S-38.1145
Introduction to Teletraffic Theory (III) 3 ECTS
Spring 2008

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http://www.netlab.tkk.fi/opetus/s381145/
General information

- Former course code: **S-38.145**
- Spring 2008 course given both in Finnish and in English
- **Lectures:**
  - *Samuli Aalto*, samuli.alto@tkk.fi
  - *Pasi Lassila*, pasi.lassila@tkk.fi
- **Exercises:**
  - *Tuomas Tirronen*, tuomas.tirronen@tkk.fi
- **Course material:**
  - lectures delivered as a **compendium via Edita**
  - use course code **S-38.146 in WWW-TOPI** to get the **English version**!
  - lectures and exercises available **on the web**
  - print the material using your own printer, but **not** the university's printers

[http://www.netlab.tkk.fi/opetus/s38145/](http://www.netlab.tkk.fi/opetus/s38145/)
Object of the course

- First step into the world of Traffic Issues in Telecommunications

- Purpose is to **familiarize** the participants with
  - mathematical modelling of various telecommunication systems and their traffic
  - performance analysis and dimensioning of such systems
Status


S-72.1130 [S-72.423] Telecommunication Systems

S-38.1145 [S-38.145] Introduction to Teletraffic Th.

S-38.3143 [S-38.143] Queueing Theory

S-38.3141 [S-38.141] Teletraffic Theory

Mat-1.2600 [Mat-2.090] Applied Probability, A

S-38.3148 [S-38.148] Simulation of Data Networks
Lectures, exercises and course completion

• **Lectures** (4 hours/week):
  – on Thursdays at 14-16 in lecture hall S3
  – on Fridays at 14-16 in lecture hall S1
  – first time on 17 January (week 3)

• **Exercises** (2 hours/week):
  – on Tuesdays at 16-18 in lecture hall S2
  – first time on 22 January (week 4)

• **Examination**:
  – on Tuesday, 11 March, at 16-19 in lecture halls S3 and S4
  – 5 problems, max. 30 points
  – two retrial examinations

• **Course completion**:
  – pass the examination
## Schedule

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More details on the exercises

- **Demos:**
  - problems and solutions available as a compendium (and on the web) for self-studying

- **Homework exercises:**
  - 3 problems per week
  - available on the web about a week before the corresponding exercise class
  - no retrieval of solutions (instead you have to be present)
  - in the beginning of the exercise class, mark the problems you have solved
  - you can mark if you are ready to present your solution
  - 1 homework point per a marked exercise
  - one additional homework point for electronically given course feedback

- **Bonus points:**
  - 10 homework points = 1 bonus point in the examination
  - 14 homework points = 2 bonus points in the examination
  - 18 homework points = 3 bonus points in the examination

- Bonus points valid for 1 year