

Saraswati Mahila Mahavidyalaya, Palwal

Lesson Plan :

Name of the Assistant/Associate Professor: Soniya Rani

Class and Section: Bsc (CS) 1st year (2nd semester)

Name of subject: Programming in C. (Theory & Lab)

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

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

WEEK 1
ASSIGNMENT: Algorithm and flowchart.
WEEK 1, DAY 1, DATE :01/01/2018(MONDAY)
<u>Unit-I</u> Basic concepts of programming. <u>Lab group-I</u> What is computer language and their types.
WEEK 1, DAY 2, DATE :02/01/2018(TUESDAY)
Techniques of problem solving. lab - What is linker, loader and editor.
WEEK 1, DAY 3, DATE :03/01/2018(WEDNESDAY)
Algorithm designing. <u>group II</u> What is computer language and their types.
WEEK 1, DAY 4, DATE :04/01/2018(THURSDAY)
Practice of algorithms. lab - What is linker, loader, editor.
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)

lab:- Programme based on do while loop,
break and continue.

WEEK 11, DAY 3, DATE :14/03/2018(WEDNESDAY)

Discussion on branching and looping statements.

Group II lab Programme based on for loop, while loop
and do-while loop.

WEEK 11, DAY 4, DATE :15/03/2018(THURSDAY)

Practice of examples on looping statement.

lab: Practice on loop programme.

WEEK 11, DAY 5, DATE :16/03/2018(FRIDAY)

Practice of Branching and looping statements.

Group III Programme based on while loop, do-while
loop using break and continue statement.

WEEK 11, DAY 6, DATE :17/03/2018(SATURDAY)

Presentation on all control flow structures.

lab:- Practice on looping programme.

WEEK 12

ASSIGNMENT:

WEEK 12, DAY 1, DATE :19/03/2018(MONDAY)

Introduction to functions.

Prototype of functions.

Group-I Programme on functions.

WEEK 12, DAY 2, DATE :20/03/2018(TUESDAY)

function definition

lab:- Practice of functions.

WEEK 12, DAY 3, DATE :21/03/2018(WEDNESDAY)

function calling statement. Passing parameters
by call by value and call by references.
Group II Programme to implement the functions.

WEEK 12, DAY 4, DATE :22/03/2018(THURSDAY)

Programme practice of functions
Lab Practice of functions.

WEEK 12, DAY 5, DATE :23/03/2018(FRIDAY)

Holiday on account of Shahidi diwas.

WEEK 12, DAY 6, DATE :24/03/2018(SATURDAY)

Presentation on functions.
Group II Programme to implement the functions.

WEEK 13

ASSIGNMENT:

WEEK 13, DAY 1, DATE :26/03/2018(MONDAY)

Recursive functions.
Group I WAP to recursive functions.

WEEK 13, DAY 2, DATE :27/03/2018(TUESDAY)

Test of complete third unit.
Lab:- Practice.

WEEK 13, DAY 3, DATE :28/03/2018(WEDNESDAY)

Test distribute with their explanations.

Group-II

lab:- WAP to recursive functions.

WEEK 13, DAY 4, DATE :29/03/2018(THURSDAY)

Holiday on account of Mahavir jayanti.

WEEK 13, DAY 5, DATE :30/03/2018(FRIDAY)

Unit-IV Introduction to Pointers.

Declaration and initialization of pointers.

Group III WAP to recursive functions.

WEEK 13, DAY 6, DATE :31/03/2018(SATURDAY)

operations on pointers.

lab:- Programme based on pointers.

WEEK 14

ASSIGNMENT:

WEEK 14, DAY 1, DATE :02/04/2018(MONDAY)

Introduction to array.
One dimensional array.

Group I Programme based on pointers.

WEEK 14, DAY 2, DATE :03/04/2018(TUESDAY)

Multidimensional array and their programme.

lab Programme based on one dimensional
and two dimensional array.

