in string functions-strlen(),strcpy(), strcat(), strcmp(), |
| Week 13 | October 29, 2018 | November 3, 2018 | | array of strings, two dimensional array of characters, Array of Pointers to Strings |
| Week 14 | November 5, 2018 | November 10, 2018 | | Structure: Defining a structure type, declaring variables of structure type, initializing structures. Accessing Structure Elements, |
| Week 15 | November 12, 2018 | November 17, 2018 | | array of structures, Array in Structures, Difference between array and structure, nested structures, Unions: Declaring a Union, Accessing elements of a type union. |
| Week 16 | November 19, 2018 | November 22, 2018 | | Console Input/Output: Console I/O Functions, Formatted Console I/O Functions, sprintf( ) and sscanf( ) Functions, Unformatted Console I/O Functions, gets(), puts() |
| Week 17 | November 26, 2018 | December 1, 2018 | | File Input/Output: File Operations, Opening a File, File Opening Modes, Reading from a File, Trouble in Opening a File, Writing to a File, Closing the File. |