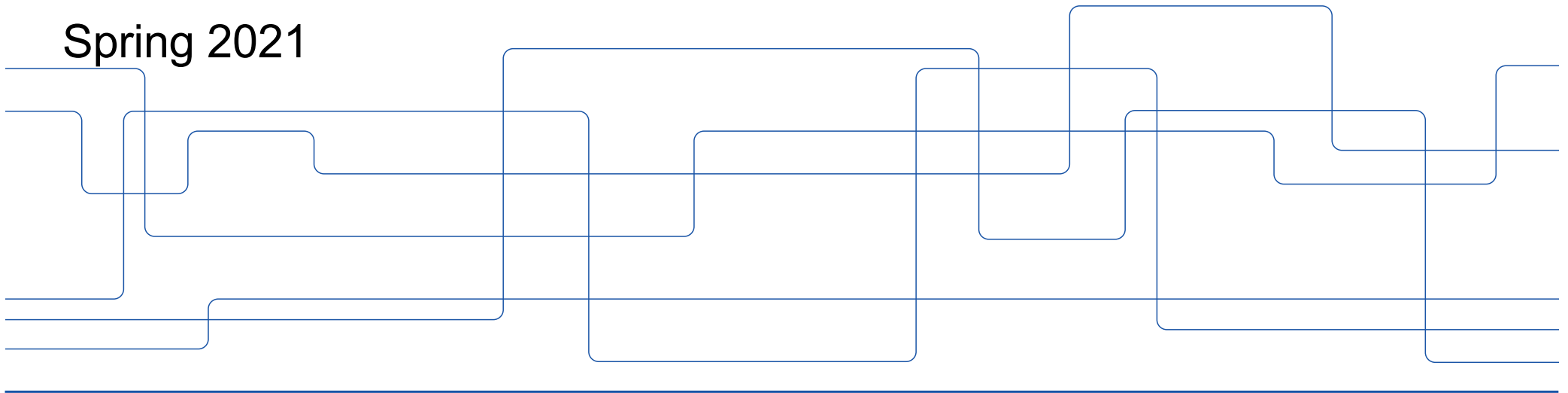




IK1203 Nätverk och Kommunikation

IK1203 Networks and Communication

Spring 2021





Staff

- **Course Responsible** Peter Sjödin
- **Lectures** Markus Hidell and Peter Sjödin
- **Exercises** Markus Hidell, Peter Sjödin and Anders Västberg
- **Teaching assistants** Zahra Alimadadi, Anders Enqvist, Seba Varghese, Voravit Tanyingong, and more
- Contact info in Canvas



In a Nutshell

- Ten lectures
- Four home assignments, plus one
- Four exercises (“Övningar”)
 - Supervision sessions for questions and discussions
- Three lab assignments
- One project assignment
- Written exam in three parts
 - Two partial exams (“Kontrollskrivning” in schedule)
 - Final exam



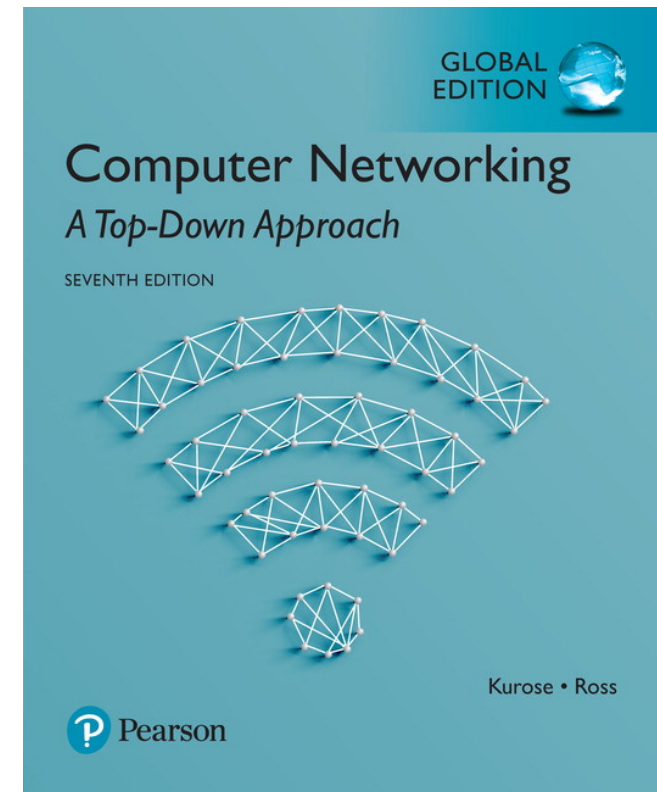
Language of Instruction

- English and Swedish
 - Double set of lectures
 - > *One set in Swedish, one in English (for TCOMK)*
 - Questions in any language
 - Teacher will translate, if needed
 - Exercise supervision
 - > *One session in English and one in Swedish*
 - Labs in English
 - Course material in English
 - > *Slides, course web, textbook, assignment instructions, ...*
 - Exam in English



Course Textbook

- Chapter 1–6 core of the course
- Chapter 7 Wireless Networks
- Chapter 8 and 9 not included



Computer Networking: A Top Down Approach, Global Edition, 7/E. Jim Kurose, Keith Ross. Pearson, Nov 2016.



Course Homepage – Contents

- Course material
 - Lecture slides
 - Reading instructions
- Lab instructions
- Home assignments
 - Online assignments – ”quizzes”
- Project instructions
- Problems for exercises
- Discussion forums
 - Help each other
 - Discussions about content
 - Teacher contacts
 - Only for the purposes of discussing course content, course organization and assignments.

