

# Biomedical Engineering, M Sc in Engineering

300 credits

Civilingenjör i medicinsk teknik

6CMED

Valid from: 2016 Spring semester

**Determined by**

Board of Studies for Electrical  
Engineering, Physics and Mathematics

**Date determined**

2016-01-19

## Entry requirements

### Degree in Swedish

Civilingenjör 300 hp och Teknologie master 120 hp

# Curriculum

## Semester 2 (Spring 2017)

| Course code     | Course name                            | Credits | Level | Timetable module | ECV |
|-----------------|--|---------|-------|------------------|-----|
| <b>Period 1</b> |  |         |       |                  |     |
| TATA42          | Calculus in One Variable 2             | 6       | G1F   | 1                | C   |
| TDDC74          | Programming: Abstraction and Modelling | 8*      | G1X   | 2                | C   |
| TFYA82          | Oscillations and Mechanical Waves      | 4       | G1X   | 4                | C   |
| TBMT32          | Perspectives on Biomedical Engineering | 2*      | G1N   | 3                | E   |
| TATA40          | Perspectives on Mathematics            | 1*      | G1N   | -                | V   |
| TGTU35          | Introduction to University Studies     | 2*      | G1X   | -                | V   |
| <b>Period 2</b> |  |         |       |                  |     |
| TATA43          | Calculus in Several Variables          | 8       | G1F   | 2                | C   |
| TDDC74          | Programming: Abstraction and Modelling | 8*      | G1X   | 1                | C   |
| TFYA84          | Optics - Theory and Application        | 4       | G1X   | 4                | C   |
| TBMT32          | Perspectives on Biomedical Engineering | 2*      | G1N   | 3                | E   |
| TATA40          | Perspectives on Mathematics            | 1*      | G1N   | -                | V   |
| TGTU35          | Introduction to University Studies     | 2*      | G1X   | -                | V   |

## Semester 3 (Autumn 2017)

| Course code     | Course name                            | Credits | Level | Timetable module | ECV |
|-----------------|--|---------|-------|------------------|-----|
| <b>Period 1</b> |  |         |       |                  |     |
| TATA44          | Vector Analysis                        | 4       | G1F   | 1                | C   |
| TFYA76          | Mechanics                              | 6       | G1X   | 3                | C   |
| TSTE05          | Electronics and Measurement Technology | 8*      | G1F   | 2                | C   |
| <b>Period 2</b> |  |         |       |                  |     |
| TBME03          | Biochemistry and Cell Biology          | 6       | G2F   | 2                | C   |
| TBMT18          | Biomedical Engineering                 | 6       | G1X   | 4                | C   |
| TSTE05          | Electronics and Measurement Technology | 8*      | G1F   | 3                | C   |

## Semester 4 (Spring 2018)

| Course code     | Course name                               | Credits | Level | Timetable module | ECV |
|-----------------|---|---------|-------|------------------|-----|
| <b>Period 1</b> |   |         |       |                  |     |
| TFYA62          | Introduction to Biosensor Technology      | 6       | G2X   | 4                | C   |
| TFYA63          | Materials for Biomedical Engineering      | 8*      | G2X   | 1                | C   |
| TFYA70          | Electromagnetism - Theory and Application | 6       | G2F   | 3                | C   |
| TSRT04          | Introduction in Matlab                    | 2       | G1X   | 2                | C   |
| <b>Period 2</b> |   |         |       |                  |     |
| TAMS14          | Probability, first course                 | 4       | G1F   | 4                | C   |
| TATA57          | Transform Theory                          | 4       | G1F   | 1                | C   |
| TFYA63          | Materials for Biomedical Engineering      | 8*      | G2X   | 3                | C   |
| TPTE06          | Industrial Placement                      | 6       | G1X   | -                | E   |

