The Master's Degree Programme in Biomedical Engineering (Medicine and Technology)

This document contains, supplemented with the University of Copenhagen course catalog (http://kurser.ku.dk/), descriptions of the courses and exams of the Master's Degree Programme of Medicine and Technology conducted at the Faculty of Health and Medical Sciences, University of Copenhagen.

The present wording was approved by the Dean on 1 April 2012 and comes into force on 1 September 2012. Recent amendments to this document were made in March 2015, March 2017, March 2018, March 2019.

Further information about the Master's Degree Programme in Biomedical Engineering (Medicine and Technology) can be found on http://www.dtu.dk/english/education/msc/programmes/biomedical-engineering

Course overview

| 1st year | 1st semester | Pathophysiology (Mandatory course) |
| 2nd semester | Tissue and Movement Biomechanics (Elective course) |
| Radioactive Isotopes and Ionizing Radiation (Elective course) |
| 2nd year | 3rd semester | Medical use of Radiation (Elective course) |
| | Exam in Medical use of Radiation |
| | Advanced Physiological Modelling (elective Course) |
| 4th semester | Master's Thesis 30 ECTS |
| | Master's Thesis 32.5 ECTS |
| | Master's Thesis 35 ECTS |
Course list

First semester

Course title: Pathophysiology
STADS code: SMTK12011U
ECTS: 0

Name of exam: Pathophysiology
STADS code: SMTK12011E
ECTS: 10

Second semester

Course title: Tissue and Movement Biomechanics
STADS code: SMTK14001U
ECTS: 0

Name of exam: Tissue and Movement Biomechanics
STADS code: SMTK14001E
ECTS: 10

Course title: Radioactive Isotopes and Ionizing Radiation
STADS code: NFYK14039U
ECTS: 0 ECTS

Name of exam: Radioactive Isotopes and Ionizing Radiation
STADS code: NFYK14039E
ECTS: 7.5 ECTS

Third semester

Course title: Medical Use of Radiation
STADS code: SMTK17001U
ECTS: 5

Name of exam: Medical Use of Radiation
STADS code: SMTK17031E
ECTS: 5

Course title: Advanced Physiological Modelling
STADS code: SMTK12022U
ECTS: 0

Name of exam: Advanced Physiological Modelling
STADS-code: SMTK12022E
ECTS: 10
Fourth semester

Name of exam: Master's Thesis
STADS code: SMTK12041E
ECTS: 30

Name of exam: Master's Thesis
STADS code: SMTK15001E
ECTS: 32.5

Name of exam: Master's Thesis
STADS code: SMTK12042E
ECTS: 35

§ 9 Group exams
The MSc Programme conducted at the Faculty of Health and Medical Sciences, University of Copenhagen offers no group exams.

§ 10 Instruction and exam languages
The MSc Programme is conducted in English.

§ 12 Master’s thesis
The Master thesis is the final element of the programme. The objective of the Master's thesis is to give students the opportunity to apply their acquired knowledge independently a larger project that concludes in a written report. Students must file their thesis registration via an electronic application form. The Head of Studies must ensure and approve that the subject of the Master's thesis is within the field of Biomedical Engineering before the thesis work can be commenced.

12.2. The thesis is written individually. However, two students may report and submit a project on a shared subject and in this context share any general descriptive sections, e.g. the introduction.

12.3 The thesis must be completed in accordance with the approved thesis contract.
12.4 Assessment will mainly be based on the academic contents. The student's ability to express her or himself is also assessed, but weighs less, while correct spelling is only of limited importance. The report and oral exam are assessed together as one unit.
12.4 The Master thesis must be written in English and it must include an abstract. As an exception the supervisor of the thesis can assess that the thesis may be written in Danish. This decision can only be made due to professional, academic reasons. The director of studies for the degree program must accept this exemption.

12.5 The Master's thesis can comprise 30-, 32.5- or 35 ECTS.

§ 13 Exemptions from these provisions
In exceptional circumstances, the Study Board may grant exemptions from any curriculum provisions within the sole remit of the Study Board.

§ 14 Date of commencement
This document comes into force on 1 September 2019.