CM1003 Test for Medical Engineering 3.0 credits

Medicinteknisk provning

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 2019-10-15 the Head oc School of CBH has decided to establish this official course syllabus to apply from autumn 2019 (registration number C-2019-2006).

Grading scale

P, F

Education cycle

First cycle

Main field of study

Medical Engineering

Specific prerequisites

Basic knowledge in Physiology corresponding to completed course HL1001 or completed module TEN1 in the course HL1201. Basic knowledge of Electrical Circuits equivalent to completed course HE1200 or HE1027.

Language of instruction

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

Intended learning outcomes

After passing the course the student should be able to:

· Explain the content of the Medical Devices Directive

· Describe the procedure for measurement within medical engineering and indicate sources of uncertainty in suc

· Describe how risk management of new medical technology products is implemented

· Perform an electrical safety test on a medical devi

· Explain basic requirements for electromagnetic compatibility for medical devices

Course contents

Medical Devices Directive

Safety

Medical measurement technology and measurement uncertainty

Risk management

Electrical Safety

Electromagnetic compatibility

Examination

- VFU1 - Workplace training, 3.0 credits, grading scale: P, 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.