## Semester 5 (Autumn 2018)

| Course code     | Course name                     | Credits | Level | Timetable module | ECV |
|-----------------|---------------------------------|---------|-------|------------------|-----|
| <b>Period 1</b> |                                 |         |       |                  |     |
| TAMS24          | Statistics, First Course        | 4       | G2F   | 4                | C   |
| TDDC76          | Programming and Data Structures | 8*      | G2X   | 2                | C   |
| TSBB31          | Medical Images                  | 6       | G2F   | 1                | C   |
| <b>Period 2</b> |                                 |         |       |                  |     |
| TDDC76          | Programming and Data Structures | 8*      | G2X   | 2                | C   |
| TFYA67          | Modern Physics                  | 6       | G2F   | 1                | C   |
| TSDT18          | Signals and Systems             | 6       | G2F   | 3                | C   |

## Semester 6 (Spring 2019)

| Course code     | Course name                      | Credits | Level | Timetable module | ECV |
|-----------------|----------------------------------|---------|-------|------------------|-----|
| <b>Period 1</b> |                                  |         |       |                  |     |
| TBMT41          | Project - Biomedical Engineering | 16*     | G2X   | 3                | C   |
| TVFA02          | Medical Radiation Physics        | 8*      | G2X   | 2                | C   |
| <b>Period 2</b> |                                  |         |       |                  |     |
| TBMT41          | Project - Biomedical Engineering | 16*     | G2X   | 3                | C   |
| TSRT19          | Automatic Control                | 6       | G2X   | 1                | C   |
| TVFA02          | Medical Radiation Physics        | 8*      | G2X   | 2                | C   |

## Semester 7 (Autumn 2019)

| Course code     | Course name  | Credits | Level | Timetable module | ECV |
|-----------------|--|---------|-------|------------------|-----|
| <b>Period 1</b> |  |         |       |                  |     |
| TANA21          | Scientific Computing                                 | 6       | G1F   | 3                | E   |
| TAOP88          | Engineering Optimization                             | 6       | G2F   | 1                | E   |
| TATM38          | Mathematical Models in Biology                       | 6       | A1N   | 3                | E   |
| TBMI19          | Medical Information Systems                          | 6*      | A1N   | 2                | E   |
| TFKE59          | Fundamentals of Chemistry                            | 6       | G1X   | 2                | E   |
| TFYA88          | Additive Manufacturing: Tools, Materials and Methods | 6       | A1N   | 3                | E   |
| TFYA88          | Additive Manufacturing: Tools, Materials and Methods | 6       | A1N   | 3                | E   |
| THFR05          | Communicative French                                 | 6*      | G1X   | 4                | E   |
| THSP05          | Spanish  | 6*      | G1X   | 4                | E   |
| THTY05          | German   | 6*      | G1X   | 4                | E   |
| TSBB06          | Multidimensional Signal Analysis                     | 6*      | A1X   | 2                | E   |
| TSDT14          | Signal Theory  | 6       | A1X   | 1                | E   |
| <b>Period 2</b> |  |         |       |                  |     |
| TBMI19          | Medical Information Systems                          | 6*      | A1N   | 3                | E   |
| TBMT01          | Biomedical Signal Processing                         | 6       | A1F   | 1                | E   |
| TEAE01          | Industrial Economics, Basic Course                   | 6       | G1X   | 2                | E   |
| TFY70           | Physics of Condensed Matter part I                   | 6       | A1X   | 2                | E   |
| TFYA37          | Soft Condensed Matter Physics                        | 6       | A1X   | 1                | E   |
| TGTU49          | History of Technology                                | 6       | G1F   | 3                | E   |
| THFR05          | Communicative French                                 | 6*      | G1X   | 4                | E   |
| THSP05          | Spanish  | 6*      | G1X   | 4                | E   |
| THTY05          | German   | 6*      | G1X   | 4                | E   |
| TKMJ24          | Environmental Engineering                            | 6       | G1N   | 3                | E   |
| TMMS07          | Biomechanics   | 6       | A1X   | 4                | E   |
| TSBB06          | Multidimensional Signal Analysis                     | 6*      | A1X   | 3                | E   |
| TSBB09          | Image Sensors  | 6       | A1X   | 4                | E   |
| TSRT78          | Digital Signal Processing                            | 6       | A1X   | 2                | E   |