URL: <https://kth.instructure.com/courses/21519>



Course Information and Communication

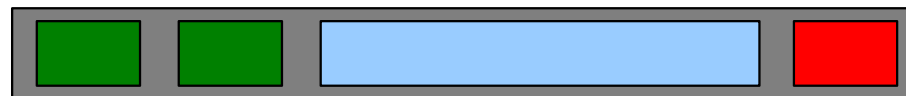
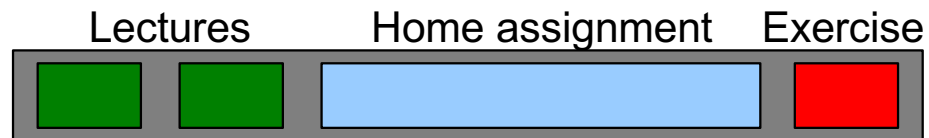
- We use Canvas for communication about the course
- Announcements, schedule changes, etc are communicated through Canvas
 - This is the only communication channel
 - We expect all students to read information posted in Canvas
- It is your responsibility to keep yourself updated
 - Tip: subscribe to notifications by email
 - > *Your account -> Notifications*





Course Organization

- Four blocks consisting of:
 - Lectures
 - Home assignments
 - Exercise (Övning)
- Three lab assignments
- One project assignment





Lectures

- Overview
 - Complements course literature
- Follows the organization of the textbook



Home Assignments

- 4+1 home assignments
 - Introduced one by one, as the course proceeds
 - About one week to complete each assignment
 - Last home assignment is make-up opportunity
- Online assignments – Canvas quizzes
- Pass/Fail
 - 72 points total
 - 44 points for pass
 - At least one point on each of four assignments
 - > *In other words, you need to score on four of five*

Home assignments is examination part: UPG1 (1.5 hp)



Submitting Home Assignments

- Electronic submissions
 - System closes at “due date” – sharp deadline
 - We don’t accept submissions any other way
- Deadlines are strict
 - If you do not submit by the deadline, you fail
 - > *No exceptions*
- You can submit as many attempts as you like!
 - It is the last attempt that counts

The first Home Assignment opens Tuesday Jan 19!



Grading of Home Assignments

- Automatic grading
 - Some problems have special instructions for how to format the solutions
 - Follow the instructions carefully!
- We can do manual grading and grade adjustments
 - We will only do that if absolutely necessary
 - After the fifth assignment
 - For borderline cases
 - > *Only if you need the extra points to pass*



Exercises (Recitations)

- Related to home assignments
 - One for each home assignment
 - (Except for the fifth)
- Problems online
 - Pre-recorded walkthroughs
 - Work through the problems yourself
 - Then participate in online supervision
 - > *Questions and discussions*
 - > *Sign up mandatory*
- Sign up for supervision in Canvas
 - One session in English, one in Swedish



Lab Assignments (I)

- Three assignments in total
- The first two are digital only
 - Lab 1: Web and email
 - Lab 2: Basic Network Services
- Do them on your own computer
- Supervision and guidance
 - > *Canvas discussions*
 - > *Zoom sessions*
- Submission in Canvas
 - Deadlines are strict
 - If you do not submit by the deadline, you fail
 - > *No exceptions*
 - You can submit many times
 - > *It is the last attempt that counts*



Lab Assignments (II)

- The third is in lab room
 - Lab 3: Network Addressing and Routing
- Come well prepared
- Study the instruction *before* the lab assignment
- Set of preparatory questions
 - Online quiz in Canvas
 - > *Solve them before the lab*
- Builds upon lab 2
- **Completing preparatory questions and lab 2 are requirements before doing this lab**
 - Otherwise you need to come back some other time
 - The teaching assistants will check



Project Assignment

- Programming assignments in Java
 - Design and write applications that communicate
- Individual assignment
 - You may collaborate and discuss with others
 - But submit your own solution
- Supervision in relation to labs
 - Teaching staff available for discussions and support
 - In Zoom

Labs + project is one examination part: LABA (3 hp)



Project Submissions

- Solutions submitted in Canvas
 - Automatic evaluation (partly)
 - Follow instructions carefully for what you should submit
 - > *Otherwise your submission will not be recognized and graded*
- Deadlines are strict
 - If you do not submit by the deadline, you fail
 - > *No exceptions*
 - You can submit many times
 - > *It is the last attempt that counts*

Labs + project is one examination part: LABA (3 hp)



Written Exam

- Part A
 - Two partial exams (“Kontrollskrivning”)
 - Each is a one-hour online exam
 1. *Applications and transport-layer protocols*
 2. *The network layer, the data link layer, and wireless communication*
 - Part A is requirement in order to pass the course
 - Can give up to grade D
- Part B
 - Final exam
 - Two-hour online exam
 - For grade “D” or higher
 - Requirement for participation: grade “D” on part A

Written exam is examination part: TENA (3 hp)



Sign Up for Exam

- You have to sign up for all three parts of the exam
- Teachers or administrative staff cannot do it for you



Course Committee

- Please help improve the course by joining the course committee
- Typically meet once during the course
- Course evaluation
- Contact Peter <psj@kth.se>



Summary

- Five course components
 - Lectures
 - Home assignments
 - Exercises
 - Lab assignments
 - Project
- Keep track of the deadlines!
 - Late submissions are not accepted
 - Use the possibility to submit multiple times
- Come well-prepared for lab
 - We will check before you start
- Remember to sign up for the exam