

Teaching Portfolio

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FORMAL EDUCATIONAL TRAINING

Attended and passed the course “Adjunktpædagogikum 2005” arranged by University of Southern Denmark (SDU)

Passed the course “Teaching in English at SDU”, 25. April 2016

ADMINISTRATIVE TASKS RELATED TO EDUCATION

Former member of the PhD stipendium committee at the Faculty of Science, SDU

Chairman (2008–2009) for educational committee (IFKUU) at the Department of Physics and Chemistry at SDU

Member (2006–2013) of the educational committee (FKFUU) at the Department of Physics, Chemistry, and Pharmacy at SDU

EXPERIENCE WITH TEACHING, SUPERVISION, AND EXAMINATION

I have planned and coordinated the following courses:

[1] Organic Chemistry (KO02, 10 ECTS) for 2nd year students in the period 2003–2006

[2] Synthetic Chemistry (KO03, 5 ECTS) for 3rd year students in the period 2003–2006

[3] Organic Chemistry (KE505, 10 ECTS) for 2nd year students in the period 2007–2009, 2013–2014 and 2018–present

[4] Molecular Synthesis (KE506, 10 ECTS) for 3rd year students in the period 2007–present

[5] Applied Heterocyclic Chemistry (KE526/KE823, 5 ECTS) for 3rd and 4th year students in the period 2011–2018

As part of a major change in the educational program at the Faculty of Science at the University of Southern Denmark, the courses KO02 and KO03 were replaced by the courses KE505 and KE506 in 2007. During this process, I revised the course in organic chemistry (i.e., KO02) from being a purely theoretical course (60 lectures and 30 tutorials) to a new course (i.e., KE505) consisting of both a theoretical part (36 lectures and 34 tutorials) and a practical part (24 hours lab

exercises). The motivation and rationale for this design were to establish a coherent course in organic chemistry which also provides the students with practical skills in synthetic organic chemistry.

Teaching in the period 1994–1997 (Master student) at SDU

1994–1996: Odense University, Department of Mathematics and Computer Science
Instructor in mathematics (Mat A) for 1st year students

1995–1997: Odense University, Department of Chemistry
Instructor in laboratory course in synthetic organic chemistry (KO03) for 3rd year students

1996–1997: Odense University, Department of Chemistry
Instructor in laboratory course in inorganic identification (KE03lab) for 1st year students

Teaching in the period 1998–2001 (PhD student) at SDU

1998: Odense University, Department of Chemistry
Teacher in laboratory course in organic chemistry (KO71) for 1st year students

1998: Odense University, Department of Chemistry
Instructor in organic chemistry (KO02) for 2nd year students

1998: Odense University, Department of Chemistry
Teaching assistant in advanced organic chemistry (KO31) for PhD students

1998: Odense University, Department of Chemistry
Teacher in laboratory course in synthetic organic chemistry (KO03) for 3rd year students

2001: Odense University, Department of Chemistry
Teacher in laboratory course in synthetic organic chemistry (KO03) for 3rd year students

Teaching in the period 2003–2004 (Assistant Professor) at SDU

Autumn 2003: Odense University, Department of Chemistry
Teacher (30 lectures + 30 tutorials) in organic chemistry (KO02) for 2nd year students

Spring 2004: Odense University, Department of Chemistry
Teacher (15 lectures + 30 tutorials) in organic chemistry (KO02) for 2nd year students

Autumn 2004: Odense University, Department of Chemistry
Teacher (30 lectures) in organic chemistry (KO02) for 2nd year students

Autumn 2004: Odense University, Department of Chemistry
Coordinating Teacher in laboratory course in synthetic organic chemistry (KO03) for 3rd year students

Autumn 2004: Odense University, Department of Chemistry
Teacher (108 lectures) in laboratory course in synthetic organic chemistry (KO03) for 3rd year students

year students

Teaching in the period 2005–2008 (Associate Professor) at SDU

Spring 2005: Odense University, Department of Chemistry

Teacher (15 lectures) in organic chemistry (KO02) for 2nd year students

Spring 2005: Odense University, Department of Chemistry

Teacher (8 lectures) in heterocyclic chemistry (KO30) for master and Ph.D. students