*Specialisation: Biomedical Engineering Materials*

| Course code     | Course name                        | Credits | Level | Timetable module | ECV |
|-----------------|------------------------------------|---------|-------|------------------|-----|
| <b>Period 1</b> |                                    |         |       |                  |     |
| TFKE59          | Fundamentals of Chemistry          | 6       | G1X   | 2                | C   |
| TAOP88          | Engineering Optimization           | 6       | G2F   | 1                | E   |
| TATM38          | Mathematical Models in Biology     | 6       | A1N   | 3                | E   |
| TDDC17          | Artificial Intelligence            | 6       | G2F   | 3                | E   |
| <b>Period 2</b> |                                    |         |       |                  |     |
| TFFY70          | Physics of Condensed Matter part I | 6       | A1X   | 2                | C   |
| TFYA37          | Soft Condensed Matter Physics      | 6       | A1X   | 1                | C   |
| TMMS07          | Biomechanics                       | 6       | A1X   | 4                | E   |

*Specialisation: Biomedical Image Analysis and Visualization*

| Course code     | Course name                      | Credits | Level | Timetable module | ECV |
|-----------------|----------------------------------|---------|-------|------------------|-----|
| <b>Period 1</b> |                                  |         |       |                  |     |
| TSBB06          | Multidimensional Signal Analysis | 6*      | A1X   | 2                | C   |
| TSDT14          | Signal Theory                    | 6       | A1X   | 1                | C   |
| TANA21          | Scientific Computing             | 6       | G1F   | 3                | E   |
| TATM38          | Mathematical Models in Biology   | 6       | A1N   | 3                | E   |
| <b>Period 2</b> |                                  |         |       |                  |     |
| TBMT01          | Biomedical Signal Processing     | 6       | A1F   | 1                | C   |
| TSBB06          | Multidimensional Signal Analysis | 6*      | A1X   | 3                | C   |
| TSBB09          | Image Sensors                    | 6       | A1X   | 4                | E   |
| TSRT78          | Digital Signal Processing        | 6       | A1X   | 2                | E   |

*Specialisation: eHealth*

| Course code     | Course name                    | Credits | Level | Timetable module | ECV |
|-----------------|--------------------------------|---------|-------|------------------|-----|
| <b>Period 1</b> |                                |         |       |                  |     |
| TBMI19          | Medical Information Systems    | 6*      | A1N   | 2                | C   |
| TSDT14          | Signal Theory                  | 6       | A1X   | 1                | C   |
| TATM38          | Mathematical Models in Biology | 6       | A1N   | 3                | E   |
| <b>Period 2</b> |                                |         |       |                  |     |
| TBMI04          | eHealth: Aims and Applications | 6       | G2F   | 2/4              | C   |
| TBMI19          | Medical Information Systems    | 6*      | A1N   | 3                | C   |
| TBMT01          | Biomedical Signal Processing   | 6       | A1F   | 1                | C   |

*Specialisation: Models in Biomedical Engineering*

| Course code     | Course name                    | Credits | Level | Timetable module | ECV |
|-----------------|--------------------------------|---------|-------|------------------|-----|
| <b>Period 1</b> |                                |         |       |                  |     |
| TBMI19          | Medical Information Systems    | 6*      | A1N   | 2                | C   |
| TSDT14          | Signal Theory                  | 6       | A1X   | 1                | C   |
| TATM38          | Mathematical Models in Biology | 6       | A1N   | 3                | E   |
| <b>Period 2</b> |                                |         |       |                  |     |
| TBMI19          | Medical Information Systems    | 6*      | A1N   | 3                | C   |
| TBMT01          | Biomedical Signal Processing   | 6       | A1F   | 1                | C   |
| TMMS07          | Biomechanics                   | 6       | A1X   | 4                | E   |

