

LESSON PLAN (SESSION 2024-25)

CLASS:-B.C.A SEM:- 2ND FACULTY NAME :- PRIYANSHU SRIVASTAVA

SUBJECT:-Intro to Object Oriented Programming & C++ (109N)

S.N o.	Date.	Day	Paper No.	Unit Name.	Topic.
1	16-Jan-25	Thursday	9	Principles of Object Oriented Programming (OOP)	Basic Concepts of OOP
2	17-Jan-25	Friday	9	Principles of Object Oriented Programming (OOP)	Basic Concepts of OOP
3	18-Jan-25	Saturday	9	Principles of Object Oriented Programming (OOP)	Comparison of procedural programming and OOP, Advantages of OOP
4	20-Jan-25	Monday	9	Principles of Object Oriented Programming (OOP)	Comparison of procedural programming and OOP, Advantages of OOP
5	21-Jan-25	Tuesday	9	Principles of Object Oriented Programming (OOP)	Operator overloading, Dynamic binding. Over view of OOP using C++
6	22-Jan-25	Wednesday	CLASS TEACHING		
7	23-Jan-25	Thursday	9	Principles of Object Oriented Programming (OOP)	Operator overloading, Dynamic binding. Over view of OOP using C++
8	24-Jan-25	Friday	9	Principles of Object Oriented Programming (OOP)	Basic Program construction: main and functions
9	25-Jan-25	Saturday	9	Principles of Object Oriented Programming (OOP)	Basic Program construction: main and functions
10	27-Jan-25	Monday	9	Principles of Object Oriented Programming (OOP)	Program statements, class declaration, comments++ compilation
11	28-Jan-25	Tuesday	9	Principles of Object Oriented Programming (OOP)	Program statements, class declaration, comments++ compilation
12	29-Jan-25	Wednesday	MONTHLY EVALUATION		
13	30-Jan-25	Thursday	9	Elements of C++ Language	Tokens and identifiers: Character set and symbols, Keywords. C++, identifiers
14	31-Jan-25	Friday	9	Elements of C++ Language	Tokens and identifiers: Character set and symbols, Keywords. C++, identifiers
15	1-Feb-25	Saturday	9	Elements of C++ Language	Variables and constants. Data Types: Basic data types, Arrays and strings, User defined data
16	4-Feb-25	Tuesday	9	Elements of C++ Language	Variables and constants. Data Types: Basic data types, Arrays and strings, User defined data
17	5-Feb-25	Wednesday	9	Elements of C++ Language	Operators, type conversions and type cast operators
18	6-Feb-25	Thursday	CLASS TEACHING		
19	7-Feb-25	Friday	9	Elements of C++ Language	Operators, type conversions and type cast operators
20	8-Feb-25	Saturday	9	Elements of C++ Language	Console I/O : cin, cout functions, Control statements
21	10-Feb-25	Monday	9	Elements of C++ Language	Console I/O : cin, cout functions, Control statements
22	11-Feb-25	Tuesday	9	Elements of C++ Language	Loops: for and while do statements, Break, continue, go to

23	13-Feb-25	Thursday	9	Elements of C++ Language	Loops: for and while do statements, Break, continue, go to
24	14-Feb-25	Friday	CLASS TEACHING		
25	15-Feb-25	Saturday	9	Elements of C++ Language	Functions Simple functions: Declaration of functions. Calling
26	17-Feb-25	Monday	9	Elements of C++ Language	Passing arguments and returning values: Passing constants and variables, Pass by value
27	18-Feb-25	Tuesday	9	Elements of C++ Language	Return statement, types of functions, Passing and returning
28	19-Feb-25	Wednesday	9	Elements of C++ Language	Inline functions, Default arguments, returning by reference, pointers
29	20-Feb-25	Thursday	9	Elements of C++ Language	Inline functions, Default arguments, returning by reference, pointers
30	21-Feb-25	Friday	MONTHLY EVALUATION		
31	22-Feb-25	Saturday	9	Classes and Objects:	Declaration of classes and objects in C++, Class definition
32	24-Feb-25	Monday	9	Classes and Objects:	Declaration of members, objects as date time, Objects as function
33	25-Feb-25	Tuesday	9	Classes and Objects:	Declaration of members, objects as date time, Objects as function
34	27-Feb-25	Thursday	9	Classes and Objects:	Array of objects, Returning objects from function, Structures
35	28-Feb-25	Friday	9	Classes and Objects:	Array of objects, Returning objects from function, Structures
36	1-Mar-25	Saturday	CLASS TEACHING		
37	3-Mar-25	Monday	9	Classes and Objects:	Parameterized constructors. Constructors with default arguments. Dynamic
38	4-Mar-25	Tuesday	9	Classes and Objects:	Parameterized constructors. Constructors with default arguments. Dynamic
39	5-Mar-25	Wednesday	9	Classes and Objects:	Parameterized constructors. Constructors with default arguments. Dynamic
40	6-Mar-25	Thursday	9	Classes and Objects:	use of copy constructor, shallow copying and deep copying
41	7-Mar-25	Friday	9	Classes and Objects:	Dynamic constructors. Destructors, constraints on constructors and
42	8-Mar-25	Saturday	CLASS TEACHING		
43	10-Mar-25	Monday	9	Classes and Objects:	Dynamic constructors. Destructors, constraints on constructors and
44	11-Mar-25	Tuesday	9	Classes and Objects:	Dynamic constructors. Destructors, constraints on constructors and
45	17-Mar-25	Monday	9	Classes and Objects:	Dynamic constructors. Destructors, constraints on constructors and
46	18-Mar-25	Tuesday	9	Derived Classes and Inheritance:	Derived, classes and base class: Defining a derived class, accessing the
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48	20-Mar-25	Thursday	CLASS TEACHING		

