

CPT 203

Revision on week 1-4



XJTLU Student Module Feedback Questionnaire



西交利物浦大学

XJTLU Student Module Feedback Questionnaire (MQ)

Course Settings Participants Grades Reports More ▾

▼ Useful Information

[Collapse all](#)

Current Academic Year - Semester: AY 2024/25 – Semester 1

Opening Period: AY2024-25 S1 Student Module Questionnaire for end-of-semester module will go live from 25th November, 2024 (Monday of Week 12) and lasts about three weeks.

The Student Module Feedback Questionnaire (MQ) is conducted by each semester online and all feedback from students is anonymous

As it is an essential part of programmes and teaching skills development:

- For students:

Please read the announcement (launch) email carefully before start your questionnaires, and you will have an opportunity to win a big prize (see below picture) if you complete all of your questionnaires before the deadline.

First Prize: iPad Air
1 Available

Second Prize: Apple Watch
2 Available

Third Prize: AirPods
3 Available

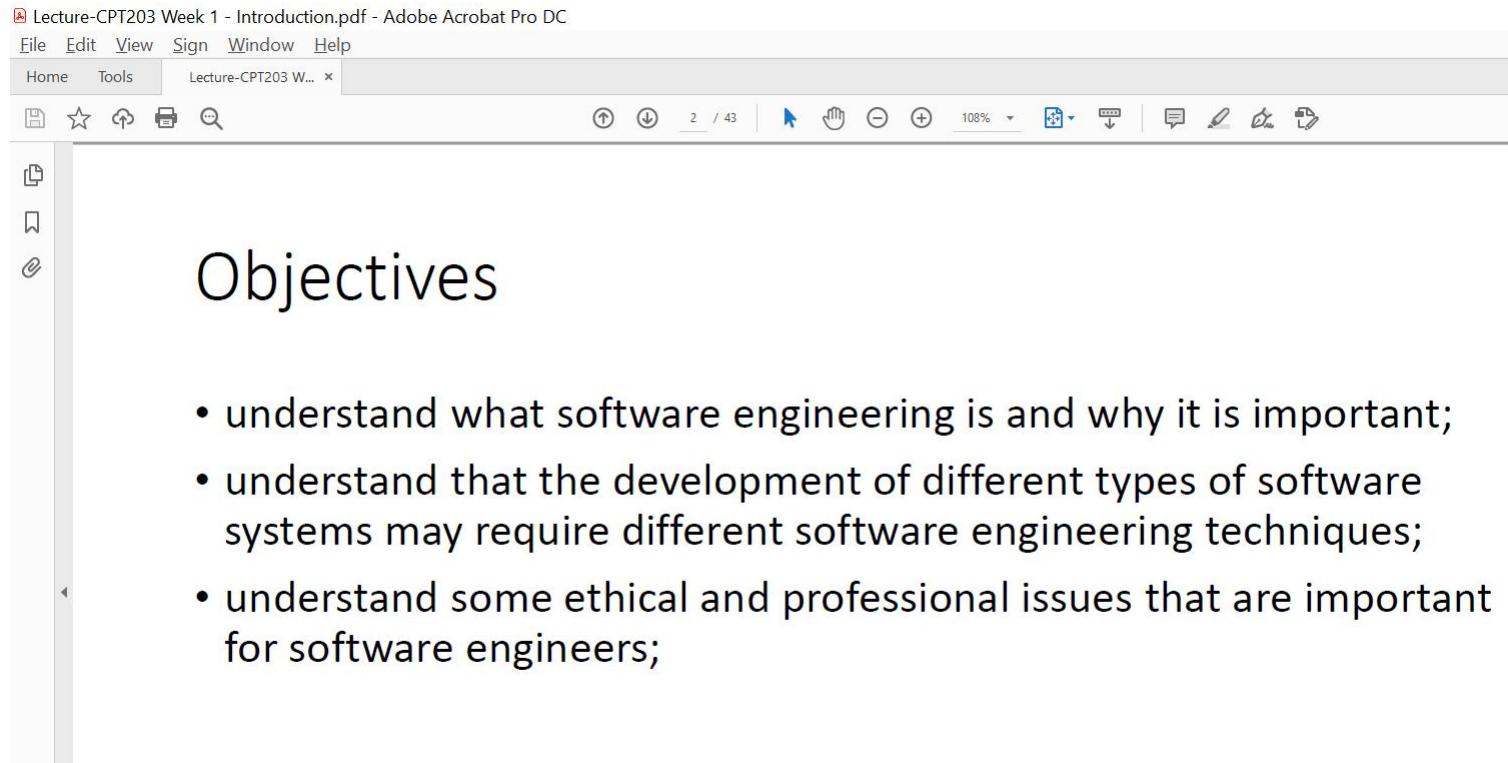
Participation Prize: XJTLU Bear/Bird
100 Available



<https://core.xjtlu.edu.cn/course/view.php?id=1677>

Week 1 -1

- Lecture page 2



Lecture-CPT203 Week 1 - Introduction.pdf - Adobe Acrobat Pro DC

File Edit View Sign Window Help

Home Tools Lecture-CPT203 W... ×

2 / 43 108% 108%

Objectives

- understand what software engineering is and why it is important;
- understand that the development of different types of software systems may require different software engineering techniques;
- understand some ethical and professional issues that are important for software engineers;



Week1 -2

- What is software engineering ?
- The activities of software engineering
- Software engineering approaches
- What is professional software development ?
- Software engineering ethics
- Software deterioration