**Semester 8 (Spring 2020)**

| Course code     | Course name                               | Credits | Level | Timetable module | ECV |
|-----------------|---|---------|-------|------------------|-----|
| <b>Period 1</b> |   |         |       |                  |     |
| TAOP07          | Introduction to Optimization              | 6       | G1F   | 3                | E   |
| TATA53          | Linear Algebra, Honours Course            | 6*      | G2F   | -                | E   |
| TBMI01          | Medical Decision Support                  | 6       | A1X   | 4                | E   |
| TBMI03          | Medical Information Models and Ontologies | 6       | A1X   | 4                | E   |
| TBMI26          | Neural Networks and Learning Systems      | 6       | A1N   | 2                | E   |
| TBMT02          | Medical Imaging                           | 6       | A1F   | 3                | E   |
| TBMT09          | Physiological Pressures and Flows         | 6       | A1N   | 1                | E   |



| Course code     | Course name                                       | Credits | Level | Timetable module | ECV |
|-----------------|---|---------|-------|------------------|-----|
| TDDD38          | Advanced Programming in C++                       | 6*      | A1N   | 2                | E   |
| TEAE04          | Industrial Economics and Organisation             | 6       | G1X   | 2                | E   |
| TEIO94          | Entrepreneurship and Idea Development             | 6*      | G2X   | 4                | E   |
| TFFM40          | Analytical Methods in Materials Science           | 6*      | A1X   | 1                | E   |
| TFYA21          | Physical Metallurgy                               | 6       | A1F   | 3                | E   |
| TFYA85          | Alternative Energy Sources and their Applications | 6       | G2X   | 4                | E   |
| TGTU94          | Technology and Ethics                             | 6       | G1F   | 1                | E   |
| THEN18          | English   | 6*      | G1X   | 4                | E   |
| THFR05          | Communicative French                              | 6*      | G1X   | 4                | E   |
| THSP05          | Spanish   | 6*      | G1X   | 4                | E   |
| THTY05          | German  | 6*      | G1X   | 4                | E   |
| TKMJ15          | Environmental Management Strategies               | 6       | G1F   | 3                | E   |
| TSBB15          | Computer Vision                                   | 12*     | A1X   | 1                | E   |
| TSBK07          | Computer Graphics                                 | 6*      | A1X   | 4                | E   |
| <b>Period 2</b> |   |         |       |                  |     |
| TATA53          | Linear Algebra, Honours Course                    | 6*      | G2F   | -                | E   |
| TBME08          | Biomedical Modeling and Simulation                | 6       | A1N   | 3                | E   |
| TBMT26          | Technology in Intensive Care and Surgery          | 6       | A1N   | 1                | E   |
| TDDD38          | Advanced Programming in C++                       | 6*      | A1N   | -                | E   |
| TDDD74          | Databases for Bioinformatics                      | 6       | G2X   | 4                | E   |
| TEIO94          | Entrepreneurship and Idea Development             | 6*      | G2X   | 4                | E   |
| TFFM40          | Analytical Methods in Materials Science           | 6*      | A1X   | 1                | E   |
| TFMT19          | Chemical Sensor Systems                           | 6       | A1X   | 4                | E   |
| THEN18          | English   | 6*      | G1X   | 4                | E   |
| THFR05          | Communicative French                              | 6*      | G1X   | 4                | E   |
| THSP05          | Spanish   | 6*      | G1X   | 4                | E   |
| THTY05          | German  | 6*      | G1X   | 4                | E   |
| TSBB15          | Computer Vision                                   | 12*     | A1X   | 3                | E   |
| TSBK02          | Image and Audio Coding                            | 6       | A1X   | 4                | E   |
| TSBK07          | Computer Graphics                                 | 6*      | A1X   | 1                | E   |

