

Post Graduate Government College, Sector-46, Chandigarh

Weekly Teaching Schedule (2023-24), Class-BCA(2ND SEMESTER), Department OF COMPUTER APPLICATIONS

SUBJECT – OBJECT ORIENTED PROGRAMMING USING C++

Week	Period		Topics to be Covered
	From	To	
1	09.01.2024	13.01.24	Introduction to OOP, Difference between OOP and Procedure Oriented Programming; Concepts: Object, Class, Encapsulation, Abstraction, Polymorphism.
2	15.01.2024	20.01.24	Inheritance, Applications of OOP. Special operators: scope resolution operator, Member Dereferencing operators, Memory management operators, Manipulators and Type cast operator
3	22.01.2024	27.01.24	Class Declaration : Data Members, Member Functions, Private and Public members, Creating Objects, Accessing class data members, Accessing member functions; Class Function Definition: Member Function definition inside the class declaration and outside the class declaration.
4	29.01.2024	03.02.24	Friend function, inline function, Static members, Function Overloading, Arrays within a class. Arrays of Objects; Objects as function arguments: Pass by value, Pass by reference, Pointers to Objects.
5	05.02.2024	10.02.24	Constructors: Declaration and Definition, Types of Constructors, (Default, Parameterized, Copy Constructors). Destructors: Definition and use.
6	12.02.2024	17.02.24	Operator Overloading & Type Conversion: Conversion from basic type to user defined type, User defined to basic type and one user defined conversion to another user defined type.
7	19.02.2024	24.02.24	Inheritance: Extending Classes Concept of inheritance, Base class, Defining derived classes, Visibility modes : Public, Private, Protected
8	26.02.2024	02.03.24	Types of Inheritance: Single inheritance : 20 Privately derived, Publicly derived; Making a protected member inheritable, multilevel inheritance,
9	04.03.2024	09.03.24	multiple Inheritance and ambiguity of multiple inheritance, Hierarchical Inheritance, Hybrid, Nesting of classes.

10	11.03.2024 to 18.03.2024 (Tentative Dates for MST)		
11	19.03.2024	22.03.24	Polymorphism: Definition, Application and demonstration of Data Abstraction
12	26.03.2024	30.03.24	Encapsulation and Polymorphism. Early Binding, Polymorphism with pointers, Virtual Functions, Late binding, pure virtual functions.
13	01.04.2024	06.04.24	Exception Handling: Definition, Exception Handling Mechanism : Throwing mechanism
14	08.04.2024	12.04.24	Exception Handling: Definition, Exception Handling Mechanism : Throwing mechanism
15	15.04.2024	22.04.24	File Processing : Opening and closing of file, Binary file operations, structures and file operations, classes and file operations, Random file processing.

Signature of the Subject Teacher