PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

LESSON PLAN

Semester: 3rd Sem

Subject Name: Object Oriented Programming Subject

Subject Code: PC-CS-203A

Sr.	Lecture	Topics to Be Covered
No.	No.	
1	L 1	Introduction to C++, C++ Standard Library
2	L 2	Illustrative Simple C++ Programs
3	L 3	Header Files, Applications of Object Oriented
		Programming
4	L 4	Namespaces
5	L 5	Object Oriented Concepts, Introduction to Objects and
		Object Oriented Programming
6	L 6	Encapsulation, Polymorphism, Overloading
7	L 7	Inheritance, Abstract Classes, Access specifier (public/
		protected/ private)
8	L 8	Class Scope and Accessing Class Members
9	L 9	Controlling Access Function, Constant
10	L 10	Class Member, Structure and Class
11	L 11	Friend Function and Friend Classes
12	L 12	This Pointer, Dynamic Memory Allocation and De-
		allocation (New and Delete)
13	L 13	Static Class Members, Constructors
14	L 14	Parameterized Constructors and Copy Constructors,
		Destructors
15	L 15	Introduction to Inheritance, Types of Inheritance,
		Overriding Base Class Members in a Derived Class
16	L16	Public, Protected and Private Inheritance
17	L 17	Inheritance Vs Composition
18	L 18	Effect of Constructors and Destructor of Base Class in
		Derived Classes

19	L 19	Polymorphism, Pointer to Derived class
20	L 20	Virtual Functions, Pure Virtual Function
21	L 21	Abstract Base Classes, Static and Dynamic Binding,
		Virtual Destructor
22	L 22	Fundamentals of Operator Overloading
23	L 23	Rules for Operators Overloading
24	L 24	Implementation of Operator Overloading like <<,>>
25	L 25	Unary Operators, Binary Operators.
26	L 26	Text Streams and binary stream
27	L 27	Sequential access of file
28	L 28	Opening and closing of file, Detecting end of file
29	L 29	Opening modes of files
30	L29	File pointers and their manipulation
31	L 30	Error Handling
32	L31	Random Access File, Updating Random Access file
33	L32	Stream Input/ Output Classes
34	L32	Stream Manipulators
35	L33	Basics of C++ Exception Handling, Try, Throw, Catch,
		multiple catch
36	L34	Re-throwing an Exception, Exception specifications.
37	L35	Templates: Function Templates Overloading Template
0,	100	Function
20	1.20	Overlanding Template Experience
30	L38	Overloading rempiate runctions
39	L39	Class Template, Class template and Non-Type Parameters
40	L40	Standard Template Library

(COURSE INCHARGE)