Week 2 -1

Lecture page 2

Objectives

- understand the concepts of software processes and software process models;
- introduced to three generic software process models and when they might be used;
- know about the fundamental process activities of software requirements engineering, software development, testing, and evolution;

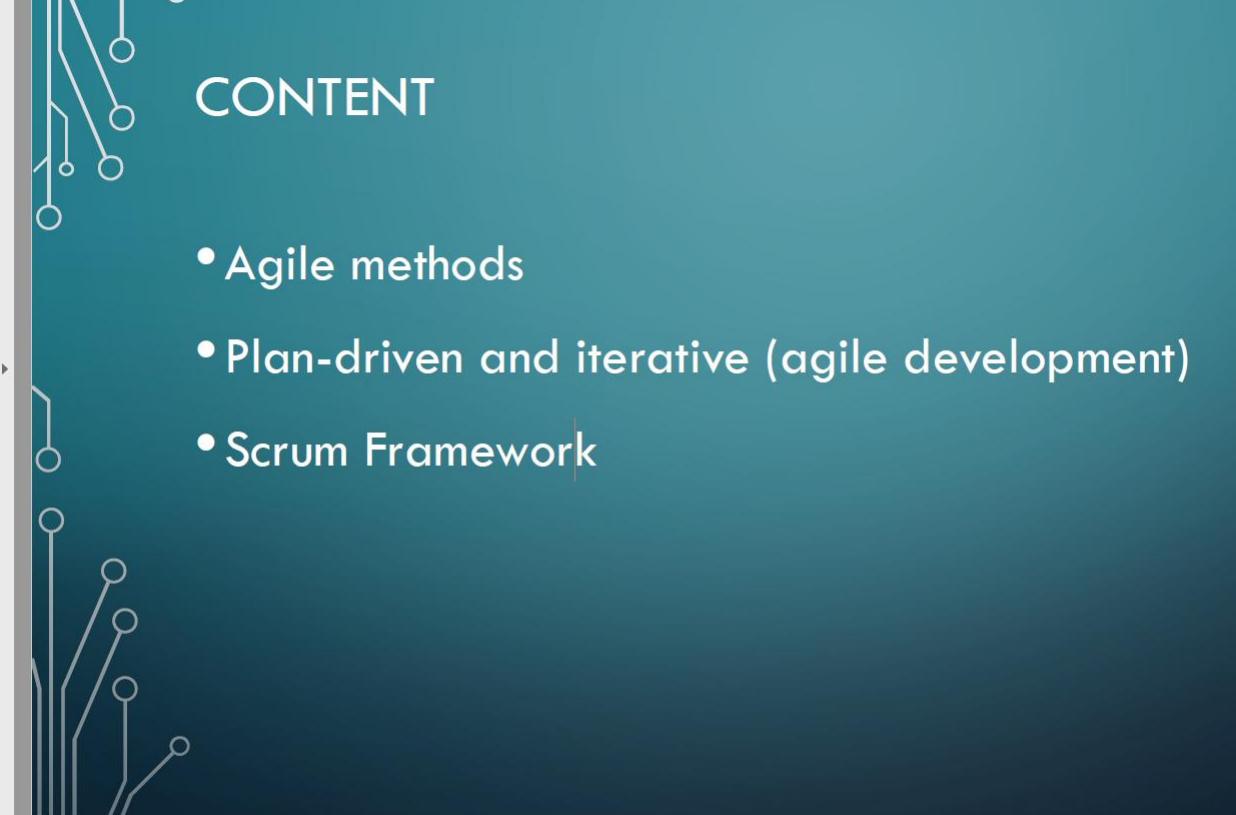


Week 2 -2

- What are the software process activities ?
- Definition of each of them
- What are the software process models? Able to explain them
- Their characteristics, advantages and disadvantages
- Given a scenario, how to decide which process model to use? Able to provide justification

Week 3-1

- Page 2



CONTENT

- Agile methods
- Plan-driven and iterative (agile development)
- Scrum Framework



Week 3 -2 Agile

- Principles of agile methods
- Characteristics, advantages and disadvantages of agile methods
- Given a scenario, able to decide if agile is a good choice
- Comparison on agile and plan-driven
- Scrum framework (roles, activities, and artifacts)



Week 4 Software Specification -1

Objectives

- The objective of this chapter is to introduce software specification and to discuss the processes involved in discovering and documenting these requirements. When you have read the chapter, you will:
 - understand the concepts of user and system requirements and why these requirements should be written in different ways;
 - Be able to specify functional and nonfunctional software requirements;
 - Be able to organize and document software requirements;
 - understand the principal software specification activities of elicitation, analysis and validation, and the relationships between these activities;



Week 4 Software Specification -2

- Software specification processes
- system requirements and user requirements:
 - ✓ definition,
 - ✓ to differentiate them, and to compare
 - ✓ able to provide examples
- Techniques to define system requirements
- functional and non-functional requirements

↓
specific, measurable, context, achievable,
relevant



Week 4 Software Specification -3

- emergent system
- How to do requirements elicitation and analysis?
Able to work on use cases
- What is software requirements document? Good practices of making such a document, and level of details
 - engage stakeholder / prioritize / clear / Traceability Refine
- What are requirements validation? What activities might include ? And their techniques ?
 - Valid / Multiple techniques
 - Task, Consideration, Verify, Completes, Review