*Specialisation: Biomedical Engineering Materials*

| Course code     | Course name                              | Credits | Level | Timetable module | ECV |
|-----------------|--|---------|-------|------------------|-----|
| <b>Period 1</b> |  |         |       |                  |     |
| TFFM40          | Analytical Methods in Materials Science  | 6*      | A1X   | 1                | C   |
| TFYA21          | Physical Metallurgy                      | 6       | A1F   | 3                | C   |
| TBMT09          | Physiological Pressures and Flows        | 6       | A1N   | 1                | E   |
| TDDD38          | Advanced Programming in C++              | 6*      | A1N   | 2                | E   |
| TNE103          | Organic Electronics 1                    | 6       | A1X   | 4                | E   |
| <b>Period 2</b> |  |         |       |                  |     |
| TFFM40          | Analytical Methods in Materials Science  | 6*      | A1X   | 1                | C   |
| TBME08          | Biomedical Modeling and Simulation       | 6       | A1N   | 3                | E   |
| TBMT26          | Technology in Intensive Care and Surgery | 6       | A1N   | 1                | E   |
| TDDD38          | Advanced Programming in C++              | 6*      | A1N   | -                | E   |
| TFMT19          | Chemical Sensor Systems                  | 6       | A1X   | 4                | E   |

*Specialisation: Biomedical Image Analysis and Visualization*

| Course code     | Course name                          | Credits | Level | Timetable module | ECV |
|-----------------|--------------------------------------|---------|-------|------------------|-----|
| <b>Period 1</b> |                                      |         |       |                  |     |
| TBMT02          | Medical Imaging                      | 6       | A1F   | 3                | C   |
| TSBK07          | Computer Graphics                    | 6*      | A1X   | 4                | C   |
| TAOP07          | Introduction to Optimization         | 6       | G1F   | 3                | E   |
| TBMI26          | Neural Networks and Learning Systems | 6       | A1N   | 2                | E   |
| TBMT09          | Physiological Pressures and Flows    | 6       | A1N   | 1                | E   |
| TSBB15          | Computer Vision                      | 12*     | A1X   | 1                | E   |
| <b>Period 2</b> |                                      |         |       |                  |     |
| TSBK07          | Computer Graphics                    | 6*      | A1X   | 1                | C   |
| TBME08          | Biomedical Modeling and Simulation   | 6       | A1N   | 3                | E   |
| TSBB15          | Computer Vision                      | 12*     | A1X   | 3                | E   |
| TSBK02          | Image and Audio Coding               | 6       | A1X   | 4                | E   |

*Specialisation: eHealth*

| Course code     | Course name                               | Credits | Level | Timetable module | ECV |
|-----------------|---|---------|-------|------------------|-----|
| <b>Period 1</b> |   |         |       |                  |     |
| TDDD38          | Advanced Programming in C++               | 6*      | A1N   | 2                | C/E |
| TDDD97          | Web Programming                           | 6       | G2F   | 3                | C/E |
| TBMI03          | Medical Information Models and Ontologies | 6       | A1X   | 4                | E   |
| TBMI26          | Neural Networks and Learning Systems      | 6       | A1N   | 2                | E   |
| TBMT02          | Medical Imaging                           | 6       | A1F   | 3                | E   |
| TBMT09          | Physiological Pressures and Flows         | 6       | A1N   | 1                | E   |
| <b>Period 2</b> |   |         |       |                  |     |
| TEIO95          | eHealth: Innovation and Entrepreneurship  | 6       | G2F   | 2/4              | C   |
| TDDD38          | Advanced Programming in C++               | 6*      | A1N   | -                | C/E |
| TBME08          | Biomedical Modeling and Simulation        | 6       | A1N   | 3                | E   |
| TBMT26          | Technology in Intensive Care and Surgery  | 6       | A1N   | 1                | E   |

*Specialisation: Models in Biomedical Engineering*

| Course code     | Course name                               | Credits | Level | Timetable module | ECV |
|-----------------|---|---------|-------|------------------|-----|
| <b>Period 1</b> |   |         |       |                  |     |
| TBMT09          | Physiological Pressures and Flows         | 6       | A1N   | 1                | C   |
| TAOP07          | Introduction to Optimization              | 6       | G1F   | 3                | E   |
| TBMI01          | Medical Decision Support                  | 6       | A1X   | 4                | E   |
| TBMI03          | Medical Information Models and Ontologies | 6       | A1X   | 4                | E   |
| TBMI26          | Neural Networks and Learning Systems      | 6       | A1N   | 2                | E   |
| TBMT02          | Medical Imaging                           | 6       | A1F   | 3                | E   |
| <b>Period 2</b> |   |         |       |                  |     |
| TBME08          | Biomedical Modeling and Simulation        | 6       | A1N   | 3                | C   |
| TBMT26          | Technology in Intensive Care and Surgery  | 6       | A1N   | 1                | E   |
| TDDD74          | Databases for Bioinformatics              | 6       | G2X   | 4                | E   |

