		Lesson Plan
Name of Faculty	:	Ms.Bharti Sethi, Assistant Professor, CSE
Discipline	:	Computer Science and Engineering
Semester	:	3 rd sem(odd)
Subject	:	Object Oriented Programming using C++ (IT-202E)
Lesson Plan Duration	:	15 weeks (from August2022 to Dec-2022)
Work Load (Lectures) per w	eek (in hours)	: Lectures-03 hours
Week		Theory

Week	d (Lectures) per week (in hours): Lectures-03 hours Theory			Topic Covered, Date and Remarks		
	Lecture- Day	Topic (Including Assignment/Test)	Date	HOD	Director- Principal	
1 st	1.	Introduction to C++,C++ Standard Library, Basics of a Typical C++ Environment				
	2	Pre-processors Directives, Illustrative Simple C++ Programs				
	3	Header Files and Namespaces, library files.				
2nd	4	Introduction to Objects and Object Oriented Programming,				
	5	Access Modifiers: Controlling access to a class method				
	6	variable (public, protected, private, package)				
	7	Polymorphism: Overloading,				
3 rd	8	Encapsulation (Information Hiding)				
	9	Inheritance, and their types				
	10	Overriding Methods				
4 th	11	Abstract Classes, Reusability, Class's Behaviour				
-	12	Classes and Data Abstraction: Introduction, Structure Definitions, Accessing Members of Structures				
	13	Class Scope and Accessing Class Members				
5 th	14	Controlling Access Function And Utility Functions		1 1		
C	15	Class Objects: Constructors, Using Default Arguments With Constructors				
6 th	16	Using Destructors, Classes : Const(Constant) Object And Const Member Functions				
	17	Initializing Object as Member of Classes, Friend Function and Friend Classes				
	18	Using This Pointer, Separating Interface from Implementation				
7 th		1 st Minor Test				
	19	Container Classes And Integrators				
8 th	20	Proxy Classes, Function overloading.				
	21	Operator Overloading: Introduction, Fundamentals of Operator Overloading, Restrictions On Operators Overloading				
9 th	22	Operator Functions as Class Members vs. as Friend Functions, Overloading				
	23	<<, >> Overloading Unary Operators, Overloading Binary Operators				
	24	Inheritance: Introduction, Inheritance: Base Classes And Derived Classes				
	25	Protected Members, Public, Protected and Private Inheritance				
10 th	26	Casting Base- Class Pointers to Derived- Class Pointers				
	27	Using Member Functions, Overriding Base –Class Members in a Derived Class				
11 th	28	Using Constructors and Destructors in derived Classes				
	29	Implicit Derived Class Object To Base- Class Object Conversion				
	30	Virtual Functions and Polymorphism: Introduction to Virtual Functions, Polymorphism				
12 th	31	Abstract Base Classes And Concrete Classes, Dynamic Binding				
	32	New Classes And Virtual Destructors				
	33	Files and I/O Streams: Files and Streams, Creating a Sequential				
		Access Creating A Random Access File				
13 th	34	Unformatted I/O (with read and write)				
	35	Reading Data Sequentially from a Random Access File.				
	36	File Reading Data From A Sequential Access File, Updating Sequential Access Files, Random Access Files				
14 th				••••		
	37	Templates & Exception Handling: Function Templates				
15 th	38	Overloading Template Functions				
	39	Throwing an Exception, Catching an Exception Rethrowing an Exception				

Sr.	Comments	HOD	Director- Principal
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