Saraswati Mahila Mahavidyalaya, Palwal

**Lesson Plan**

**Name of the Assistant/Associate Professor: Ms. Neha Singh**

**Class and Section: BSC C.S IV SEM(II YR)**

**Name of subject: Programming in C and Numerical methods**

**Subject Lesson Plan : 18 weeks(from January 2018 to April 2018)**

**(Note: Prepare as per list of holidays declared by Haryana govt.)**

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| **WEEK 1** |
| **ASSIGNMENT:** |
| **WEEK 1,DAY1 ,DATE :01/01/2018(MONDAY)** |
| **Solution of algebraic and transcendental equations**  **introduction** |
| **WEEK 1 ,DAY 2 ,DATE :02/01/2018(TUESDAY)** |
| **Bolzano or Bisection method and illustrations** |
| **WEEK 1,DAY 3 ,DATE :03/01/2018(WEDNESDAY)** |
| **Method of Regula falsi or False position and its examples** |
| **WEEK 1 ,DAY 4 ,DATE :04/01/2018(THURSDAY)** |
| **Order of convergence of an iterative process and order of convergence**  **Of regula falsi method** |
| **WEEK 1,DAY 5 ,DATE :05/01/2018(FRIDAY)** |
| **Holiday on account of Guru Govind Singh’s Birthday** |
| **WEEK 1 ,DAY 6 ,DATE :06/01/2018(SATURDAY)** |
| **Secant method and its examples** |
| **WEEK 2** |
| **ASSIGNMENT:regula falsi and secant method** |
| **WEEK 2,DAY1 ,DATE :08/01/2018(MONDAY)** |
| **Newton-Raphson method and order of convergence of Newton-Raphson method**  **And comparison of iterative methods** |
| **WEEK 2 ,DAY 2 ,DATE :09/01/2018(TUESDAY)** |
| **Illustrations based on Newton -Raphson method** |
| **WEEK 2,DAY 3 ,DATE :10/01/2018(WEDNESDAY)** |
| **Newton-Raphson iterative formulae for finding the inverse, square roots etc and illustrations** |
| **WEEK 2 ,DAY 4 ,DATE :11/01/2018(THURSDAY)** |
| **Problem discussion** |
| **WEEK 2,DAY 5 ,DATE :12/01/2018(FRIDAY)** |
| **Class test** |
| **WEEK 2 ,DAY 6 ,DATE :13/01/2018(SATURDAY)** |
| **Simultaneous linear algebraic equations**  **introduction** |
| **WEEK 3** |
| **ASSIGNMENT:Newton-Raphson method** |
| **WEEK 3,DAY1 ,DATE :15/01/2018(MONDAY)** |
| **Gauss elimination method**  **And its illustrations** |
| **WEEK 3 ,DAY 2 ,DATE :16/01/2018(TUESDAY)** |
| **Gauss-Jordan method**  **And its examples** |
| **WEEK 3,DAY 3 ,DATE :17/01/2018(WEDNESDAY)** |
| **Triangularisation method(LU Decomposition method)**  **Doolittle's method and its examples** |
| **WEEK 3 ,DAY 4 ,DATE :18/01/2018(THURSDAY)** |
| **Crout's Triangularisation method and its examples** |
| **WEEK 3,DAY 5 ,DATE :19/01/2018(FRIDAY)** |
| **Black board test and problem discussion** |
| **WEEK 3 ,DAY 6 ,DATE :20/01/2018(SATURDAY)**  **Cholesky Decomposition method and its illustrations** |
| **WEEK 4** |
| **ASSIGNMENT: Simultaneous linear algebraic equations** |
| **WEEK 3,DAY1 ,DATE :22/01/2018(MONDAY)** |
| **Holiday on account of Basant Panchmi.** |
| **WEEK 4 ,DAY 2 ,DATE :23/01/2018(TUESDAY)** |
| **Crout's method and examples** |
| **WEEK 4,DAY 3 ,DATE :24/01/2018(WEDNESDAY)** |