WEEK 14, DAY 3, DATE :04/04/2018(WEDNESDAY)

Array of Pointers.

Group II lab WAP to implement the pointers.

WEEK 14, DAY 4, DATE :05/04/2018(THURSDAY)

Pointers to array.

lab :- Programme based on array and pointers.

WEEK 14, DAY 5, DATE :06/04/2018(FRIDAY)

Discussion / Taking problems on Pointers.

Group III Programmes based on pointers.

WEEK 14, DAY 6, DATE :07/04/2018(SATURDAY)

Presentation of Pointers.

lab Programmes based on array.

WEEK 15

ASSIGNMENT:

Pointer and Array.

WEEK 15, DAY 1, DATE :09/04/2018(MONDAY)

Introduction to the string.

string declaration, initialisation. string constants
Group I Programme based on strings.

WEEK 15, DAY 2, DATE :10/04/2018(TUESDAY)

Input and output of strings.

lab :- Practice of string programme.

WEEK 15, DAY 3, DATE : 11/04/2018 (WEDNESDAY)

String functions and their programme.
Group II Programme based on string.

WEEK 15, DAY 4, DATE : 12/04/2018 (THURSDAY)

String functions.
Lab:- Practice on string programme.

WEEK 15, DAY 5, DATE : 13/04/2018 (FRIDAY)

String functions
Group III Programme based on string.

WEEK 15, DAY 6, DATE : 14/04/2018 (SATURDAY)

Holiday on account of Vaisakhi & Dr B.R. Ambedkar's Jayanti.

WEEK 16

ASSIGNMENT: String functions.

WEEK 16, DAY 1, DATE : 16/04/2018 (MONDAY)

Presentation on strings.
Group I Lab → Practice on string programme.

WEEK 16, DAY 2, DATE : 17/04/2018 (TUESDAY)

Introduction to structure.
Lab:- Programme based on structure.

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)

structure based programme.
Group II Programme based on structure.

WEEK 16, DAY 5, DATE :20/04/2018(FRIDAY)

structure and unions.
Group III Programme based on structure.

WEEK 16, DAY 6, DATE :21/04/2018(SATURDAY)

Introduction to file.
Lab:- Practice

WEEK 17

ASSIGNMENT:

WEEK 17, DAY 1, DATE :23/04/2018(MONDAY)

file handling, standard I/O text file.
Group I Practice on structure.

WEEK 17, DAY 2, DATE :24/04/2018(TUESDAY)

Reading a file.
Lab:- Programme based on file.

WEEK 17, DAY 3, DATE :25/04/2018(WEDNESDAY)

Writing to file.
Group II Programme based on files.

WEEK 17, DAY 4, DATE : 26/04/2018 (THURSDAY)

Test of complete fourth unit.
Lab: - Programme based on file.

WEEK 17, DAY 5, DATE : 27/04/2018 (FRIDAY)

Revision of complete syllabus.
Group III Programme based on file.

WEEK 17, DAY 6, DATE : 28/04/2018 (SATURDAY)

Revision.
Lab: - Practice

WEEK 18

ASSIGNMENT:

WEEK 18, DAY 1, DATE : 30/04/2018 (MONDAY)

Revision.
Lab: - Practice

Sonijs

flowcharts → Introductions, symbols and their designing.

Group III What is computer language, linker, loader and editor?

WEEK 2

ASSIGNMENT:

WEEK 2, DAY 1, DATE : 08/01/2018 (MONDAY)

Practice on flowcharts.

Group I What is Preprocessor directives and Header files.

WEEK 2, DAY 2, DATE : 09/01/2018 (TUESDAY)

Presentation on algorithms.

lab - What is main() function,
What is constant and variables.

WEEK 2, DAY 3, DATE : 10/01/2018 (WEDNESDAY)

Presentations on flowcharts

Gr-II What is preprocessor directives and Header files

WEEK 2, DAY 4, DATE : 11/01/2018 (THURSDAY)

Concept of structured programming.