Autumn 2005: Odense University, Department of Chemistry

Teacher (30 lectures) in organic chemistry (KO02) for 2nd year students

Autumn 2005: Odense University, Department of Chemistry

Coordinating Teacher in laboratory course in synthetic organic chemistry (KO03) for 3rd year students

Spring 2006: Odense University, Department of Chemistry

Teacher (15 lectures) in organic chemistry (KO02) for 2nd year students

Autumn 2006: Odense University, Department of Chemistry

Coordinating Teacher in laboratory course in synthetic organic chemistry (KO03) for 3rd year students

Spring 2007: Odense University, Department of Physics and Chemistry

Teacher (42 lectures) in organic chemistry (KE505) for 2nd year students

Autumn 2007: Odense University, Department of Physics and Chemistry

Coordinating Teacher in laboratory course in molecular synthesis (KE506) for 3rd year students

Spring 2008: Odense University, Department of Physics and Chemistry

Teacher (42 lectures) in organic chemistry (KE505) for 2nd year students

Teaching in the period 2008-present (Professor) at SDU

Autumn 2008: Odense University, Department of Physics and Chemistry

Coordinating Teacher in the laboratory course in synthesis (KE506) for 3rd year students

Autumn 2008: Odense University, Department of Physics and Chemistry

Teacher (10 lectures) in basic chemistry (KE501) for 1st year students

Spring 2009: Odense University, Department of Physics and Chemistry

Teacher (21 lectures) in organic chemistry (KE505) for 2nd year students

Autumn 2009: Odense University, Department of Physics and Chemistry

Coordinating Teacher in the laboratory course in synthesis (KE506) for 3rd year students

Spring 2010: Odense University, Department of Physics and Chemistry
Teacher (30 lectures) in the laboratory course in synthetic organic chemistry (KE505) for 2nd year students

Autumn 2010: Odense University, Department of Physics and Chemistry
Coordinating Teacher in the laboratory course in synthesis (KE506) for 3rd year students

Autumn 2010: Odense University, Department of Physics and Chemistry
Teacher (48 lectures) in the laboratory course in synthesis (KE506) for 3rd year students

Autumn 2010: Odense University, Department of Physics and Chemistry
Teacher (34 tutorials) in basic chemistry (KE501) for 1st year students

Spring 2011: Odense University, Department of Physics and Chemistry
Teacher (20 lectures and 8 tutorials) in applied heterocyclic chemistry (KE523/KE826) for 3rd and 4th year students

Autumn 2011: Odense University, Department of Physics and Chemistry
Coordinating Teacher in the laboratory course in synthesis (KE506) for 3rd year students

Autumn 2011: Odense University, Department of Physics and Chemistry
Teacher (34 tutorials) in basic chemistry (KE501) for 1st year students

Spring 2012: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (20 lectures and 8 tutorials) in applied heterocyclic chemistry (KE523/KE826) for 3rd and 4th year students

Autumn 2012: Odense University, Department of Physics, Chemistry, and Pharmacy
Coordinating Teacher in the laboratory course in synthesis (KE506) for 3rd year students

Autumn 2012: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (48 lectures) in the laboratory course in synthesis (KE506) for 3rd year students

Autumn 2012: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (12 tutorials) in basic chemistry (FF503) for 1st year students

Spring 2013: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (20 lectures and 8 tutorials) in applied heterocyclic chemistry (KE523/KE826) for 3rd and 4th year students

Spring 2013: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (42 lectures) in organic chemistry (KE505) for 2nd year students

Autumn 2013: Odense University, Department of Physics, Chemistry, and Pharmacy
Coordinating Teacher in the laboratory course in synthesis (KE506) for 3rd year students

Autumn 2013: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (70 lectures) in the laboratory course in synthesis (KE506) for 3rd year students

Spring 2014: Odense University, Department of Physics, Chemistry, and Pharmacy

Teacher (20 lectures and 8 tutorials) in applied heterocyclic chemistry (KE523/KE826) for 3rd and 4th year students

Spring 2014: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (42 lectures) in organic chemistry (KE505) for 2nd year students

Autumn 2014: Odense University, Department of Physics and Chemistry
Teacher (48 lectures) in the laboratory course in synthesis (KE506) for 3rd year students

Spring 2015: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (30 lectures and 12 tutorials) in applied heterocyclic chemistry (KE523/KE826) for 3rd and 4th year students

