



CS-C3500

Software Engineering

Fall 2024 edition
Prof. Casper Lassenius

Course Practicalities

- Self-study course delivered through MyCourses
 - No physical lectures
- Weekly modules according to a fixed schedule
 - New modules published each Wednesday at 08:15
 - Exercises due each Tuesday at 23:59
- Passing
 - Enough points for the exercises
 - Pass the traditional (pen-and-paper) exam



Course Topics

Module	Topic
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, Implementation and AI in SE
8.	Software Testing and Quality Assurance
9.	Software Configuration Management. Continuous Integration.
10.	Managing Software Engineering

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 material
- You should study the material prior to taking the 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



QUIZ

Written Assignments

- Based on the readings
 - Theoretical or practical assignments
 - Typically, essays of 500-1000 words in length
- The course personnel will assess your essays
 - We aim at giving you individual feedback on the written assignments to support your learning
- Max score: 6 points



Language Policy

- The course material is in English
- The exercise assignments are available in English and Finnish; in Swedish upon request
- The language chosen in MyCourses affects which language version you can see
- You are allowed to submit your exercises and exams in English, Finnish, or Swedish



Course Flow

- New Module and exercises published Wednesdays at 08:15
- Deadline next Tuesday at 23:59
 - Written assignment
 - Quiz
- The deadlines are absolute and automatically enforced by MyCourses
- If you cannot meet a deadline, use the two-module excuse system



The Two-Module Excuse System

- Two extra modules will be made available after the normal modules
- 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
- You do not need to contact course personnel to use this system
 - Contact only in special cases, e.g., serious illness with doctor's note (e.g. hospital stays etc.)

90% OF THE
Failures
= COME *from* =
PEOPLE WHO HAVE
HABITS
OF MAKING EXCUSES.



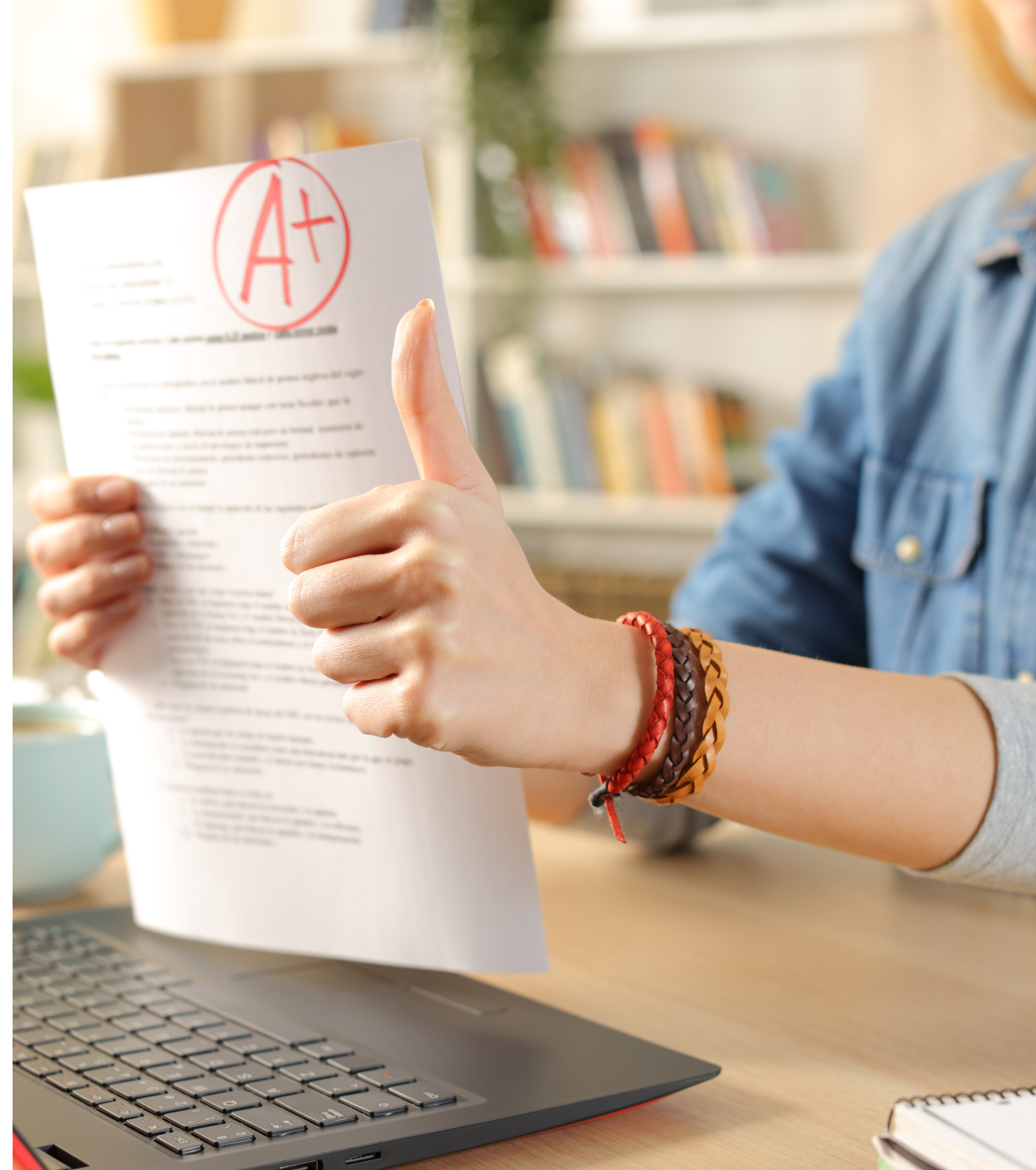
Exam

- “Traditional”, **pen-and-paper** 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 three takes for the exam: December, February, and June
- You cannot take the exam unless you have passed the exercises



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)
 - 31-35 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