Top to Down and bottom to up design.

lab - What is main function, variables and constants.

WEEK 2, DAY 5, DATE : 12/01/2018 (FRIDAY)

Development of efficient program.

Gr-III What is preprocessor directives and Header files

WEEK 2, DAY 6, DATE : 13/01/2018 (SATURDAY)

Program correctness, debugging and testing.

lab - What is main function, variables and constants

WEEK 3
ASSIGNMENT: <u>Structured Programming.</u>
WEEK 3, DAY 1, DATE :15/01/2018(MONDAY)
Algorithm for linear search. <u>Group I</u> Lab - How to input and output in c-language. What is clrscr() and getch().
WEEK 3, DAY 2, DATE :16/01/2018(TUESDAY)
Algorithm for Binary search. Lab - How to create and save a programme. How to compile and run a programme.
WEEK 3, DAY 3, DATE :17/01/2018(WEDNESDAY)
Insertion Sorting. <u>Group II</u> How to input and output in c-language. What is clrscr() and getch().
WEEK 3, DAY 4, DATE :18/01/2018(THURSDAY)
Exchange Sorting. <u>Lab</u> How to create and save a programme. How to compile and run a programme.
WEEK 3, DAY 5, DATE :19/01/2018(FRIDAY)
Presentation on searching and sorting. <u>Gr III</u> How to input and output in c-language. What is clrscr() and getch().
WEEK 3, DAY 6, DATE :20/01/2018(SATURDAY)
Merging of order-list. Lab - How to create and save a programme How to compile and run a programme.
WEEK 4
ASSIGNMENT: <u>Searching and sorting.</u>
WEEK 3, DAY 1, DATE :22/01/2018(MONDAY)

Holiday on account of Basant Panchmi.

WEEK 4, DAY 2, DATE :23/01/2018(TUESDAY)

Test on 1st unit.
Gr I Write a programme to sum of two numbers.

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)

Test distribute with explanations.
Group II lab - write a programme to sum of two numbers.

WEEK 4, DAY 5, DATE :26/01/2018(FRIDAY)

Holiday on account of Republic Day.

WEEK 4, DAY 6, DATE :27/01/2018(SATURDAY)

Discuss on 1st unit.
Group III Write a programme to sum of two numbers.

WEEK 5

ASSIGNMENT:

WEEK 5, DAY 1, DATE :29/01/2018(MONDAY)

Unit - II History and Importance of C-language.
Group I WAP to multiply and divide two numbers.

WEEK 5, DAY 2, DATE :30/01/2018(TUESDAY)

Structure of C-program.
lab Practice.

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)

Element of C language, character set, identifiers and keywords.

Group-II WAP to multiply and divide the two numbers.

WEEK 5, DAY 5, DATE :02/02/2018(FRIDAY)

Variable, Constant, Data types definition and their declarations.

Group-III WAP to multiply and divide the two numbers.

WEEK 5, DAY 6, DATE :03/02/2018(SATURDAY)

Introduction to operators., Arithmetic operators.

Lab:- Practice.

WEEK 6

ASSIGNMENT: Data types.

WEEK 6, DAY 1, DATE :05/02/2018(MONDAY)

Relational operator, their precedence, Example.

Group I write programme based on arithmetic and relational operators.

WEEK 6, DAY 2, DATE :06/02/2018(TUESDAY)

Logical and Bitwise operators.

lab:- examples based on operators.

WEEK 6, DAY 3, DATE :07/02/2018(WEDNESDAY)

Unary, assignment and conditional operators.

Group II write programme based on arithmetic and relational operators.

WEEK 6, DAY 4, DATE :08/02/2018(THURSDAY)

operator hierarchy and their associativity.

lab Programme based on operators.

WEEK 6, DAY 5, DATE :09/02/2018(FRIDAY)

Presentation on operators.
Group-III Programme based on operators.