Autumn 2015: Odense University, Department of Physics and Chemistry, and Pharmacy
Teacher (48 lectures) in the laboratory course in synthesis (KE506) for 3rd year students

Spring 2016: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (30 lectures and 24 tutorials) in applied heterocyclic chemistry (KE523/KE826) for 3rd and 4th year students

Autumn 2016: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (72 lectures) in the laboratory course in synthesis (KE506) for 3rd year students

Spring 2017: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (30 lectures and 24 tutorials) in applied heterocyclic chemistry (KE523/KE826) for 3rd and 4th year students

Autumn 2017: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (96 lectures) in the laboratory course in synthesis (KE506) for 3rd year students

Autumn 2017: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (48 lectures) in organic chemical analysis and separation (KE510/KE822) for 3rd and 4th year students

Spring 2018: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (30 lectures and 24 tutorials) in applied heterocyclic chemistry (KE523/KE826) for 3rd and 4th year students

Spring 2018: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (36 lectures) in organic chemistry (KE505) for 2nd year students

Autumn 2018: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (48 lectures) in the laboratory course in synthesis (KE506) for 3rd year students

Spring 2019: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (36 lectures + 34 tutorials) in organic chemistry (KE505) for 2nd year students

Autumn 2019: Odense University, Department of Physics, Chemistry, and Pharmacy
Teacher (48 lectures) in the laboratory course in synthesis (KE506) for 3rd year students

Supervision

In the period 2002–2019, I have supervised 56 Bachelor Projects, 44 Masters Dissertations, 15 PhD Theses, 3 Guest PhD students, 3 Research Assistants, 10 Post Docs, and 36 Other Projects

Examination

Responsible for the written examination in Organic Chemistry (KO02/KE505) at the University of Southern Denmark

Responsible for the oral examination in Synthesis (KE506) at the University of Southern Denmark

Responsible for the oral examination in Applied Heterocyclic Chemistry (KE526/KE823) at the University of Southern Denmark

Internal examiner in the oral examination of Supramolecular Chemistry and Nanochemistry (KO/KOP69 and KE805) at the University of Southern Denmark

External examiner in the written examination (~300 students) Organic Chemistry for Bioscience at the University of Aarhus (2011–2017)

External examiner for a total of 21 PhD theses — 17 in Denmark, 1 in France, 1 in Spain, 1 in the United Kingdom, and 1 in Switzerland

METHODS, MATERIALS, AND TOOLS

Methods

In the past 25 years, I have been teaching at bachelor, master, and PhD level at the University of Southern Denmark (SDU), firstly as a master and PhD student, later as an assistant/associate professor, and finally as a full professor. During my master and PhD studies, I acted as instructor in class teaching (mathematics and chemistry) and in lab courses (inorganic and organic chemistry). As assistant/associate/full professor, I have been a teacher in inorganic chemistry lectures (~10–300 students) as well as a teacher in class teaching (~25 students) and in lab courses (~18 students). It is my experience that teaching in lab courses provides the closest contacts between the students and the teacher and also provide the teacher with the best knowledge about the students theoretical and practical levels.

Materials and Tools

During my teaching activities at the University of Southern Denmark, I have made extensive use of the e-learnplatform (Blackboard e-Education platform) and produced the following teaching materials:

[1] J. O. Jeppesen, N. Svenstrup, J. Lau, C.J. McKenzie, S. F. Hansen "KO03 – Kemisk syntese" Institut for Fysik og Kemi, Syddansk Universitet, 2006

[2] J. O. Jeppesen, N. Svenstrup, J. Lau, S. W. Hansen, S. Bähring "KE505 – Organisk Kemi, Øvelsesvejledning" Institut for Fysik og Kemi, Syddansk Universitet, 2014

[3] J.O. Jeppesen, S. W. Hansen, S. Bähring, N. Svenstrup, J. Lau, C. J. McKenzie "KE506 – Syntese, Øvelsesvejledning" Institut for Fysik og Kemi, Syddansk Universitet, 2013

[4] J. O. Jeppesen, F. J. Larsen "KE505 – Organisk Kemi, Øvelsesvejledning" Institut for Fysik og Kemi, Syddansk Universitet, 2019