## Semester 9 (Autumn 2020)

| Course code     | Course name                              | Credits | Level | Timetable module | ECV |
|-----------------|--|---------|-------|------------------|-----|
| <b>Period 1</b> |  |         |       |                  |     |
| TAMS39          | Multivariate Statistical Methods         | 6       | A1N   | 4                | E   |
| TBMT14          | Biomedical Engineering - Project Course  | 12*     | A1F   | 4                | E   |
| TBMT57          | Biomedical Optics                        | 6       | A1F   | 1                | E   |
| TDDC17          | Artificial Intelligence                  | 6       | G2F   | 3                | E   |
| TFFM08          | Experimental Physics                     | 6*      | A1X   | 1                | E   |
| TFYA43          | Nanotechnology                           | 6       | G2X   | 3                | E   |
| TFYA47          | Surfaces and Interfaces                  | 6       | A1X   | 2                | E   |
| TFYA92          | Project Course in Applied Physics, CDIO  | 12*     | A1X   | 4                | E   |
| TNM067          | Scientific Visualization                 | 6       | A1X   | 3                | E   |
| TSBB08          | Digital Image Processing                 | 6       | A1X   | 4                | E   |
| TSBB11          | Images and Graphics, Project Course CDIO | 12*     | A1F   | 4                | E   |
| <b>Period 2</b> |  |         |       |                  |     |
| TBMI02          | Medical Image Analysis                   | 6       | A1N   | 1                | E   |
| TBMT14          | Biomedical Engineering - Project Course  | 12*     | A1F   | 4                | E   |
| TFFM08          | Experimental Physics                     | 6*      | A1X   | 1                | E   |
| TFYA30          | Supramolecular Chemistry                 | 6       | A1N   | 2                | E   |
| TFYA92          | Project Course in Applied Physics, CDIO  | 12*     | A1X   | 4                | E   |
| TGTU04          | Leadership                               | 6       | G2X   | 2                | E   |
| TNM086          | Virtual Reality Techniques               | 6       | A1X   | 2                | E   |
| TSBB11          | Images and Graphics, Project Course CDIO | 12*     | A1F   | 4                | E   |

*Specialisation: Biomedical Engineering Materials*

| Course code     | Course name                             | Credits | Level | Timetable module | ECV |
|-----------------|---|---------|-------|------------------|-----|
| <b>Period 1</b> |   |         |       |                  |     |
| TFYA47          | Surfaces and Interfaces                 | 6       | A1X   | 2                | C   |
| TBMT14          | Biomedical Engineering - Project Course | 12*     | A1F   | 4                | C/E |
| TFYA92          | Project Course in Applied Physics, CDIO | 12*     | A1X   | 4                | C/E |
| TBMT57          | Biomedical Optics                       | 6       | A1F   | 1                | E   |
| TFYA43          | Nanotechnology                          | 6       | G2X   | 3                | E   |
| TNE104          | Organic Electronics 2                   | 6       | A1X   | 4                | E   |
| <b>Period 2</b> |   |         |       |                  |     |
| TBMT14          | Biomedical Engineering - Project Course | 12*     | A1F   | 4                | C/E |
| TFYA92          | Project Course in Applied Physics, CDIO | 12*     | A1X   | 4                | C/E |
| TFYA30          | Supramolecular Chemistry                | 6       | A1N   | 2                | E   |

