

T-110.1100 Introduction to Data Communications and Multimedia Technology 5op

T-110.1100 Johdatus tietoliikenteeseen ja multimediatekniikkaan kevät 2011

Agenda

- Taking the course in English
- Introductions (mostly in Finnish)
- Overview of the course (mostly in Finnish)
- Practical matters (mostly in Finnish)
- "How the Internet works" (in Finnish)

Taking this course in English

- It is possible to take this course in English
 - Read a book, do some special exercises
 - Only recommended if you can't understand
 Finnish

YOU, ME AND THE ASSISTANTS

Overview

- This course teaches the basics needed to understand how computer and networks based multimedia works
 - Internet and telecommunications networks connect users to the media and transport the data
 - Some media formats are designed with the network in mind
 - Most relevant applications require a basic understanding of security
 - Multimedia and human-computer interaction itself requires understanding a broad range of technical solutions and business, social and legal aspects
- This course has a background in the TML laboratory
 - Now provided by the Computer Science & Engineering and Media Technology departments
- Targeted at non-major students
 - Major students take T-110.2100 and T-111.2400
- Get a foundation for further studies:
 - T-110.4100, T-110.4200, T-111.2400, T-111.4300
 - Majors in Data Communications Software and Media Engineering
- Get a feel for what data communications and media engineering is

Prerequisites

- You need to know how to use
 - E-mail and news for communication
 - WWW and the library to find valid information
 - A simple text editor
 - Basic Unix commands
- Also you have to be able to
 - Read and understand Finnish / English
 - Express and justify your views in written text in Finnish / Swedish / English
 - By default Finnish or Swedish, contact staff for permission to use English

Related courses

- T-110.2100 Johdatus tietoliikenteeseen (5 cr)
 - Data and telecommunications for comp.sci students
 - Only in Finnish
- T-110.2105 Introduktion till datakommunikation (5 cr)
 - Same as T-110.2100, only in Swedish (not available every year)
- S-72.1130 Telecommunication Systems (5 cr)
 - Basic tele- and data communications, lectured in English
- T-111.2400 Multimedia Systems (4 cr)
 - Multimedia, only in Finnish
- T-110.4100 Computer Networks
 - If you want to continue with the network side
- T-110.250 Verkkomedian perusteet
 - Name of this course back when dinosaurs were freshmen

Staff

- Responsible teacher
 - Antti Ylä-Jääski
- Head assistant
 - Jyry Suvilehto
- Lecturers
 - Jyry Suvilehto
 - Sakari Luukkainen
 - Petri Vuorimaa
 - Timo Tossavainen
 - Lauri Savioja
 - N.N.

- Assistants
 - Eetu Jalonen
 - Teemu Kämäräinen
 - Antti Tolonen

Do not send mail to individual persons.
Use the course email address
t-110.1100@tkk.fi for all communication

Communications

- Noppa
 - Make sure you get the news to your e-mail/RSS
- Newsgroup (Otax news): opinnot.tik.media
 - For general discussion
 - Not actively used
- E-mail: t-110.1100@tkk.fi
 - For private questions
- IRC: #media @ IRCnet
 - Recommended for timely questions about homework etc.
 - We encourage assistants to hang there
- Make sure that <student number>@students.hut.fi works

Email

From: Teemu Teekkari

<teemu@tkk.fi>

To: t-110.1100@tkk.fi

Subject: My round 4

submission

Hello, When submitting my answers for round 4 Rubyric acted strangely [description of problem].

Please make sure you grade my *latest* submission.

Teemu Teekkari (12345s)

From: Veijo Tikkilä <sexyhunk_91@hotmale.com

>

To: jyry@starwarsfans.com

Subject: Help!!!!111

Hi, please help me! This is very important and urgent!

