

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.

Co-lecturer of the courses "Conductive polymers" and "Methods of physical experiment" for master students at Belarusian State University (BSU) in years 1998, 1999 and 2001.

Assistant of the course "Atomic and Molecular Physics" for bachelor students at University of Gothenburg (UGOT) in 2004–2006. In years 2007-2009 lecturer and examiner of this course.

Development and supervision of the laboratory "Pulsed NMR" for the course "Experimental Physics - Spectroscopy Methods" (master students) at UGOT/Chalmers University of Technology (Chalmers) in years 2005 and 2006.

Development and supervision of two laboratory projects for Nanoparticles Summer School in Gothenburg (PhD students level) in year 2007.

Lecturer and examiner of the course "Clusters, Fullerenes and Nanotubes" for master students at UGOT/Chalmers in years 2007 and 2008.

Co-lecturer and co-examiner of the course "Atomic, Molecular and Cluster Physics" for master students at UGOT/Chalmers in year 2008.

Co-lecturer of the course "Microscopy to Probe the Quantum World" for PhD students at Chalmers in year 2009.

Lecturer and examiner of the course "Advanced Experimental Physics: Solid State" for international master students at University of Rostock in 2010/2011.

Lecturer and examiner of the course "Electromagnetism" for bachelor students at Aalborg University (AAU) in 2011-2022.

Lecturer and examiner of the course "Physics and Chemistry of Surfaces" ("Surface Science" before 2017) for master students at AAU in 2012-2023.

Lecturer and examiner of the course "Semiconductors: Physics, Devices and Engineering" ("Semiconductor Physics" before 2018) for master students at AAU in 2012-2022.

Lecturer and examiner of the course "Astrophysics and Astronomy" for bachelor students at AAU in 2013-2021.

Co-lecturer and examiner of the course "Optoelectronics" for bachelor students at AAU in 2022 and 2023.

Co-lecturer of the course "Modern Power Semiconductors and their Packaging" for PhD students at AAU in 2015-2018.

Co-lecturer of PhD course "Design of Modern Power Semiconductor Components" at AAU in 2018-2022.

Co-lecturer of PhD course "Design and Technology of Power Devices and Modules for Traction Applications" at AAU in 2023.

Organizer of PhD course "Microscopy and Spectroscopy Characterization Methods" at AAU in 2022 and 2023.

Supervision of student projects at AAU in 2012-to now (around 30 semester projects, 6 bachelor and 15 master projects).

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.

Coordinator of 3d, 4th and 10th semesters for physics students in 2012-2021.

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

The courses "Teaching, learning and evaluation" and "Supervision of research: Principles and practice" were taken at Chalmers University of Technology in year 2006.

Associate Professor (Docent) qualification from University of Gothenburg, 2006.

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

Member of organising committee of 1st, 2nd and 3rd International Conferences on Higher Educational Establishments' Science, Industry, International Co-operation, Minsk (years 1997, 1998 and 1999).

Organisation of open hours and laboratory tours at the Department of Physics, UGOT (short presentations and demonstration of research activity) for gymnasium and university students as well as gymnasium teachers (on a regular basis, a few times every year between 2004-2009).

Organisation and contribution to the numerous visits of gymnasium students to the Department of Physics and Department of Materials and Production, AAU in 2012-to now.

Contribution to organisation of Talentakademi at AAU in 2018-2020.

Popular lectures about Nanoscience and Nanotechnology at AAU in 2021-2022.

Contributed to organisation of Industry Inspiration Day for students at the Department of Materials and Production, AAU in 2022.

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.

Book "Ion Implantation of Polymers" in co-authorship. This book can be used for teaching purposes on graduate level.

Textbook "Physics of conductive polymers: Lecture course" in co-authorship. This book was (and still partly) used for teaching at the Department of Semiconductor Physics of BSU.

Laboratory manual "Pulsed NMR" for the course "Experimental Physics - Spectroscopy Methods", UGOT/Chalmers, 2005.

Laboratory manual "Inert Gas Clusters: Magic numbers" for the course "Clusters, fullerenes and nanotubes", UGOT/Chalmers, 2007.

Laboratory manual "Metal Cluster Production and Deposition" for Nanoparticles Summer School, UGOT, 2007.

Laboratory manual "SPM Characterisation of Supported Metal Nanoparticles" for Nanoparticles Summer School, UGOT, 2007.

This manual was partly re-written and then used for the course "Microscopes to Probe the Quantum World".

Laboratory manual "EFM and KPFM in Application to Polymers" for International PhD School on Application of SPM, Aalborg, 2013.

For all the courses taught by the applicant at UGOT/Chalmers, University of Rostock and AAU, web-pages of the courses were developed and handouts of lectures were prepared.

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.

Type your answer here...

8. Any other information or comments.

Type your answer here...