



CS-C3150

Software Engineering

Fall 2023 edition
Prof. Casper Lassenius

Course Practicalities

- ❖ Self-study course delivered through MyCourses
 - ❖ No physical lectures
- ❖ Weekly modules according to a fixed schedule
- ❖ Exercises due each Wednesday at 8:00 am
- ❖ Traditional (pen-and-paper) exam
- ❖ You must pass both the exercises and the exam to pass the course



Course Overview

Module	Topic
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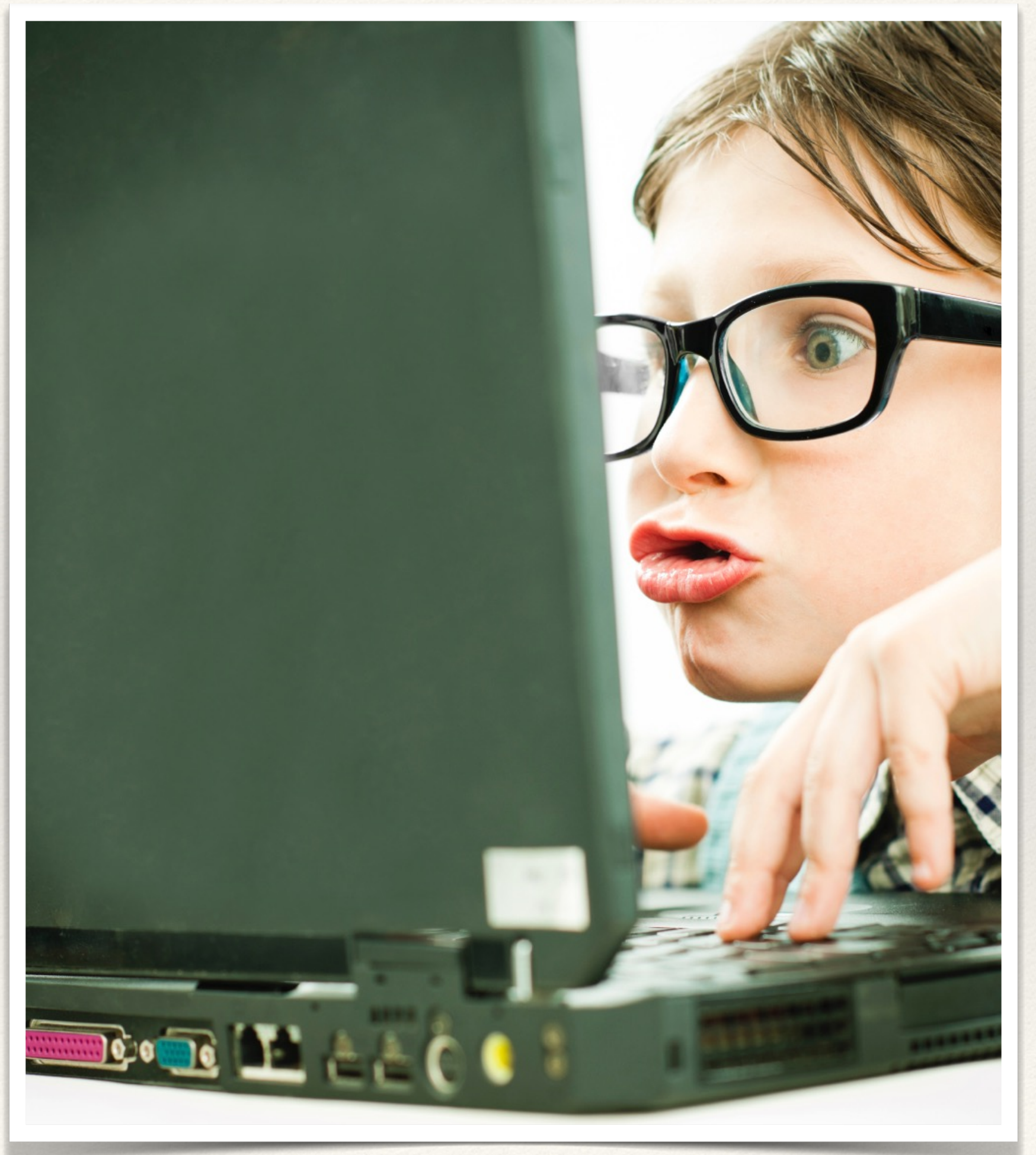
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| 1. | Course Overview |
| 2. | Introduction to Software Engineering |
| 3. | Software Processes: Overview and Traditional Processes |
| 4. | Modern Software Development Processes |
| 5. | Requirements Engineering |
| 6. | Architectural Design |
| 7.. | Software Modeling, Design and Implementation |
| 8. | Software Testing and Quality Assurance |
| 9. | Software Configuration Management. Continuous Integration. |
| 10. | Managing Software Engineering |

Course Overview (2/2)

Date	Topic
11.	Global and Hybrid Software Engineering
12.	Software Process Improvement and Software Business
13.	Course feedback. Possibility to do extra modules.
Exam	Pen-and-paper exam

