

April 2023

## Regulations for the Master's Degree Programme in Biomedical Engineering

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

Further information about the Master's Degree Programme in Biomedical Engineering is available through the Technical University of Denmark (DTU) webpage in this link: <https://studieinformation.dtu.dk/english/Master-of-Science-in-Engineering/Biomedical-Engineering/Programme-specification>

### Course and exam overview:

The MSc in Biomedical Engineering comprises the following courses and exams offered by the Faculty of Health and Medical Sciences at The University of Copenhagen:

#### 1<sup>st</sup> and 2<sup>nd</sup> semester:

Course title and code	Course certificate (exam 1) and code	ECTS	Exam (2) and code	ECTS
<u>Pathophysiology</u> (Mandatory course) SMTK12011U			Exam: <u>Pathophysiology</u> SMTK12011E	10
<u>Biomechanics and Neural Control of Human Movement</u> (Elective course) SMTK21001U			Exam: <u>Biomechanics and Neural Control of Human Movement</u> SMTK21001E	10
<u>Radioactive Isotopes and Ionizing Radiation</u> (Elective course) NFYK14039U			Exam: <u>Radioactive Isotopes and Ionizing Radiation</u> NFYK14039E	7,5

### 3<sup>rd</sup> and 4<sup>th</sup> semester:

Course title and code	Course certificate (exam 1) and code	ECTS	Exam (2) and code	ECTS
<u>Medical use of Radiation</u> (Elective course) SMTK20003U	<u>Course certificate in Medical use of Radiation</u> SMTK20003E	5	<u>Exam: Medical Use of Radiation</u> SMTK20004E	5
<u>Advanced Physiological Modelling</u> (Elective course) SMTK20001U	<u>Course certificate in Advanced Physiological Modelling</u> SMTK20001E	2,5	<u>Exam: Advanced Physiological Modelling</u> SMTK20002E	7,5
<u>Master's Thesis 30 ECTS</u>			<u>Exam: Master's Thesis</u> SMTK12041E	30
<u>Master's Thesis 32,5 ECTS</u>			<u>Exam: Master's Thesis</u> SMTK15001E	32,5
<u>Master's Thesis 35 ECTS</u>			<u>Exam: Master's Thesis</u> SMTK12042E	35

### Instruction and exam languages

The MSc programme is conducted in English

### Master's Thesis

The Master's Thesis is the final assignment of the Master's Study Programme. The objective is to give the student an opportunity to use the acquired knowledge independently in a major assignment.

The supervision process includes communication of the learning goals of the Master's Thesis. The Master's Thesis and its oral defence shall document that the student satisfies Programme objectives with regard to the use, elaboration and dissemination of specialised knowledge.

The Master's Thesis may not be initiated until the student has completed courses equivalent to 55 ECTS points of the Master's Programme.

At the assessment of a Master's Thesis, the academic contents shall carry the greatest weight. 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.

The Master Thesis must as a minimum equal 30 ECTS credit points but may be 32½ or 35 ECTS credit points

### **Exemptions from these provisions**

In exceptional circumstances, the Study Board at DTU may grant exemptions from any curriculum provisions within the sole remit of the Study Board.

### **Date of commencement**

These regulations take effect from 1. September 2023.