TEKNILLINEN KORKEAKOULU

T-110.1100 Johdatus tietoliikenteeseen ja multimediatekniikkaan (5 cr)

T-110.1100 Introduction to Data Communications and Multimedia Technology

- **Practical matters**
  - Staff
  - Contacting us
  - Requirements
  - Getting started
- **Overview of the course**
- **"How the Internet Works"**

- Responsible teacher
  - Tapio Takala
- Organization
  - Timo Kiravuo
- Head assistant
  - Jukka Larja
- Lecturers
  - Timo Kiravuo
  - Sakari Luukkainen
  - Petri Vuorimaa
  - Tapio Takala

- Assistants
  - Jukka Larja
  - Pyry Koivisto
  - Atte Kokkinen
  - Juuso Mäyränen
  - Jyry Suvilehto

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T-110.1100 Communications

- Web: http://www.tml.tkk.fi/Opinnot/T-110.1100/
- Newsgroup (Otax news): opinnot.tik.media
  - For course announcements and discussion
- E-mail: T-110.1100@tml.hut.fi
  - For private questions
- IRC: #media
- Make sure that <student_number>@students.hut.fi works

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From: ? ? <coolguy@hotmail.com>

To: kiravuo@tml.hut.fi

Subject: <none>

<html>

<lots of microsoft generate stuff>

<p class=foo><div><font size=4 family=obscur e>I want to take the course. Please help me sign up for the course.<div><font>

   &

<more html> <tag><nag> coolguy</tag>

<html continues><for><another><page><or><so>

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From: Teemu Teekkari <teemu@some_isp.fi>

To: **t-110.1100@tml.hut.fi**

Subject: **About homework round 4**

Hello,

I had some problems submitting **homework round 4** …

(explanation of problem)

Could you please check that you have **graded my _latest_ complete submission.**

Teemu Teekkari (12345s)

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- To pass the course you have to do the following
  - pass the preassignment
  - get enough points for the homeworks assignments
  - pass the exam or two midterm exams
- A passed part, homework or exam, is valid for two years

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- Lectures:
  - Fridays 12.15-14.00 in T1
- If enough participants, an English language study group
- Sign up in WebTopi
- Do the preassignment
  - DL 29.1.2007 at 16:00
- The preassignment is compulsory
  - part of signing up = individual work

- **Objectives**
  - to find out how things work on this course
  - read the instructions, answer the questions and submit it on time!
- **Garding is pass/fail**
  - failed preassignments can be passed by discussing the topics at Kiravuo's reception

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- Homework schedule on the web
- Homework is individual
  - 6 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
- Please do not copy!
  - Not from each other
  - Not from the Web or other sources

- Homework is submitted by email
- Email sent to specific address with
  - subject
  - your assignment as plain text
- You will get a confirmation message as a reply
  - later you will get feedback

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- 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

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- Lecture topics can be seen on course web pages
- Lecture handouts (summaries or slides) are available in course web pages and from Edita
- Homework material
- Independent information finding is needed for the homework

Why This Course?

- You will
  - get an overview of communication networks and multimedia
  - meet professors of the Telecommunication software and Multimedia Laboratory (TML)
  - get a foundation for further studies:
    - T-110.4100, T-110.4200, T-111.2350, T-111.4300
    - Majors in Data Communications Software and Media Engineering

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- ## 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
  - Possibility to pass the written part of the Swedish language test

- ## S-72.1130 Telecommunication Systems (5 cr)
  - Basic tele- and data communications, lectured in English

- ## T-111.2350 Multimedia Technology (4 cr)
  - Multimedia, only in Finnish

- ## T-110.250 Verkkomedian perusteet
  - Old course code for this course

- ## 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

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Scientific writing, history, the world around us

Multimedia Systems

Internet

Local Area Networks

Security

Graphics, VR

Telecoms, Mobile

Signals, Data Transmission