

## Teaching portfolio

### **1. Teaching CV: A list of any lecturing and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD) as well as any external examiner tasks.**

Broad teaching experience on undergraduate, graduate and PhD level

Courses - Fall semesters

ITC5 "Distributed Systems and Network Technologies" (50% of 5 ECTS course)

NDS7 "Communication Networks and Ambient Intelligence" (50% of 5 ECTS course)

lectures on security mechanisms for IT-security course, Master in Softwareconstruction

NDS9, CA9, "Systems of Systems" (several lectures on mobility aspects)

Courses - Spring semesters

EIT6, ITC6, MATTEK4 "Introduction to Probability and Statistics" (50% of 5 ECTS course)

NDS8, WCS8 "Wireless Systems Performance" (33% of 5 ECTS course)

Organizer of SEMCON, conference for the 7th semester students under the Study Board of Electronics and IT

Supervision: supervision of student groups on the following semesters ITC5, CS6, NDS7-10

List of projects supervised during Fall 2015:

ITC5 group 550, project title "Smart City: emergency vehicle"

NDS7 group 720, project title "A real-world implementation comparative study of WSN MAC protocols"

NDS7 group 721, project title "Evaluation of a stability metric based objective function for RPL" , in collaboration with Kamstrup

NDS9 group 920, project title "Evaluation of the wireless link capacity by estimating the throughput of the communication channel based on the signal strength"

NDS9 group 921, project title "" , long master thesis, in collaboration with Telenor

List of projects supervised during Spring 2015:

CS6 project title "Performance simulation of VoIP for emergency scenarios"

NDS8, project title "Automated solution for route statistics collection", in collaboration with Telenor

NDS8, project title "EAP-SIM authentication for mass events"

NDS8, project title "Intelligent Load Balancing for NetMap Measurement Server Infrastructure"

NDS10, project title "KAMIS: Kamstrup AMI network Simulator for RPL protocol evaluation", in collaboration with Kamstrup

NDS10, project title "The Service Provider Multi-layer Monitoring System"

Co-supervisor of 3 PhD students

### **2. Study administration: A list of any study administration tasks, e.g. study board membership, head of studies or semester or course coordinator, accreditation, etc.**

section representative in Teaching Committee of ES

Fall semesters

coordinator ITC5

coordinator NDS7/ NDS9

Spring semesters

coordinator EIT6 (for the whole 6th semester EIT and ITC students)

coordinator of Communication Systems 6th sem line

coordinator NDS8 / NDS10

### **3. University pedagogy qualifications: A list of any completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc.**

Adjunkt pædagogikum (AAU, 2008)

PBL-workshop (AAU)

Course for PhD supervisors (AAU, 2010)

### **4. Other qualifications: Conference attendance, editorials, presentations, etc. relating to education, 'University Teaching Day', etc.**

free-time activity: a teacher for kids at Russian Sunday school, Aalborg

### **5. Teaching activity development and teaching materials: A list of any contributions to the development of new modules, teaching materials, study programmes, e-learning, collaboration with external business partners, etc.**

- Development of course material, slide sets, notes, exercise set and workshop material for different courses, mainly in the fields of communication technologies; distributed systems; applied probability theory
- Active collaboration with local, Danish and international industries and research centers (e.g. Telenor, Kamstrup, Tieto, FTW) for joint teaching activities, mainly for joint student projects; organization of study tours
- Active participation and driving force for new study regulations for Networks and Distributed Systems master specialization (last revision process in 2006- 2007).

## **6. Teaching awards you may have received or been nominated for.**

none

## **7. Personal reflections and initiatives: Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogic development, plans for following up on feedback/evaluations from students, etc.**

- Reflections: I take into account and constantly develop teaching material and approaches used based on self evaluation of the teaching process; direct and indirect feedback from students; discussions with my colleagues
- Motivation: I believe that motivated students learn best. Thus, I put a lot of focus on developing "right" projects for the students that are: 1) in line with students own preferences; 2) utilizes knowledge obtained in the courses, preferably courses from the same semester; 3) are done in collaboration with industrial partners.
- Independent thinking and structural approach to problem solving: this is what I encourage students for.

## **8. Any other information or comments.**

Skriv dit svar her...