POST GRADUATE GOVT. COLLEGE, SECTOR-46, CHANDIGARH,

WEEKLY TEACHING SCHEDULE (2022-2023)

CLASS: __BCA 2nd sem__   SUBJECT: Object Oriented Programming using C|++(Theory/Practical)

Sr. No.	Date (From-Upto)	Topics to be Covered
Week-1	16-21st January, 2023	Introduction to OOP, Difference between OOP and Procedure Oriented Programming; Concepts: Object, Class,
Week-2	23-28th January, 2023	Inheritance, Applications of OOP. Special operators: scope resolution operator, Member Dereferencing operators, Memory management operators, Manipulators and Type cast operator
Week-3	30 Jan -04th February, 2023	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.
Week-4	06-11th February, 2023	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.
Week-5	13-18TH February, 2023	Constructors: Declaration and Definition, Types of Constructors, (Default, parameterized, Copy Constructors). Destructors: Definition and use
Week-6	20-25TH February, 2023	. . 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.
Week-7	27 Feb – 4th March, 2023	Inheritance: Extending Classes Concept of inheritance, Base class, Defining derived classes, Visibility modes : Public, Private, Protected ;

Week-8	6-11th March, 2023	Types of Inheritance: Single inheritance :Privately derived, Publicly derived; Inheritance, Hybrid, Nesting of classes
Week-9	13-18th March, 2023	**MID SEMESTER EXAMINATIONS**
Week-10	20-25th March, 2023	Making a protected member inheritable, multilevel inheritance, multiple Inheritance and ambiguity of multiple inheritance, Hierarchal
Week-11	27 March -01st April, 2023	Polymorphism: Definition, Application and demonstration of Data Abstraction, Encapsulation and Polymorphism.
Week-12	03-8th April, 2023	Early Binding, Polymorphism with pointers, Virtual Functions, Late binding, pure virtual functions.
Week-13	10-15th April, 2023	Exception Handling: Definition, Exception Handling Mechanism : Throwing mechanism and Catching Mechanism, Rethrowing an Exception
Week-14	17-22nd April, 2023	File Processing : Opening and closing of file, Binary file operations
Week-15	24-28th April, 2023	File Processing : structures and file operations, classes and file operations, Random file processing.

Signature Subject Teacher