Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
MCAL11	Object Oriented Programming Lab	--	--	4	--	--	2	2
		Examination Scheme						
		Term Work		Practical		Oral		Total
		40		10		10		60

Pre-requisite Course Codes	--	
Course Outcomes	CO1	Demonstrate C++ operators, control structures, built-in data types and standard library functions
	CO2	Implement dynamic memory management techniques with pointers, constructors, destructors etc.
	CO3	Implement functions, function overloading, operator overloading, virtual functions and polymorphism
	CO4	Demonstrate inheritance with the understanding of early and late binding, usage of exception handling
	CO4	Demonstrate File handling and Standard Template Library

Exp. No.	Experiment details	Ref	Marks
1	**Implement Various Control Structures:** a. If statement b. Switch case statement and do while loop c. For loop d. While loop	1,2,3	5
2	**Functions & Recursion:** a. Recursion b. function c. Inline Functions d. Call by reference & Call by Value	1,2	5
3	Constructors & Destructors, Understand Pointer Arithmetic, Use of "this" Pointer.	1,2	5
4	**Implement Inheritance and Function Overriding:** a. Multiple inheritance –Access Specifiers b. Hierarchical inheritance – Function Overriding Virtual Function	1,2	5
5	**Exception handling**	1,2,3	5
6	**File handling**	1,2,3	5
7	**Friend Function & Friend Class.** a. Friend Function b. Friend class	1,2,3	5
8	**Class Templates**	1,2	5
Total Marks			40

References:

[1] Steve Oualline,"Practical C++ Programming.", O'Reilly & Associates, Inc., First Edition.
[2] Steve Oualline,"Practical C++ Programming (Nutshell Handbook)", O'Reilly Media; First Edition
[3] Madhusudan Mothe,"C++ Programming: A practical approach Pearson Education", First Edition