



Ton Duc Thang University  
Faculty of Information Technology

# OBJECT-ORIENTED PROGRAMMING

## INTRODUCTION

# Course Description

- Module's name:

## OBJECT-ORIENTED PROGRAMMING

- Code:
- Credits: 4 (3.1)
- Prerequisite: Programming Methodology (501042)

# Syllabus Outline

- Introduction to Java
- Object, class, Encapsulation
- Inheritance
- Abstract
- Polymorphism
- Collection of Data
- Exception
- Class Diagram in UML
- Nested class
- Design pattern

# Textbooks

- [1] Janet J. Prichard, Frank M. Carrano, [2011], Data Abstraction and Problem Solving with JAVA: Walls & Mirrors, 3rd Edition, Pearson Education, NJ.
- [2] Bruce Eckel, [2006], Thinking in Java, 4th Edition, Pearson Education, NJ.
- [3] Cay S. Horstmann, Gary Cornell, [2013], Core Java Volume I - Fundamentals, 9th Edition, Pearson Education, NJ.
- [4] Craig Larman, [2004], Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development, 3rd Edition, Addison Wesley Professional, Boston

# Assessment

- 10% - Theory
- 20% - Midterm test
- 20% - Exercises + Assignments
- 50% - Final exam

# Q & A