49	21-Mar-25	Friday	9	Derived Classes and Inheritance:	the protected access specifier, specifier. Derived class constructors.
50	22-Mar-25	Saturday	9	Derived Classes and Inheritance:	the protected access specifier, specifier. Derived class constructors.
	24-Mar-25	Monday	<div style="text-align: center;"> <h1>MID - TERM EXAM SCHEDULE</h1> </div>		
	25-Mar-25	Tuesday			
	26-Mar-25	Wednesday			
	27-Mar-25	Thursday			
	28-Mar-25	Friday			
	29-Mar-25	Saturday			
51	1-Apr-25	Tuesday	9	Derived Classes and Inheritance:	Overriding the member functions, Class hierarchies:
52	2-Apr-25	Wednesday	9	Derived Classes and Inheritance:	Overriding the member functions, Class hierarchies:
53	3-Apr-25	Thursday	9	Derived Classes and Inheritance:	Abstract base class
54	4-Apr-25	Friday	9	Derived Classes and Inheritance:	Inheritance: Public and private inheritance
55	5-Apr-25	Saturday	9	Derived Classes and Inheritance:	Inheritance: Public and private inheritance
56	7-Apr-25	Monday	CLASS TEACHING		
57	8-Apr-25	Tuesday	9	Derived Classes and Inheritance:	Types of Inheritance – single level, multi level, multiple, hybrid etc.
58	9-Apr-25	Wednesday	9	Derived Classes and Inheritance:	Types of Inheritance – single level, multi level, multiple, hybrid etc.
59	11-Apr-25	Friday	9	Derived Classes and Inheritance:	virtual function, stream classes
60	12-Apr-25	Saturday	9	Derived Classes and Inheritance:	virtual function, stream classes
61	15-Apr-25	Tuesday	9	Operator Overloading:	Overloading unary operators: Operator keyword, Arguments and return values
62	16-Apr-25	Wednesday	CLASS TEACHING		
63	17-Apr-25	Thursday	9	Operator Overloading:	Overloading unary operators: Operator keyword, Arguments and return values
64	19-Apr-25	Saturday	9	Operator Overloading:	Overloading unary operators: Operator keyword, Arguments and return values
65	21-Apr-25	Monday	9	Operator Overloading:	overloading binary operators. Arithmetic operators Examples: Addition of
66	22-Apr-25	Tuesday	9	Operator Overloading:	overloading binary operators. Arithmetic operators Examples: Addition of
67	23-Apr-25	Wednesday	9	Operator Overloading:	Multiple overloading, Comparison" operators, Arithmetic
68	24-Apr-25	Thursday	MONTHLY EVALUATION		

69	25-Apr-25	Friday	9	Operator Overloading:	Data and type conversions: Conversion between basic types,
70	26-Apr-25	Saturday	9	Operator Overloading:	Conversion between objects and basic types,
71	28-Apr-25	Monday	9	Operator Overloading:	conversion between objects of different classes, Constraints on type conversion
72	29-Apr-25	Tuesday	9	REVISION	REVISION
73	30-Apr-25	Wednesday	9	REVISION	REVISION