### Course Code : INTE 12213

**Course Title : Object Oriented Programming**

**Prerequisites : INTE 11223**

# Learning outcomes:

On completion of this course unit, the student should be able to:

* describe the principles of object-oriented programming
* discuss the advantages of object-oriented approach
* design, develop, test and debug object oriented computer programs
* develop GUI using an object oriented programming language
* develop object oriented software applications with database connectivity

# Course content:

Principles of Object Oriented Programming (OOP), classes and objects, Information hiding and encapsulation, Inheritance, Polymorphism, static and dynamic binding, Interfaces and Abstract classes, Exception Handling, GUI Components, Generic Classes and Methods, Accessing Databases with JDBC, Multithreading

# Method of teaching and learning:

Lectures, supervised hands-on practical sessions and group work

# Assessment:

End of course unit examination, continuous assessment and group project

# Recommended reading:

* Deitel, P J and Deitel, H M (2015). Java How to Program: Early Objects, Pearson
* Savitch W. (2015),Java: An Introduction to Problem Solving and Programming, Pearson
* Material provided in CAL.