CM2017 Project Carrier Course for Medical Engineers, part 3 6.0 credits

Projektkurs i medicinsk teknik, del 3

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

On 2020-10-09, the Head of School of CBH has decided to establish this official course syllabus to apply from the spring semester 2022 registration number C-2020-1818).

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Medical Engineering

Specific prerequisites

English 6.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After the course students will be able to:

•plan and with adequate methods undertake given tasks within predetermined time frames

•create, analyse and critically evaluate different technical solutions to a given problem,

•identify and fill in any gap in their knowledge in order to carry on an assigned project

•in English, in both speech and writing, clearly report and discuss their results and the scientific grounds and arguments on which they are based

•within the frame of the assigned project, identify their role as scholars and engineers in the society

•within the frame of the specific project, identify relevant aspects of sustainable development

•within the frame of the assigned project, assess and show awareness of ethical aspects on research and development work with respect to methods and results of the project.

Course contents

The course main goal is to train medical engineering students in making sound quantitative or qualitative analysis in their field of study. This project course serves on one hand the scope of giving our students the possibility of applying the tools they are learning in the courses in Theory and Methodology of Science, and Statistics for Medical Engineers, Signal Processing and Analysis for Medical Engineers and Simulations Methods in Medical Engineering to problems that are relevant to their field of study and to train their ability to both plan, document and communicate the results of their projects. Further, the course aims at training our students in considering both sustainability and ethical aspects when exercising their profession.

Examination

- PRO1 - Homework, 6.0 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.