

Försättsblad till skriftlig tentamen vid Linköpings universitet

Datum för tentamen	2021-10-27
Sal (2)	
Tid	14-18
Utb. kod	
Modul	TEN1
Utb. kodnamn/benämning Modulnamn/benämning	Programutvecklingsmetodik Tentamen
Institution	IDA
Antal uppgifter som ingår i tentamen	9
Jour/Kursansvarig Ange vem som besöker salen	Kristian Sandahl Lena Buffoni
Telefon under skrivtiden	013-28 19 57
Besöker salen ca klockan	15
Kursadministratör/kontaktperson (namn + tfnr + mailaddress)	Veronica Gunnarsson, 013-28 56 34 veronica.gunnarsson@liu.se
Tillåtna hjälpmedel	2 handwritten A4 sheets. You may write on both pages A dictionary or English word-book. 2 handskrivna A4 ark. Ni får skriva på båda sidor. Ett lexikon eller engelsk ordbok.
Övrigt	
Antal exemplar i påsen	

Written exam for Software Engineering Theory

Course codes TDDC88, TDDC93, 725G64

Note: When we visit the exam, I and/ or Lena will pass by all students, so you don't need to sit with your hand raised. Just call for our attention when we pass your desk.

Instructions to students, please read carefully

- **Explicitly forbidden aids:** Textbooks, machine-written pages, photocopied pages, pages of different format than A4, other electronic equipment than the computer for running Wiseflow. A silent keyboard, mouse and a webcam might be brought.
- Try to solve as many problems as possible.
- Motivate all solutions.
- Please, draw clearly.
- You may write solutions in either Swedish or English, but don't mix in the solution of the same problem.
- Please, note that the problems are not necessarily written in order of difficulty.
- TIP! Read all exercises in the beginning of the exam. This will give you the possibility to ask questions about all parts of the exam since the examiner will visit you in the beginning of the exam time.

Grading

The exam consists of two parts: Fundamental and Advanced.

The Fundamental part has problems worth 10 credits per area. Areas are Requirements, Planning & Processes, Design & Architecture, Testing & SCM, and Software Quality. Thus, the Fundamental part can give maximally 50 credits.

The Advanced part has problems worth 50 credits in total. Each problem typically requires a solution of several pages.

The maximum number of credits assigned to each problem is given within parentheses at the end of the last paragraph of the problem.

Pass condition: At least 4 credits per area in the Fundamental part **and** at least 50 credits in total. The total amount of credits also includes the bonus credits you might have got in lecture exercises autumn 2021. This gives you the mark 3. If you have at least 4 credits for 4 of the areas in the Fundamental part, then you can still pass if you have more than 60 credits in total.

Higher marks are given based on fulfilled *pass condition* **and** higher amounts of credits according to the following table:

Total credits	Mark
0-49	U (no pass)
50-66	3
67-83	4
84-	5

Multiple-choice questions

In multiple-choice questions, we will ask you to write down the letters A, B, C, or D for the one or two statements that you think are true. Note that you should not write down the statements that you think are false. There are exactly two true statements per question, so answering with three or four alternatives gives 0 credits.

For each statement that you select that is correct (i.e., that the statement is, in fact, true) you get one credit. For each statement that you select that is incorrect (i.e., that the statement is, in fact, false, but you believed it was true) you get minus one credit. Each multiple-choice question can give a maximum of 2 credits and minimum 0 credits, i.e., you cannot get negative credits for one multiple choice question.

Example 1: Assume that you have written down statements A and C. If now statements A and B were true, and statements C and D were false, you would get +1 credit for writing down A, but -1 credit for writing down C. Hence, the total credits for the multiple-choice question is 0.

Example 2: Assume that you have written down statement B. If now statement A and B were true, and statements C and D were false, you would get +1 credit for the multiple-choice question.

Example 3: Assume you correctly wrote both statements A and B. If now statements A and B were true, and statements C and D were false, you would get +1 credit for writing down A, and +1 for writing down B. Hence, the total credits for the multiple-choice question is 2.

Good Luck!

Kristian