*Specialisation: Biomedical Image Analysis and Visualization*

| Course code     | Course name                              | Credits | Level | Timetable module | ECV |
|-----------------|--|---------|-------|------------------|-----|
| <b>Period 1</b> |  |         |       |                  |     |
| TSBB11          | Images and Graphics, Project Course CDIO | 12*     | A1F   | 4                | C   |
| TAMS39          | Multivariate Statistical Methods         | 6       | A1N   | 4                | E   |
| TBMT19          | Medical Information Systems              | 6*      | A1N   | 2                | E   |
| TBMT57          | Biomedical Optics                        | 6       | A1F   | 1                | E   |
| TDDC17          | Artificial Intelligence                  | 6       | G2F   | 3                | E   |
| TNM067          | Scientific Visualization                 | 6       | A1X   | 3                | E   |
| TSBB08          | Digital Image Processing                 | 6       | A1X   | 4                | E   |
| <b>Period 2</b> |  |         |       |                  |     |
| TBMT02          | Medical Image Analysis                   | 6       | A1N   | 1                | C   |
| TSBB11          | Images and Graphics, Project Course CDIO | 12*     | A1F   | 4                | C   |
| TBMT19          | Medical Information Systems              | 6*      | A1N   | 3                | E   |
| TNM086          | Virtual Reality Techniques               | 6       | A1X   | 2                | E   |

*Specialisation: eHealth*

| Course code     | Course name                          | Credits | Level | Timetable module | ECV |
|-----------------|--------------------------------------|---------|-------|------------------|-----|
| <b>Period 1</b> |                                      |         |       |                  |     |
| TBMI28          | eHealth Project                      | 12*     | A1F   | 2/4              | C   |
| TBMT57          | Biomedical Optics                    | 6       | A1F   | 1                | E   |
| TDDC17          | Artificial Intelligence              | 6       | G2F   | 3                | E   |
| TDDE15          | Advanced Machine Learning            | 6       | A1F   | 1                | E   |
| <b>Period 2</b> |                                      |         |       |                  |     |
| TBMI28          | eHealth Project                      | 12*     | A1F   | -                | C   |
| TDDC73          | Interaction Programming              | 6       | G2F   | 1                | C/E |
| TBMI02          | Medical Image Analysis               | 6       | A1N   | 1                | E   |
| TDDD37          | Database Technology                  | 6       | G2F   | 1                | E   |
| TDDD49          | Programming in C# and .NET Framework | 4       | G2F   | 3                | E   |
| TDDE01          | Machine Learning                     | 6       | A1N   | 1                | E   |

*Specialisation: Models in Biomedical Engineering*

| Course code     | Course name                             | Credits | Level | Timetable module | ECV |
|-----------------|---|---------|-------|------------------|-----|
| <b>Period 1</b> |   |         |       |                  |     |
| TBMT14          | Biomedical Engineering - Project Course | 12*     | A1F   | 4                | C   |
| TBMT57          | Biomedical Optics                       | 6       | A1F   | 1                | C   |
| TAMS39          | Multivariate Statistical Methods        | 6       | A1N   | 4                | E   |
| TDDC17          | Artificial Intelligence                 | 6       | G2F   | 3                | E   |
| TSBB06          | Multidimensional Signal Analysis        | 6*      | A1X   | 2                | E   |
| <b>Period 2</b> |   |         |       |                  |     |
| TBMT14          | Biomedical Engineering - Project Course | 12*     | A1F   | 4                | C   |
| TBMI02          | Medical Image Analysis                  | 6       | A1N   | 1                | E   |
| TSBB06          | Multidimensional Signal Analysis        | 6*      | A1X   | 3                | E   |

## Semester 10 (Spring 2021)

| Course code     | Course name                      | Credits | Level | Timetable module | ECV |
|-----------------|----------------------------------|---------|-------|------------------|-----|
| <b>Period 1</b> |                                  |         |       |                  |     |
| TQXX33          | Degree project - Master's Thesis | 30*     | A1X   | -                | C   |
| <b>Period 2</b> |                                  |         |       |                  |     |
| TQXX33          | Degree project - Master's Thesis | 30*     | A1X   | -                | C   |

ECV = Elective / Compulsory / Voluntary

\*The course is divided into several semesters and/or periods