

19BSM605- Object Oriented Programming									
Teaching Scheme				Examination Scheme					
L	T	P	C	Hrs/Week	Theory			Practical	TotalMarks
					MS	ES	IA	LW	
3	1	--	4	4	25	50	25	--	100
OBJECTIVES									
1. Understanding about object oriented programming 2. Learn how to store one object into another object 3. Understanding the process of exposing essential data and hiding the low level data 4. Create and process data in files using file I/O functions									
SYLLABUS									
Unit-I								10	
Introduction and Language features: How C++ differs from C, Variable Declaration, Function Overloading, Optional Parameters, Reference Variable, Basics of Console Input and Output, Predefined class in C++. Building objects with classes, Defining operations on objects, Dynamic Memory Allocation									
UNIT II								10	
Object Oriented Programming Concepts: Overview of OOPs principles, Introduction to classes & Objects, Creation & destruction of objects, the Pointer									
UNIT III								10	
Inheritance: Introduction and benefits, Types of Inheritance, Virtual functions and Function overriding, Destructor overriding, Polymorphism									
UNIT IV								9	
I/O Streams: C++ Class Hierarchy, File Stream, Text File Handling, Binary File Handling, Overloading << and >> operators.									
APPROXIMATE TOTAL								39 Hours	
OUTCOMES									
1. Apply elementary techniques involving arithmetic operators and mathematical expressions in C++ programming 2. Choose an appropriate data type to represent data 3. Write C++ programs that use selection (if, switch, conditional operator) 4. Write C++ programs that use loops (while, do while, for) 5. Write C++ programs that use sequential files for input and output 6. Write C++ programs that make use of functions for transfer of control 7. Write C++ programs that use arrays, including sorting and searching arrays 8. Write C++ programs that use pointers 9. Solve programming problems using C++									
TEXTS AND REFERENCES									

- 1 Object-Oriented Programming with C++,Balagurusamy, TMH.
2. Object Oriented Programming & C++, R. Rajaram,New Age International.
3. C++ The complete Reference, Schildt, 4th Ed, TMH. Age International.
4. Object-Oriented Programming with C++ & JAVA, Samanta, PHI.

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