

Undervisnings CV

Pedagogical view: Educational practice - Basis / values

The teaching should be aimed at a high-level education of students in the chosen profile. This main goal dictates the development of the course curriculum, choice of recommended textbooks, lecture presentation form and the form of the students' evaluation. The teaching process can be successful only if both a teacher and a student are interested in the final result – a high-quality education.

This implies that there should be efforts from both sides, although the teacher's role is predominant. One of the main teacher's purposes is thus to interest students in the subject which he or she teaches. This ensures that a student will be actively involved in the course of training that guarantees good results. A teacher should show during the course how the subject under consideration is related to the students' professional profile and to illustrate that with examples.

Another important point is the initial educational background of students, especially of those coming from different countries. There are some objective reasons for that because of differences in the national educational programs. It is the teacher's task to choose an appropriate level of the course presentation which would be understandable for students. This dictates the necessity to bridge some gaps in their background during the course.

Teaching cannot be effective without an effective control of what has been done by students. Such a control should be individual. Although some assignments can be fulfilled in groups, their control should provide an individual evaluation of the student's knowledge and activity.

A teacher should have an opportunity to correct the course curriculum, if necessary. A good feedback for that is the course evaluation carried out by students. This should not lower, however, the quality level of education.

Teaching experience

Below is the list of the courses which I have taught at MCI since 2009, as well as my previous teaching experience.

Lecturer in the graduate course 'Physical Principles of Nanoelectronics', Moscow State University, Moscow, Russia, 1991 – 1994.

Lecturer in the course for diploma and PhD students 'Modern Surface Science' (5 ECTS), Odense University, Odense, Denmark, 2000.

Lecturer in the undergraduate course 'Surface and Interface Optics and Spectroscopy' (5 ECTS), Odense University, Odense, Denmark, 2004.

Lecturer in the undergraduate course 'Modern Surface Optics' (5 ECTS), Odense University, Odense, Denmark, 2005. *Courses taught at MCI. Numerical Analysis*, 8. semester, mandatory, lectures + assignments, 5 ECTS, 2009-2018, Pass/fail based on written reports. *INFO*, Interface Optics, 9. semester, mandatory, lectures + assignments, 5 ECTS, 2010-2012, Oral exam. *SPRO4*, Semester Project, 4. semester, mandatory, lectures + project, 5 ECTS, 2010-2011, Oral exam + project report. *AEM*, Applied Electromagnetics, 6. semester, mandatory, lectures + assignments, 5 ECTS, 2011-present, pass/fail based on written reports. *MMM1*, Mathematical Modelling for Mechatronic Engineering, 8. semester, mandatory, lectures + project, 5 ECTS, 2012-2014, project report. *WAVES*, 4. semester, mandatory, lectures, 5 ECTS, 2012, oral exam. *DYN3M*, Dynamic Systems, 3. semester, lectures + assignments, 5 ECTS, 2012-2015, written exam. *MMM2*, Mathematical Modelling of Mechatronic Systems 2, 9. semester, mandatory, lectures + assignments, 5 ECTS, 2017-2018, written exam. *PDE*, Partial Differential Equations, 8. semester, mandatory, lectures + assignments, 5 ECTS, 2019-present, written exam.

Formal pedagogical training

Introductory course to Danish University teaching (SDU, Odense) 2010.

Course: Supervision - roles and relations - TEK Sønderborg - F19.

Other activities related to teaching and teaching development

Examiner in the undergraduate course 'Quantum Mechanics', Leningrad State University, Leningrad, USSR, 1981 – 1984.

Supervision of a diploma student, Leningrad State University, Leningrad, USSR, 1981 – 1984.

Supervision of PhD students, MCI, 2012 – 2015.

Supervision of a bachelor student, MCI, 2016.