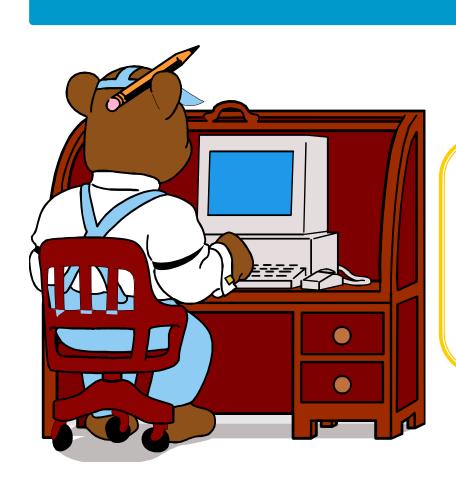
# **Software Engineering: Course overview**



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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 Vỵ, Nguyễn Việt Hà, Giáo trình Công nghệ phần mềm, NXB ĐHQG
    Hà Nội, 2008.
  - Others!
- Course website: <a href="http://courses.uet.vnu.edu.vn">http://courses.uet.vnu.edu.vn</a>

# **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	Term project topics and plan	Students present
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	Testing term project demo + documents	Students present
15	Testing term project demo + documents	Students present

# **Technologies**

- Web-based application
  - Pyhton & 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

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# **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)