

# Software Engineering: Course overview



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# About the course

- ❖ Course: Software engineering (3 credits)
- ❖ Code: INT2208\_...
- ❖ Instructor: Vũ Thị Hồng Nhạn
- ❖ Materials
  - Ian Sommerville, Software Engineering. **9th Ed.**, Addison-Wesley, 2010.
  - Robert C. Martin, Agile Software Development, Principles, Patterns, and Practices. Prentice Hall; 2002.
  - Nguyễn Văn Vy, Nguyễn Việt Hà, Giáo trình Công nghệ phần mềm, NXB ĐHQG Hà Nội, 2008.
  - Others!
- ❖ Course website: <http://courses.uet.vnu.edu.vn>

# Objectives

- ❖ Understand **basic concepts** in SE & can explain **key terminologies**
- ❖ Know about **all activities** of software development process
- ❖ Be able to make **software documents** & **deliverables**
- ❖ Be able to use some CASE (Computer-aided software engineering) tools
- ❖ Apply the provided methods in deploying a complete small project in a group
  - Learn to collaborate in a group

# Tentative schedule

Week	Content	Remark
1	Introduction to SE	Chapter 1
2	Software processes	Chapter 2
3	Software processes (cont.)	
4	Agile software development	Chapter 3
5	Requirement engineering	Chapter 4
6	Requirement engineering (cont.)	
7	<i>Term project topics and plan</i>	<i>Students present</i>
8	System modeling	Chapter 5
9	Architectural design	Chapter 6
10	Design & implementation	Chapter 7
11	Software testing	Chapter 8
13	Project management.	Chapter 22
14	<i>Testing term project demo + documents</i>	<i>Students present</i>
15	<i>Testing term project demo + documents</i>	<i>Students present</i>

# Technologies

- ❖ Web-based application
  - Python & Django
  - Ruby & rails
  - Google app engine
- ❖ Mobile: android platform
- ❖ Process tool: use agile tools for tracking (trello, jira, agilebench...)
- ❖ Project collaboration
  - use github for repository

# Term Project & Grading

## ❖ Project

- 4-5 students in a group
- Each member is graded based on your own contribution, be sure to write it down in the final report

## ❖ Grading

- Mid-term & Term project: 40%
- Final: 60% (written/oral subject to actual situation)