| **Holiday on account of Sir Chotu Ram Jayanti.** |
| **WEEK 4 ,DAY 4 ,DATE :25/01/2018(THURSDAY)** |
| **Problem discussion** |
| **WEEK 4,DAY 5 ,DATE :26/01/2018(FRIDAY)** |
| **Holiday on account of Republic Day.** |
| **WEEK 4 ,DAY 6 ,DATE :27/01/2018(SATURDAY)** |
| **Black board test** |
| **WEEK 5** |
| **ASSIGNMENT:triangularisation and crout's method** |
| **WEEK 5,DAY1 ,DATE :29/01/2018(MONDAY)** |
| **Iterative method: Jacobi's method and illustrations** |
| **WEEK 5 ,DAY 2 ,DATE :30/01/2018(TUESDAY)** |
| **Gauss-seidel method and its illustrations** |
| **WEEK 5,DAY 3 ,DATE :31/01/2018(WEDNESDAY)** |
| **Holiday on account of Guru Ravi Dass Jayanti** |
| **WEEK 5 ,DAY 4 ,DATE :01/02/2018(THURSDAY)** |
| **Relaxation method and**    **Its illustrations** |
| **WEEK 5,DAY 5 ,DATE :02/02/2018(FRIDAY)** |
| **Problem discussion** |
| **WEEK 5 ,DAY 6 ,DATE :03/02/2018(SATURDAY)**  **Black board test** |
| **WEEK6** |
| **ASSIGNMENT:Iterative methods** |
| **WEEK 6,DAY1 ,DATE :05/02/2018(MONDAY)** |
| **Computers :a general introduction, programmers modal of computer and algorithms and illustrations** |
| **WEEK 6 ,DAY 2 ,DATE :06/02/2018(TUESDAY)** |
| **Flowcharts and examples based on flow charts** |
| **WEEK 6,DAY 3 ,DATE :07/02/2018(WEDNESDAY)** |
| **Problem discussion** |
| **WEEK 6 ,DAY 4 ,DATE :08/02/2018(THURSDAY)** |
| **Introduction to C,tokens,constants,identifiers** |
| **WEEK 6,DAY 5 ,DATE :09/02/2018(FRIDAY)** |
| **Variables and problems discussions** |
| **WEEK 6 ,DAY 6 ,DATE :10/02/2018(SATURDAY)** |
| **Holiday on account of Maharshi Dayanand Saraswati Jayanti.** |
| **WEEK 7** |
| **ASSIGNMENT:flow charts and algorithms** |
| **WEEK 7,DAY1 ,DATE :12/02/2018(MONDAY)** |
| **Class test** |
| **WEEK 7 ,DAY 2 ,DATE :13/02/2018(TUESDAY)** |
| **Holiday on account of Maha Shivaratri.** |
| **WEEK 7,DAY 3 ,DATE :14/02/2018(WEDNESDAY)** |
| **Data types, qualifiers,variables,declarations,assignment,statement,**  **the typedef declaration, enum declaration** |
| **WEEK 7 ,DAY 4 ,DATE :15/02/2018(THURSDAY)** |
| **Input and output functions(scanf,printf),the new line character,the use of comments, the #include<studio.h>directive,the main function** |
| **WEEK 7,DAY 5 ,DATE :16/02/2018(FRIDAY)** |
| **A typical c program,execution of a C program and problem discussion** |
| **WEEK 7 ,DAY 6 ,DATE :17/01/2018(SATURDAY)** |
| **Group discussion** |
| **WEEK 8** |
| **ASSIGNMENT:data types** |
| **WEEK 8,DAY1 ,DATE :19/02/2018(MONDAY)** |
| **Operators and expressions: introduction,types of operators** |
| **WEEK 8 ,DAY 2 ,DATE :20/02/2018(TUESDAY)** |
| **Operator precedence and problems based on operator precedence and library functions in C** |
| **WEEK 8,DAY 3 ,DATE :21/02/2018(WEDNESDAY)** |
| **Problem discussion** |
| **WEEK 8 ,DAY 4 ,DATE :22/02/2018(THURSDAY)** |
| **Decision control structures:decision statements case control structures** |
