

Scheme of work

Name of Faculty : Ms. Anshu Sharma

Discipline : Computer Science & Engineering

Semester : Ist

Subject : Advanced Programming in C (BCA-121)

Lesson Plan duration : 15 weeks (From January, 2020 to June, 2020)

Work load(Lecture/Practical)per week(in hours) - Lecture - 03, Practical - 02

Week	Lecture Day	Theory Topic (including assignment/test)	Practical	
			Practical 1 Day	Topic
1st	I	Strings in 'C': Introduction	1	Program to print a string.
	II	Declaration of string		
	III	Initialization of string		
2nd	I	String I/O, Array of strings	2	Write a program to reverse a given string.
	II	String manipulation functions		
	III	String length, copy		
3rd	I	Compare, concatenate of strings	3	Write a program to find the length of a string.
	II	search for a substring		
	III	Structure : introduction		
4th	I	Union: Introduction	4	Write a program to copy one string to another.
	II	Features of structures		
	III	Declaration and initialization of structures		
5th	I	Structure within structure		Write a program to

	II	Array of structures	5	compare two strings
	III	Structure and functions		
6th	I	Union of structures.	6	Program to concatenate two different strings.
	II	Typedef, Enumerations		
	III	Revision of Unit 1		
7th	I	Pointers: Introduction	7	Write a program to search for a sub string of a string.
	II	Pointer variables, Pointer operators		
	III	Pointer assignment, Pointer conversions		
8th	I	Pointer arithmetic, Pointer comparison	8	Write a program to apply assignment operator on a pointer.
	II	Pointers and arrays		
	III	Pointers and functions		
9th	I	Pointers and strings	9	Write a program to find the location of an array elements using a pointer.
	II	Pointer to pointer		
	III	Dynamic allocation using pointers		
10th	I	Revision of Unit 2	10	Write a program to read an array of numbers and find the largest number in it using pointer.
	II	Files: Introduction		
	III	File types		
11th	I	File operations	11	Write a simple program to show the element of a structure are always stored in contiguous memory location.
	II	File I/O		
	III	Structure Read and write in a file		
12th	I	Errors in file handling		Write a program to define a structure
	II	Random-access I/O in files		

	III	Revision of Unit 3	12	within another
13th	I	Preprocessor: Introduction	13	Write a program to declare and access data members using Union
	II	#define, macros		
	III	macro versus functions		
14th	I	Conditional compilation directives	14	Write a simple program to define and use of macro.
	II	undefining a macro		
	III	Introduction of Command line arguments		
15 th	I	Defining and using command line arguments	15	Internal viva
	II	Revision of Unit 4		
	III	Revision of Unit 4		