

## 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.**

Courses:

1. Dynamics and Actuation, bachelor course, 4th semester (MP5)
2. Mechanical Systems and Vibrations, bachelor course, 6th semester (MP6)
3. Energy Variational Methods and Applications, master course, 8th semester (DMS2)
4. Robot dynamics, biomechanics and biological actuators, bachelor course, 3rd semester (ROB3)
5. Advanced mechanics modeling, PhD course

Supervisions:

Student project supervision at MP5, MP6, DMS2 DMS4

PhD supervisors to six phd. Two of them have been awarded phd degrees

External examiners:

Bachelor and master thesis exam: Århus University

PhD thesis examiner: Lappeenranta University of Technology, Finland; RMIT University, Australia; Universiti Brunei Darussalam

**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.**

Course coordinator for:

1. Dynamics and actuation
2. Mechanical Systems and Vibrations
3. Robot Dynamics, biomechanics and biological actuators
4. Advanced mechanics modeling

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

AAU pedagogy course for assistant professors, Oct 2006-Jan 2008

AAU course on presentation technique, Spring 2009

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

EU Erasmus+, 2016, KA2 - Cooperation for Innovation and the Exchange of Good Practices  
Strategic Partnerships for higher education, joint application with University of Catania.

**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 new courses including:

- (1) Robot Dynamics, biomechanics and biological actuators
- (2) Advanced mechanics modeling

Application of Velux Visiting Professorship in collaboration with prof. Jorge Angeles, McGill University, Canada, 2013-2015

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

Type your answer here...

**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.**

Teaching is a kind of creative art. Teacher's passion, knowledge and teaching methods or skills are factors for achieving excellence of teaching.

(1) Knowledge. A teacher should have a broad and deep knowledge on the subjects of teaching. This requires a teacher has to keep learning all the time to get new knowledge, not only from textbook, but also other sources. My teaching benefits greatly from researches. The research results on mechanical systems and robots brings much useful and interesting information to the courses and student Projects. Research-lead teaching is critically important for university teacher.

(2) skills. The teaching skills are something that we have to develop through our carrier. The teaching skills will help the alignment of teaching and learning, so students are able to learning the knowledge and develop their skills. Many skills are needed, for example, language skills for clear communication, writing and drawing skill for well-organized presentation, analytical skill to solve quickly problems, etc.

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

Type your answer here...