Vessu

Passing the course

- To pass the course you have to pass the following
 - Homework assignments
 - An exam or two midterm exams
 - Course feedback (new)
- A completed entire part, homework or exam, is valid for two years

Lectures

- Lectures on Fridays 12.15-14.00 in T1
- If enough participants, an English language study group
- Sign up in Oodi!
 - This is essential as we need your student number for our homework system

Homework assignment - motivation

- The most requested trainable skills for graduating CS major students are
 - Team work skills
 - Verbal reporting skills
- Sister course T-110.2100 drew the lot to train the latter skill
- Most takers of T-110.1100 have little problems with the format of the excercises
- To some questions there are no right answers
 - Convincing the reader that your solution is sound is required
 - This is also necessary in questions where there is a right answer. Just a numerical result is not a good answer!

Homework assignments

- Homework schedule will be on the web.
- 5 rounds, each worth ~20 points
 - 25% mandatory minimum for each round
 - 50% of points to pass
 - 75% of points to get +1 to exam grade
 - Possible to make up one failed round by doing an extra assignment
- Homework is individual
 - Please do not copy!
 - Not from each other
 - Not from the Web or other sources
 - If you work on your homework with a friend, write your solutions yourself and mention this in your submission
- Homework is submitted to the Rubyric system https://rubyric.cs.hut.fi
 - We need you to sign up on this course.
 - Contact in advance if you know you have issues with a DL

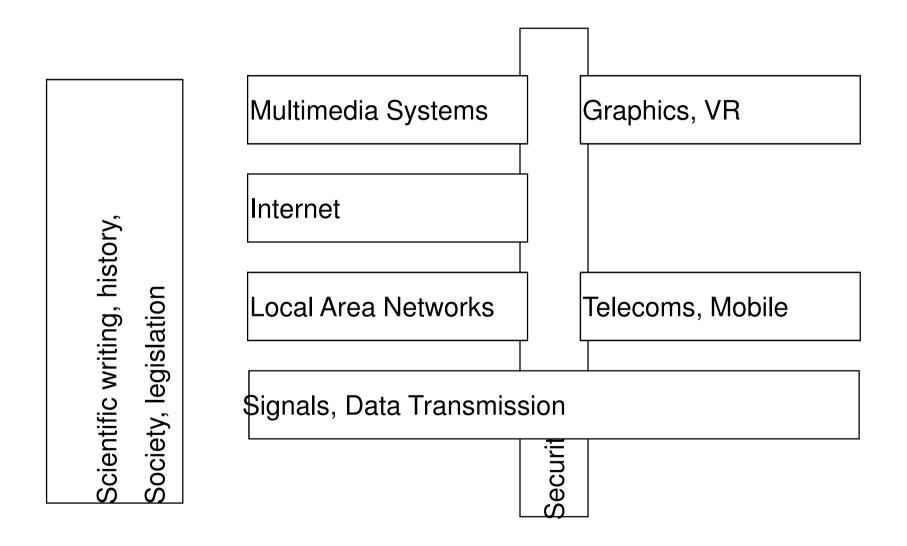
Material

- Lecture topics will be in Noppa
- Lecture slides will appear in Noppa
- Homework material
- Independent information finding is needed for the homework
- No set course book

Course Book

- No set course book, you are free to study the subject as you wish
- Recommended material: Preston Gralla: How the Internet Works, 8th Edition
 - Covers both data communications and multimedia
 - Has a very strong top-down approach, focuses on the big picture and gives an overview of things
- Alternatively recommended: Alberto Leon-Garcia, Indra Widjaja: Communication Networks -Fundamental Concepts and Key Architectures
 - Focuses on data communications
 - Bottom-up approach, has much detailed information on the networking technologies
 - Or any other popular entry level data communications course book (note, data, not telecommunications)

Contents



How to be mean to course staff

- Forget to sign up on the course or an exam on time
 - 5 minutes to add you to the system out of order
 - Slightly annoying
- Fail an assignment round and do the make-up assignment
 - 20 minutes to mark the make-up assignment (no time is budgeted for these, we do it pro arte)
 - Extra work for you
- Send an email and forget your student number
 - 3 minutes to ask for it and slightly annoying
 - Delayed handling of your matter
- Copy straight from a source or another student and get caught
 - Min 8 hrs of work on several bureaucracy levels
 - Possible repercussions for you
 - We take this very seriously

PLEASE REMEMBER TO SIGN UP IN OODI