Safety in Hospitals

Single subject course

3 credits

Medicinteknisk säkerhet

ETE034

Valid from:

Determined by
Board of Studies for Chemistry, Biology and Biotechnology

Date determined
Main field of study

Biomedical Engineering

Course level

First cycle

Advancement level

G1X

Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

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**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>U, G</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LAB2</td>
<td>Laboratory Work</td>
<td>U, G</td>
<td>1.5</td>
</tr>
<tr>
<td>UPG1</td>
<td>Open book, home exam</td>
<td>U, G</td>
<td>1.5</td>
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Grades are given as ‘Fail’ or ‘Pass’.

**Grades**

Two grade scale, older version, U, G

**Department**

Institutionen för medicinsk teknik

**Director of Studies or equivalent**

Marcus Larsson

**Examiner**

Linda Rattfält

**Course website and other links**

https://insidan.imt.liu.se/edu/ete034/

**Education components**

Preliminary scheduled hours: 32 h
Recommended self-study hours: 48 h

**Course literature**

Compendiums
Compendium IMT.

Other

*Aktuella lagar och förordningar.*