

Object Oriented Programming #1 Introduction

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1 About this course

Objectives

Syllabus

Prerequisite

Evaluation

Cheating & Pagiarism

2 Introduction To OOP

Definition

Why



Mata kuliah ini dimaksudkan untuk memberi kemampuan pada mahasiswa untuk dapat memahami konsep pemrograman berorientasi objek. Materi perkuliahan mempelajari pseudocode dan konsep program pada bahasa pemrograman berorientasi objek yang meliputi: struktur program, variabel dan tipe data, struktur logika dan pengulangan, array, method static, object dan class, exception, collection class, generalisasi, inheritance, interfaces, polymorphisme, encapsulation, annotations, IO stream, pemrograman thread dan socket.



- Introduction
- Program structure, Variable, Operator, data type
- 3 Logic control, Loop
- 4 Array and Static Method
- Object and Class
- 6 Essential Class
- Exception Handling
- Mid Test
- Inheritence & Abstract Class
- Interface, Polymorphisme, Encapsulation
- Collection Class
- Generics and Annotations
- File Stream
- Thread
- Java Socket Programming
- final Test



Prerequisite & References

Prerequisite:

- DDP
- SDA

References:

- Patrick Naughton, Java Handbook : Konsep dasar pemrograman java, McGraw- Hill/Osborne
- Ariesto Hadi Sutopo & Fajar Masya, Pemrograman Berorientasi Objek dengan Java, Graha Ilmu, 2005.
- Benny Hermawan, Menguasai Java 2 & Object Oriented Programming, Andi Offset, 2004.
- Ariesto Hadi Sutopo, Analisis Dan Desain Berorientasi Objek, J & J Learning, 2002.
- Isak Rickyanto, ST, Dasar Pemrograman Berorientasi Objek dengan Java 2 (JDK 1.4), Andi Offset, 2005.



Attitude:

- Active
- Do your assignments
- Cheating & Plagiarism = 'E'
- Be nice to Lab assistance

Proportion:

- 50% Assignment
- 20% Mid Test
- 25% Final Test
- 5% Attendance



Cheating in the context of this course is generally, but not limited to:

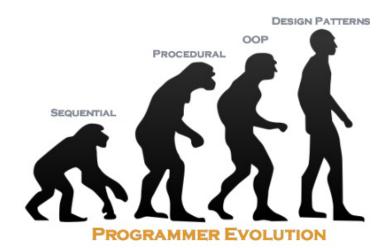
- Sharing and copying of code from other students or the Internet without mention the source.
- Any code making up your solution should be written and understood by you.
- Small quantities of template code will at times be provided by the instructor. You can use this code in submissions but should still be able to fully explain the function of all template code you use.
- Refer to but do not copy code from the examples given in class

Program Studi SI/TI



- Object-oriented programming (OOP) is a programming language model organized around objects rather than "actions" and data rather than logic.
- Historically, a program has been viewed as a logical procedure that takes input data, processes it, and produces output data.
- Object-oriented programming takes the view that what we really care about are the objects we want to manipulate rather than the logic required to manipulate them.

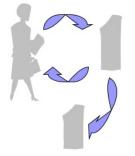






Procedural vs. Object-Oriented

Procedural



Withdraw, deposit, transfer

Object Oriented



Customer, money, account









Procedural vs. Object-Oriented

■ Procedural

- Object Oriented
- Procedular





- Code reuse!
- Maintainability
- Code reuse !!
- Readability
- Code reuse !!!
- Modularity
- Code reuse !!!!
- Scalability
- Code reuse !!!!!