| **WEEK 8,DAY 5 ,DATE :23/02/2018(FRIDAY)** |
| **Logical and conditional statements, switch statement** |
| **WEEK 8 ,DAY 6 ,DATE :24/02/2018(SATURDAY)** |
| **Loops:introduction,types of loops, implementation of loops** |
| **WEEK 9** |
| **ASSIGNMENT:loops** |
| **WEEK 9,DAY1 ,DATE :26/02/2018(MONDAY)** |
| **Functions:definition, function call and declaration** |
| **WEEK 9 ,DAY 2 ,DATE :27/02/2018(TUESDAY)** |
| **The C preprocessor:file inclusion directive, macro substitution directives** |
| **WEEK 9,DAY 3 ,DATE :28/02/2018(WEDNESDAY)** |
| **VACATION -II** |
| **WEEK 9 ,DAY 4 ,DATE :01/03/2018(THURSDAY)** |
| **VACATION -II** |
| **WEEK 9,DAY 5 ,DATE :02/03/2018(FRIDAY)** |
| **VACATION -II** |
| **WEEK 9 ,DAY 6 ,DATE :03/03/2018(SATURDAY)** |
| **VACATION -II** |
| **WEEK 10** |
| **ASSIGNMENT:data types,operators and expressions** |
| **WEEK 10,DAY1 ,DATE :05/03/2018(MONDAY)** |
| **Compiler control directives and other directives** |
| **WEEK 10,DAY 2 ,DATE :06/03/2018(TUESDAY)** |
| **Problem discussion** |
| **WEEK 10,DAY 3 ,DATE :07/03/2018(WEDNESDAY)** |
| **Arrays:introduction, types of array and initialization and declaration of arrays** |
| **WEEK 10,DAY 4 ,DATE :08/03/2018(THURSDAY)** |
| **Peer's-group discussion** |
| **WEEK 10,DAY 5 ,DATE :09/03/2018(FRIDAY)** |
| **Assignment discussion** |
| **WEEK 10 ,DAY 6 ,DATE :10/03/2018(SATURDAY)** |
| **Puppetting of strings: introduction,an overview of strings,reading strings and getchar and gets functions** |
| **WEEK 11** |
| **ASSIGNMENT:puppetting of strings** |
| **WEEK 11,DAY1 ,DATE :12/03/2018(MONDAY)** |
| **Writing strings to screen,concatenation of strings,strcat( ) function and**  **strncat( ) function and declaration** |
| **WEEK 11,DAY 2 ,DATE :13/03/2018(TUESDAY)** |
| **Copying strings,strncpy( ) function,comparison of strings,**  **Strcmp( ) function,strncmp( )function,extraction of strings** |
| **WEEK 11,DAY 3 ,DATE :14/03/2018(WEDNESDAY)** |
| **Computer lab** |
| **WEEK 11,DAY 4 ,DATE :15/03/2018(THURSDAY)** |
| **Computer lab** |
| **WEEK 11,DAY 5 ,DATE :16/03/2018(FRIDAY)** |
| **Computer lab** |
| **WEEK**  **11 ,DAY 6 ,DATE :17/03/2018(SATURDAY)** |
| **Computer lab** |
| **WEEK 12** |
| **ASSIGNMENT:** |
| **WEEK 12,DAY1 ,DATE :19/03/2018(MONDAY)** |
| **Structures and unions:introduction,defining a structure,declaring structure variables,dot operator initialization,copying and comparing structure variables** |
| **WEEK 12,DAY 2 ,DATE :20/03/2018(TUESDAY)** |
| **The size of operator,structure of arrays,array of structure,structure with in structures,Structures and functions,unions** |
| **WEEK 12,DAY 3 ,DATE :21/03/2018(WEDNESDAY)** |
| **Computer lab** |
| **WEEK 12,DAY 4 ,DATE :22/03/2018(THURSDAY)** |
| **Computer lab** |
| **WEEK 12,DAY 5 ,DATE :23/03/2018(FRIDAY)** |
| **Holiday on account of Shahidi diwas.** |
| **WEEK 12 ,DAY 6 ,DATE :24/03/2018(SATURDAY)** |
| **Computer lab** |
