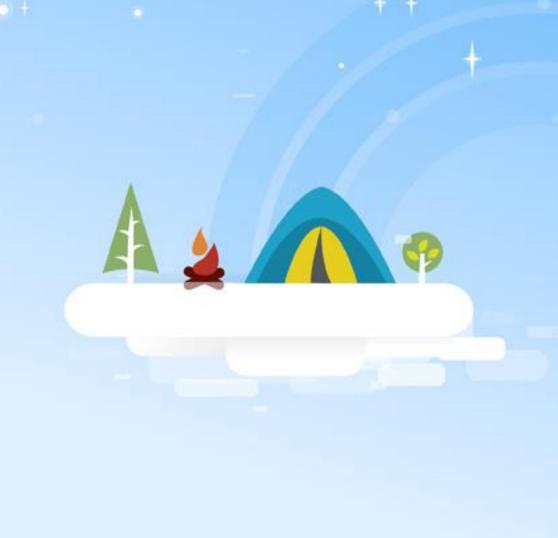
# Object Oriented Programming Course Overview

Ridi Ferdiana | ridi@ugm.ac.id Version 6.0.0



# Learning Outcome

- Students are able to <u>analyse</u> the pillars of object-oriented programming in modern computing development platform
- Students able to <u>apply</u> the concepts in solving complex objects in programming
- Students are able to <u>develop</u> object-based oriented software.
- Students are able to <u>evaluate</u> the various modern devices that can increase the productivity of the object-based software development

#### Course Books

- Ridi Ferdiana, Membangun Aplikasi Smart Client Dengan Visual C# Dan Visual Web Developer Express. Penerbit Andi, 2007.
- Raihan Taher, Hands-On Object-Oriented Programming with C#. Packt Publishing. 2019
- Matt Weisfeld. The Object-Oriented Thought Process, 5th Edition. Addison Wesley. 2019
- Dmitri Nesteruk. Design Patterns in .NET Core 3: Reusable Approaches in C# and F# for Object-Oriented Software Design. 2021

#### Course Tools

Azure DevOps – <a href="https://dev.azure.com">https://dev.azure.com</a>

Azure for Student – <a href="https://azure.microsoft.com/en-us/free/students/">https://azure.microsoft.com/en-us/free/students/</a>

Github – <a href="https://github.com">https://github.com</a>

#### Compiler tools

- Visual Studio Codes fast and lightweight <a href="https://visualstudio.com">https://visualstudio.com</a>
- Visual Studio 2019 for MAC and for Windows <a href="https://lib.ft.ugm.ac.id">https://lib.ft.ugm.ac.id</a>

**Object Oriented Programming Fundamentals** 

Object Oriented Analysis and Design Fundamentals

Class Design

Method Design

Separation of Responsibilities

Establishing Relationship

Inheritance Model

Components Based Model

Interfaces and Abstraction

Design Patterns

Test Driven Development

Refactoring

API Design

Project Based Learning

#### Supported Course

- Basic Programming
- Algorithm and Data Structure
- Software Engineering

# Preparing Your Editor



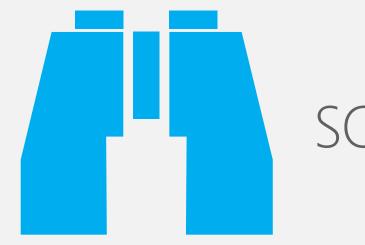
Visual Studio Codes

# Preparing Your IDE



Visual Studio 2019

#### Setup Your Database



SQL Server Express