Course No.	Course Name	L-T-P	Credits	Year of Introduction
IT232	Object Oriented Programming Lab	0-0-3	1	2016

Prerequisite : IT202 Object oriented techniques

Course Objectives

- Provide hands-on experience to students in implementing object oriented programming concepts

Syllabus

Programs Using Function - Simple Classes for understanding objects, member functions and Constructors - Compile time Polymorphism - Runtime Polymorphism – Pointers – Inheritance - File Handling – Exception handling

Expected Outcome

The students will be able to

- Design, develop and troubleshoot software based on object oriented programming methodologies.

Exercise	Contents
I	Programs Using Functions a. Functions with default arguments b. Implementation of Call by Value, Call by Address and Call by Reference
II	Simple Classes for understanding objects, member functions and Constructors a. Classes with primitive data members b. Classes with arrays as data members c. Classes with pointers as data members – String Class d. Classes with constant data members e. Classes with static member functions
III	Compile time Polymorphism a. Operator Overloading including Unary and Binary Operators. b. Function Overloading
IV	Runtime Polymorphism a. Inheritance – Simple, Multiple, Multi-level, Hierarchical and Hybrid b. Virtual functions c. Virtual Base Classes
V	File Handling a. Sequential access b. Random access
VI	Exception handling a. exception handling mechanisms b.specifying exception