| **WEEK 13** |
| **ASSIGNMENT:structures and unions** |
| **WEEK 13,DAY1 ,DATE :26/03/2018(MONDAY)** |
| **Pointers:introduction,pointers data type,**  **Pointers and arrays** |
| **WEEK 13,DAY 2 ,DATE :27/03/2018(TUESDAY)** |
| **Pointers to functions,pointers and structures** |
| **WEEK 13,DAY 3 ,DATE :28/03/2018(WEDNESDAY)** |
| **Computer lab** |
| **WEEK 13,DAY 4 ,DATE :29/03/2018(THURSDAY)** |
| **Holiday on account of Mahavir jayanti.** |
| **WEEK 13,DAY 5 ,DATE :30/03/2018(FRIDAY)** |
| **Computer lab** |
| **WEEK 13 ,DAY 6 ,DATE :31/03/2018(SATURDAY)** |
| **Computer lab** |
| **WEEK 14** |
| **ASSIGNMENT:pointers** |
| **WEEK 14,DAY1 ,DATE :02/04/2018(MONDAY)** |
| **Files in C : Introduction,the file type,random access to files** |
| **WEEK 14,DAY 2 ,DATE :03/04/2018(TUESDAY)** |
| **Unformatted data files,error handling during file operatons,text files and binary files** |
| **WEEK 14,DAY 3 ,DATE :04/04/2018(WEDNESDAY)** |
| **Computer lab** |
| **WEEK 14,DAY 4 ,DATE :05/04/2018(THURSDAY)** |
| **Computer lab** |
| **WEEK 14,DAY 5 ,DATE :06/04/2018(FRIDAY)** |
| **Computer lab** |
| **WEEK 14 ,DAY 6 ,DATE :07/04/2018(SATURDAY)** |
| **Computer lab** |
| **WEEK 15** |
| **ASSIGNMENT:file inC** |
| **WEEK 15,DAY1 ,DATE :09/04/2018(MONDAY)** |
| **Miscellaneous features and advanced topics storage classes,automatic variables,register**  **Variables,external variables** |
| **WEEK 15,DAY 2 ,DATE :10/04/2018(TUESDAY)** |
| **Multifile programs, declaring a variable as constant,declaring a variable as**  **volatile** |
| **WEEK 15,DAY 3 ,DATE :11/04/2018(WEDNESDAY)** |
| **Computer lab** |
| **WEEK 15,DAY 4 ,DATE :12/04/2018(THURSDAY)** |
| **Computer lab** |
| **WEEK 15,DAY 5 ,DATE :13/04/2018(FRIDAY)** |
| **Computer lab** |
| **WEEK 15 ,DAY 6 ,DATE :14/04/2018(SATURDAY)** |
| **Holiday on account of Vaisakhi & Dr B.R. Ambedkar’s Jayanti.** |
| **WEEK 16** |
| **ASSIGNMENT:** |
| **WEEK 16,DAY1 ,DATE :16/04/2018(MONDAY)** |
| **Problem discussion** |
| **WEEK 16,DAY 2 ,DATE :17/04/2018(TUESDAY)** |
| **Class test** |
| **WEEK 16,DAY 3 ,DATE :18/04/2018(WEDNESDAY)** |
| **Holiday on account of Maharshi Pasuram Jayanti** |
| **WEEK 16,DAY 4 ,DATE :19/04/2018(THURSDAY)** |
| **Computer lab** |
| **WEEK 16,DAY 5 ,DATE :20/04/2018(FRIDAY)** |
| **Computer lab** |
| **WEEK 16 ,DAY 6 ,DATE :21/04/2018(SATURDAY)** |
| **Computer lab** |
| **WEEK 17** |
| **ASSIGNMENT:** |
| **WEEK 17,DAY1 ,DATE :23/04/2018(MONDAY)** |
| **Computer lab** |
| **WEEK 17,DAY 2 ,DATE :24/04/2018(TUESDAY)** |
| **revision** |
| **WEEK 17,DAY 3 ,DATE :25/04/2018(WEDNESDAY)** |
| **revision** |
| **WEEK 17,DAY 4 ,DATE :26/04/2018(THURSDAY)** |
| **revision** |
| **WEEK 17,DAY 5 ,DATE :27/04/2018(FRIDAY)** |
| **revision** |
| **WEEK 17 ,DAY 6 ,DATE :28/04/2018(SATURDAY)** |
| **revision** |
| **WEEK 18** |
| **ASSIGNMENT:** |
| **WEEK 18,DAY1 ,DATE :30/04/2018(MONDAY)** |
| **revision** |