Perspectives on Biomedical Engineering

Programme course

2 credits
Medicintekniska utblickar
TBMT32
Valid from: 2019 Spring semester

Determined by
Board of Studies for Electrical Engineering, Physics and Mathematics

Date determined
2018-08-31
Main field of study

Biomedical Engineering

Course level

First cycle

Advancement level

GIX

Course offered for

- Master of Science in Biomedical Engineering
- Master of Science in Applied Physics and Electrical Engineering - International
- Master of Science in Applied Physics and Electrical Engineering
- Engineering Electronics, B Sc in Engineering
- Computer Science and Engineering, M Sc in Engineering
- Information Technology, M Sc in Engineering

Specific information

The course is not available for exchange students

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 aim of the course is to convey a contemporary view of research and development in biomedical engineering and related areas. The course also provides training in written communication. After passing the course the student should be able to:

- describe the biomedical engineering research front line
- portray engineering problems in health care
• discuss, in writing, biomedical engineer research and development

Course content

The course content is defined by the lectures and the study visit

Teaching and working methods

The course includes eight lectures of two hours each given by researchers at LiU or invited speakers from industry and health care. In addition, the course contains a study visit at a biomedical engineering company. The student should also write a short essay based on examples of biomedical engineering in media. The essay can be written in Swedish or English.

The course is scheduled over the entire spring semester.

Examination

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<tr>
<th>Code</th>
<th>Description</th>
<th>Type</th>
<th>Credits</th>
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<tbody>
<tr>
<td>UPG2</td>
<td>Essay</td>
<td>U,G</td>
<td>1</td>
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<tr>
<td>ANN1</td>
<td>Active participation during at least six lectures and the study visit</td>
<td>U,G</td>
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Active participation means that participants should be able to summarize the content. Essays are written individually. Grades are given as 'Fail' or 'Pass'.

Grades

F, P

Subject area

Other Subjects within Technology

Disciplinary domain

Technology

Department
Department of Biomedical Engineering (IMT)

Director of Studies or equivalent

Marcus Larsson

Examiner

Håkan Örman

Education components

Preliminary scheduled hours: 18 h
Recommended self-study hours: 35 h