



Aalto University

Introduction to the Course Applications and Services in Internet 2011 (5 cr)

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Course Organization

- General Information
- Requirements
- Grading
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General Information

- **When:** 14:15-16:00, Tuesday
- **Where:** Lecture hall T5
- **Who:** Zhonghong Ou (host), guest lecturers Prof. Jukka Nurminen from DCS, Jouni Mäenpää from Ericsson, and others to be announced later
- **How:** signing up at WebOoddi and participating in the lectures, passing two assignments
- **What:** T-110.5150, 5 credit points, various topics covering different aspects of Internet-based applications and services:
 - P2P networks;
 - SIP technology;
 - Cloud computing
 - Web application;
 - Internet of Things

Course Requirements

- Prerequisite course: T-110.4100 Computer Networks
 - Basic knowledge about TCP/IP, networking, DNS etc.
- Final exam
 - Covering the topics given in the lectures
- Assignment
 - Two programming assignments
 - P2P network
 - Cloud platform testing (most likely Amazon EC2)
 - Details announced later
- Attendance
 - Recommended and encouraged
- Giving feedback
 - Giving feedback is compulsory part of all T-109/110 courses
 - Detailed information regarding feedback form, link etc, will be provided later

Grading

- Pass each separately
 - Final exam (60%)
 - Two assignments(40%)
 - P2P network (estimated 20 hours, 40%)
 - Cloud platform (estimated 30 hours, 60%)
- Scale
 - 0 Failure
 - 1 Pass
 - 2 Adequate
 - 3 Good
 - 4 Very Good
 - 5 Excellent

Lectures

Date	Topic	Lecturer
Tu 06/09	Course overview	Zhonghong Ou
Tu 13/09	Introduction of P2P	Zhonghong Ou
Tu 20/09	P2P content search and delivery	Jukka Nurminen
Tu 27/09	Mobile P2P and energy-efficiency	Jukka Nurminen
Tu 04/10	SIP overview	Jouni Mäenpää
Tu 11/10	SIP extensions and P2PSIP	Jouni Mäenpää
Tu 18/10	Web application server side	TBD
Tu 25/10	Exam week	No lecture
Tu 01/11	Web application client side	TBD
Tu 18/11	Cloud computing-Virtualization	Zhonghong Ou
Tu 15/11	Cloud services	Zhonghong Ou
Tu 22/11	IoT services	TBD
Tu 29/11	Embedded Web Services on IoT	TBD
Tu 06/12	Final discussion, review	TBD
Exam week	Final exam	

Contact Information

- Course web page:
 - <https://noppa.aalto.fi/noppa/kurssi/t-110.5150/etusivu>
- Contact email:
 - zhonghong.ou@aalto.fi
- Office hour:
 - Fri 10-11 room A 109
- Questions & Suggestions?