Module Contents

- ❖ Each module consists of
 - ❖ Video(s)
 - ❖ Readings (typically 1-2 articles)
 - ❖ In MyCourses
 - ❖ Quizzes (testing the learning from the readings)
 - ❖ A written assignment (typically an essay of 1-2 pages of text)



Quizzes

- ❖ The quizzes test your understanding of the module's material
- ❖ You should read the material prior to taking a quiz
- ❖ Details
 - ❖ 8-10 questions (multiple choice, matching, true/false)
 - ❖ Timed (max 30 minutes)
 - ❖ Will not show you which questions were answered correctly or incorrectly in order to make you avoid trial-and-error answering
 - ❖ Can be taken twice
 - ❖ The score from the best attempt will be your final score
 - ❖ The questions have been designed to be easy to answer if you are familiar with the material, difficult otherwise
 - ❖ Max score: 4 points

Written Assignments

- ❖ Based on the readings
 - ❖ Theoretical or practical assignments
 - ❖ Typically, essays of 500-1000 words in length
- ❖ The assignments are peer-graded
 - ❖ Each student grades the assignments of three other students
 - ❖ The idea is to deepen your understanding through reading and reflecting on the work of other students
 - ❖ Grading criteria given
 - ❖ You get 4 points for your essay and 2 points for grading
 - ❖ You must both submit your own and do peer grading to get any points at all for the assignment
- ❖ The course personnel will assess both the grades given as well as the assignments
 - ❖ We aim at giving you individualized feedback on the written assignments to support your learning

Course Flow

- ❖ Exercise deadline Wednesday 8:00 am
- ❖ Last week's assignments
 - ❖ Written assignment
 - ❖ Quiz
 - ❖ Peer grading
 - ❖ Written assignments of the week before last week
- ❖ The deadlines are absolute and automatically enforced by MyCourses
- ❖ New Module and exercises published Wednesdays 8:15 am



The Two-Module Excuse System

- ❖ After the course, you will have the opportunity to do extra work to make up for missed points in up to two modules
 - ❖ Two extra modules will be made available after the normal modules
 - ❖ Make up for missed deadlines
 - ❖ Raise your score
- ❖ You can use these modules to make up for individual assignments or complete modules
- ❖ If you try to raise your score, the better score will be used—there is no penalty for doing the extra modules

Exam

- ❖ “Traditional”, pen-and-pencil exam
- ❖ No material or electronics are allowed
- ❖ Based on the material covered in the substance modules
- ❖ Reading guidelines will be made available
- ❖ The exam can improve or lower your grade (+-1) from the grade you would get based on the assignments
- ❖ A failed exam fails the whole course, regardless of your points from the weekly exercises
- ❖ There are exactly two takes for the exam: one in December and one in February.

Grading

- ❖ Grading is based on points awarded from the weekly modules and the exam
- ❖ To pass the course, you need enough points from both

Grading: Exercises

- ❖ Max points
 - ❖ Substance modules
 - ❖ 10 points each
 - ❖ Max 110p
 - ❖ Non-substance modules
 - ❖ 5 points each
 - ❖ Introduction (this module)
 - ❖ Course feedback

Points	Grade
105 – 120	5
95 – 104	4
85 – 94	3
75 – 84	2
65 – 74	1
0 – 64	0

Grading: Exam

- ❖ The exam gives 0-50 points
- ❖ Effect on course grade:
 - ❖ 0-30 p: Course failed (regardless of exercise points)
 - ❖ 30-35 p: Grade -1 (also applied to exercise grade 1)
 - ❖ 36-44 p: No effect on grade
 - ❖ 45-50 p: Grade +1 (does not apply to exercise grades 0 and 5)

Passing the Course

- ❖ To pass the course, you must **either**
 - ❖ Get at least 65 points from the exercises and at least 36 points from the exam, or
 - ❖ Get at least 75 points from the exercises and at least 30 points from the exam

Honor Code

- ❖ You must **write your own assignments**. You are allowed to discuss the exercises with fellow students, but you must write the text yourself.
- ❖ You should not discuss the quizzes with other students until you have submitted your own and the other students have submitted theirs
- ❖ You must **reference** any sources you use, including the course textbook, according to the **referencing guidelines**

Referencing

- ❖ A way to show where you got your ideas from
- ❖ Even if you reference, direct copying of text is not acceptable.
- ❖ Short passages, e.g., definitions can be copied verbatim, but must be clearly marked as a quotes
- ❖ Long passages (several sentences) should not be quoted
- ❖ Use the Harvard system, as described in the instructions
- ❖ You will be required to reference both the course material, and any other sources that you might need as part of the exercises

Generative AI

- ❖ You must write all assignments **yourself** – you cannot use text copied from the internet, generated by AI (ChatGPT etc.), written by a friend, etc. in your exercises
- ❖ ChatGPT and the like are not valid sources / references, and they tend to make things up – they cannot be trusted
- ❖ Language checking is ok (e.g. Grammarly)
- ❖ We will analyze assignments using Turnitin for plagiarism and the use of generative AI

Questions?

- ❖ Submit to the fora in MyCourses
- ❖ Use our Telegram group
- ❖ Contact the lecturer directly
 - ❖ email: Casper.Lassenius@aalto.fi
- ❖ We try to answer all questions quickly
 - ❖ within 24h, during weekdays and office hours