Safety in Hospitals

Single subject course

3 credits

Medicinteknisk säkerhet

ETE034

Valid from: 2017 Spring semester

Determined by
Board of Studies for Chemistry, Biology and Biotechnology

Determining date
2016-10-27
Main field of study

Biomedical Engineering

Course level

First cycle

Advancement level

G1X

Intended learning outcomes

The course should facilitate knowledge of physiological effects of electric current and exposure to gas and ionizing radiation, as well as law and regulation on use of biomedical equipment. Quality control and patient safety, especially when using information technology systems.

Course content

Technical methods to increase safety when working with biomedical equipment. Components for insulation. Measure in the distribution network. Grounding, vagabond currents, quality and reliability of the power supply. Analysis of safety promoting measures regarding power, gas and ionizing radiation. Medical informatics and safety in health care.

Teaching and working methods

Teaching comprises lectures, seminars and laborations. Intensive course.

Examination
LAB2  Laborations  U,G  1.5 credits
UPG1  Open book, home exam  U,G  1.5 credits

Grades are given as ‘Fail’ or ‘Pass’.

Grades
F, P

Subject area
Other Subjects within Technology

Disciplinary domain
Medicine

Department
Department of Biomedical Engineering (IMT)

Director of Studies
Marcus Larsson

Examiner
Linda Rattfält

Course website and other links
https://www.imt.liu.se/edu/singlesubjectcourses/mts.html

Education components
Not specified  24 h
Recommended self-study hours

56 h