

Teaching portfolio

1. Teaching CV: A list of teaching and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD). Please state the teaching method used (e.g. lecture, class teaching, exercises, supervision, examination, coexamination, distance teaching, internet-based teaching and evaluation of teaching). Please also indicate the language of instruction.

I am continuously involved in teaching of physicists, oncologists, and other staff working with radiotherapy, such as biomedical laboratory scientists, radiographers, and nurses. This teaching includes new treatment techniques, the use of equipment, and the development and updating of clinical guidelines. My teaching and supervision at Bachelor, Master and PhD levels, are detailed below.

My teaching experience began in 2004, when I started teaching radiographer students in radiation safety, including both theoretical instruction and practical exercises. Since then, new teaching topics have been added, while others have been phased out. Below is a list of my most recent teaching and supervision responsibilities, categorized by type and academic level.

Teaching activities:

2024 PhD course '3rd Symposium in Advances in Biomedical Engineering and Neuroscience – patient enrollment in clinical trials'

2021 – present Physics and Radiotherapy for Medical students at Department of Clinical Medicine

2020 – present Introduction to Radiotherapy for Medical students at Department of Clinical Medicine

PhD supervision

Co-supervisor for PhD study "Dual Energy in Radiotherapy - a tool for accurate delineation of tumor and organs at risk". Student enrolled at AAU 2024.

Co-supervisor for PhD study 'Characterization of patient specific PTV margins – based on multiple MRI scans before and during treatment to obtain treatment strategy for dose escalation'. Defence and approved study program 2024.

Co-supervisor for PhD study 'Outcome and side effects of high-dose radiation therapy in patients with non-small cell lung cancer'. Defence and approved study program 2021.

Post graduate educations

Main supervisor for Medical Physicist educational program at the Department of Medical Physics, Aalborg University Hospital. Since 2017 six physicist have completed the Medical Physicist education.

Master's Students

Five projects in relation to master students at Department of Clinical Medicine and Health science, Aalborg University and Aalborg University Hospital, from 2021 to present.

2. Study/programme administration and management: Experience in programme management and coordination. A list of study administration tasks, e.g. study board membership, chair of study board, semester or course coordinator, accreditation tasks, etc. Experience in planning teaching activities. Experience in programme development. Participating in committees and commissions etc. on education issues.

- Since 2017, responsible for the education of Medical Physicists specializing in Oncology at Aalborg University Hospital, in accordance with the Danish Health Authority's Executive Order No. 1252 of November 11, 2010, on the specialist training of medical physicists. Manages and coordinates the training program and course schedule, as well as local approval of training objectives (The training is ultimately approved by the education council under DSMF, which handles communication with the Danish Health Authority).

- From 2021 onwards, member of the Education Committee for Clinical Teaching in Oncology and Medical Physics at the Clinical Institute, Aalborg University. Responsible for planning the scope and content of the teaching.

- In 2023, initiated research theme days at the Department of Medical Physics. Coordinates content and arrangements with external speakers.

3. Formal pedagogical training: A list of completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc. Written assessment from the course in university pedagogy for assistant professors. Participation in conferences on pedagogy and didactics. Please enclose any documentation

of the above, such as course certificates, references, etc

- 2024: Clinical Training Course, Aalborg University, Denmark
- 2022: University Pedagogical Program, Aalborg University.
- 2020: Basic Course in University Pedagogy, Aalborg University.
- 2011: Basic Course in Educational Theory and Practice, Aarhus University.

4. Other qualifications: Conference contributions and attendance, contributions to debates, scientific articles on pedagogical issues etc. Peer supervision, editorials, mentoring experience or other types of competence development activities.

Responsible for research at Aalborg University Hospital, Department of Medical Physics since 2017.

Senior supervisor at the PhD Forum under the Clinical Cancer Research Center (KKFC), starting in 2023. Organizes scheduled meetings/seminars (one to two per month) where PhD students affiliated with KKFC meet across specialties along with their supervisors. Senior supervisors and PhD students present research-related topics (journal club), which are then discussed with a focus on the strengths and weaknesses of the studies, as well as new methodological approaches. Feedback is provided on presentation style, including content, methods, and techniques used to effectively convey the message to the audience. Emphasis is placed on incorporating new tools and techniques from pedagogical courses and seminars. This applies to both PhD students and supervisors, all of whom gain expertise in modern communication tools

5. Pedagogical development and research: Development of new courses, teaching materials, teaching methods, examination types or other types of pedagogical development. Didactic and pedagogical research. Cooperation with external collaboration partners.

Type your answer here...

6. References on your teaching skills from superiors or colleagues. Teaching evaluations and any teaching awards received.

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 pedagogical development, plans for following up on student feedback/evaluations, etc. Personal reflections on your own pedagogical practice, including objectives, methods and implementation. This should include an analysis and a reasoned description of your pedagogical activities in relation to your pedagogical understanding and student learning. Thoughts on the teaching method at Aalborg University (which is largely based on group-organised project work and problem-based learning)

In particular, the courses 'Basic Course in University Pedagogy' and the 'University Pedagogical Programme' have influenced the planning of my teaching and supervisory roles. During these courses, I had the opportunity—under the supervision of both subject-specific and pedagogical advisors—to try out various learning techniques with students. This included adapting to the conditions imposed by Covid-19 on the teaching environment. The methods 'Applying Active and Effective Listening' were used with groups of students. As a teacher, it became clear to me that active students not only gain more from the teaching, but the learning environment also becomes more positive and thus more attractive for both the students and me as a teacher.

8. Any other information or comments.

Type your answer here...