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

**Teaching Plan (OddSemester) Session (2019-2020)**

**Class:** Physics honours 5th SEM **Name of the Teacher:** Sonika

**Subject:** C programming language **Period: 7th(3,4,7)**

**Paper: Room No: CSE LAB 2**

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| **S.No** | **Dates** | **Topics to be Covered** |
| Week 1 | 23-07-2019 to 27-07-2019 | Types of computer systems and operating systems,Algorithms,Structured programming,Basic idea of compilers,Data types,Constants and varoables,local and global variables. |
| Week 2 | 29-07-2019 to 03-08-2019 | Operators,Expressions and statements,Auto,Static and External variables. |
| Week 3 | 05-08-2019 to 10-08-2019 | Printf,scanf,getc,getch,getchar,getche. |
| Week 4 | 13-08-2019 to 17-08-2019 | Manipulators,Data formatting and Preprocessor ( #include and #define). |
| Week 5 | 19-08-2019 to 24-08-2019 | if-statement, if-else statement,Nested if structure,Else-if statements. |
| Week 6 | 26-08-2019 to 31-08-2019 | Gate statement and switch statement. |
| Week 7 | 02-09-2019 to 07-09-2019 | While loop, Do-while loop, For loop. |
| Week 8 | 09-09-2019to 14-09-2019 | Break and continue statement, Nested loops. One and two dimensional arrays*.* |
| Week 9 | 16-09-2019 to 21-09-2019 | Idea of structures, Strings and pointers, Standard library functions and user defined functions. |
| Week 10 | 23-09-2019 to28-09-2019  (Youth Festival 24-09-2019 to 27-09-2019) | Functions returning values,Function prototypes. |
| Week 11 | 30-09-2019 to 05-10-2019 | Function call by value and function call by reference. |
| **Mid Semester Exams** | | |
| Week 12 | 16-10-2019 to 19-10-2019 | Data handling,Find standard deviation,Mean,Variance,Moments. |
| Week 13 | 21-10-2019 to 26-10-2019 | Program for the least squared fitted curve for a data set. |
| Week 14 | 29-10-2019 to 02-11-2019 | Program to find roots of quadratic equations,and solving a differential equation using euler/Runge-kutta method. |
| Week 15 | 04-11-2019 to 09-11-2019 | Program for first order derivative at given x for a data set using language interpolation. |
| Week 16 | 11-11-2019 to 16-11-2019 | Program for numerical integration on I-D function using simpson method. |
| Week 17 | 18-11-2019 to 23-11-2019 | Program for sum, Difference and product of matrices,determinant of matrix. |
| Week 18 | 25-11-2019 to 30-11-2019 | Program for plotting and evaluation of mathematical functions. |