WEEK 6, DAY 6, DATE :10/02/2018(SATURDAY)

Holiday on account of Maharshi Dayanand Saraswati Jayanti.

WEEK 7

ASSIGNMENT: operators and their hierarchy.

WEEK 7, DAY 1, DATE :12/02/2018(MONDAY)

Input and Output statements.
Group I Programme based on operators.

WEEK 7, DAY 2, DATE :13/02/2018(TUESDAY)

Holiday on account of Maha Shivaratri.

WEEK 7, DAY 3, DATE :14/02/2018(WEDNESDAY)

Arithmetic expression. Evaluation of arithmetic expression.
Group-II Programme on arithmetic expression.

WEEK 7, DAY 4, DATE :15/02/2018(THURSDAY)

Taking problems on operators and arithmetic expression.
lab - Practice.

WEEK 7, DAY 5, DATE :16/02/2018(FRIDAY)

Presentation on Arithmetic expression.
Group-III Programme based on arithmetic expression.

WEEK 7, DAY 6, DATE :17/02/2018(SATURDAY)

Type Casting and Conversion.

lab:- Practice on arithmetic expression programme.

WEEK 8

ASSIGNMENT:

WEEK 8, DAY 1, DATE : 19/02/2018 (MONDAY)

Type Casting and Conversion.

Group-I Programme based on type casting.

WEEK 8, DAY 2, DATE : 20/02/2018 (TUESDAY)

Practice of example based on operator,
arithmetic expression and type casting.

lab:- Practice of programme.

WEEK 8, DAY 3, DATE : 21/02/2018 (WEDNESDAY)

Test of complete second unit.

Group-II lab Programme based on type casting.

WEEK 8, DAY 4, DATE : 22/02/2018 (THURSDAY)

Unit-III Introduction to control flow structure.

lab- Practice.

WEEK 8, DAY 5, DATE : 23/02/2018 (FRIDAY)

Decision making with if statement.

their syntax, flowchart and example.

Group-III Programme on type casting.

WEEK 8, DAY 6, DATE : 24/02/2018 (SATURDAY)

Decision making with if-else statement.

their syntax, flowchart and example.

lab:- Programme based on if, if-else statement.

WEEK 9

ASSIGNMENT:

WEEK 9, DAY 1, DATE :26/02/2018(MONDAY)

Decision making with nested-if statement.
syntax and its flowchart.

Group I Programme based on if-else and nested-if
statement.

WEEK 9, DAY 2, DATE :27/02/2018(TUESDAY)

Decision making with else-if ladder.
syntax and flowchart.

lab:- Practice.

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:

WEEK 10, DAY 1, DATE :05/03/2018(MONDAY)

Test of 1st unit.

Group-I Programme based on nested if and
else-if ladder.

WEEK 10, DAY 2, DATE :06/03/2018(TUESDAY)

Switch statement :- syntax, flowcharts and examples.

Group I Lab :- Programme based on switch statement.

WEEK 10, DAY 3, DATE :07/03/2018(WEDNESDAY)

Goto statement - forward jump and backward jump.

Group II Lab :- Programme based on if-else and nested-if.

WEEK 10, DAY 4, DATE :08/03/2018(THURSDAY)

Presentation on Decision making and branching statement.

Lab :- Programme based on switch statement.

WEEK 10, DAY 5, DATE :09/03/2018(FRIDAY)

Looping structure, Entry and exit controlled loop.

Group III Lab Programme based on switch statement.

WEEK 10, DAY 6, DATE :10/03/2018(SATURDAY)

for loop and while loop

Lab :- Programme based on for loop.

WEEK 11

ASSIGNMENT: Branching And looping statement.

WEEK 11, DAY 1, DATE :12/03/2018(MONDAY)

Do-while loop statement.

Group I Programme based on for-loop and while loop.

WEEK 11, DAY 2, DATE :13/03/2018(TUESDAY)

Jump in loop, Break and continue statement.