

## Lesson Plan

**Name of Institute** : Ambala College of Engineering and Applied Research, Devsthali.

**Name of the Faculty Member** : Miss. Priyanka Gulati

**Discipline** : Computer Science Department

**Semester** : 2<sup>nd</sup>

**Subject** : Programming For Problem Solving-105A

: Programming For Problem Solving Lab ES-107LA

**Lesson Plan Duration** : 15 weeks (from January 2020-April, 2020)

**Work Load** : L-3, T-1, P-3

Week	Theory		Practical	
	Lecture day	Topic (including assignment/ test)	Practical day	Topic
1 <sup>st</sup>	1 <sup>st</sup>	Overview of Computers: Block diagram and its description	1 <sup>st</sup>	Write a Program to Find The Sum of Given Numbers
	2 <sup>nd</sup>	Introduction to programming language		
	3 <sup>rd</sup>	Different Level of Programming Language		
2 <sup>nd</sup>	4 <sup>th</sup>	Computer Hardware	2 <sup>nd</sup>	Write a Program to Find The Fibonacci Sequence
	5 <sup>th</sup>	Storage Devices		
	6 <sup>th</sup>	Number System		
3 <sup>rd</sup>	7 <sup>th</sup>	Arithmetic of number systems	3 <sup>rd</sup>	Write a Program to Find The Factorial of Given Number
	8 <sup>th</sup>	Introduction to Compiler, Interpreter, Debugger, Linker, Loader, Assembler		
	9 <sup>th</sup>	Problem Analysis: Problem solving techniques Algorithms and Flowchart		
4 <sup>th</sup>	10 <sup>th</sup>	Overview of C, Data Types	4 <sup>th</sup>	Write a Program to Find Given Number is Prime or Not
	11 <sup>th</sup>	Storage Classes in C		
	12 <sup>th</sup>	Operators in C		
5 <sup>th</sup>	13 <sup>th</sup>	Input – Output Function in C	5 <sup>th</sup>	Write A Program For Addition of Two Matrices
	14 <sup>th</sup>	Operators in C: Repetition		
	15 <sup>th</sup>	Control Statements: if and switch		
6 <sup>th</sup>	16 <sup>th</sup>	Control Statements: Repetition	6 <sup>th</sup>	Write A Program For

	17 <sup>th</sup>	Break, continue and goto statements		Multiplication of Two Matrices
	18 <sup>th</sup>	Arrays- Definition and Types		
7 <sup>th</sup>	19 <sup>th</sup>	Function	7 <sup>th</sup>	Write A Program to Concatenate Two Strings
	20 <sup>th</sup>	Parameter passing technique		
	21 <sup>st</sup>	Parameter passing technique- Repetition		
8 <sup>th</sup>	22 <sup>nd</sup>	Functions and Parameter passing including Array	8 <sup>th</sup>	Write A Program to Check Input String Is Palindrome or not
	23 <sup>rd</sup>	Returning Array from Function		
	24 <sup>th</sup>	Recursion		
9 <sup>th</sup>	25 <sup>th</sup>	Pointer and its Operation	9 <sup>th</sup>	Write A Program to Find roots of Quadratic Equation
	26 <sup>th</sup>	Pointers, Arrays and Dynamic memory allocation		
	27 <sup>th</sup>	Pointers and functions		
10 <sup>th</sup>	28 <sup>th</sup>	Pointers and strings	10 <sup>th</sup>	Write A Program to Read a String and Write it in Reverse Order
	29 <sup>th</sup>	Structure, Union and usage		
	30 <sup>th</sup>	Structure and pointers Passing structure to function		
11 <sup>th</sup>	31 <sup>st</sup>	Data Files	11 <sup>th</sup>	Write A Program to Reverse the First N character in a file
	32 <sup>nd</sup>	File handling in C		
	33 <sup>rd</sup>	Input-Output Operation		

Miss. Priyanka Gulati

Assistant Professor

CSE Department

ACE

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### Syllabus for Sessionals

<b>1<sup>st</sup> Sessional</b>
<b>Block Diagram of Computer</b>
<b>Number System</b>
<b>Computer hardware</b>
<b>Storage Devices</b>
<b>Different Level Of Programming Language</b>
<b>Introduction to Compiler Interpreter, Debugger, Loader , Assembler</b>
<b>Problem Solving Technique, Algorithm and Flow Chart</b>
<b>2<sup>nd</sup> Sessional</b>
<b>Data Types</b>
<b>Storage Classes In C</b>
<b>Operator Like Arithmetic, Relational, Logical, Assignment Operator</b>
<b>I/ O function in C</b>
<b>Control Statement in C</b>
<b>Array Definition, Types</b>
<b>String Handling</b>
<b>Parameter Passing Technique</b>
<b>Passing Array to Function</b>
<b>Returning Array from Function</b>
<b>3<sup>Rd</sup> Sessional</b>
<b>Declaration of Pointer</b>

<b>Operation on Pointer</b>
<b>Pointer and Array</b>
<b>Dynamic Memory Allocation</b>
<b>Structure and Union</b>
<b>Passing Structure to Function</b>
<b>Data Files</b>
<b>I/O Operation on Files</b>

**Miss. Priyanka Gulati**

**Assistant Professor**