

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
Period 1					
TATA42	Calculus in One Variable 2	6	G1F	1	С
TDDC74	Programming: Abstraction and Modelling	8*	G1X	2	С
TFYA82	Oscillations and Mechanical Waves	4	G1X	4	С
TBMT32	Perspectives on Biomedical Engineering	2*	G1N	3	E
TATA40	Perspectives on Mathematics	1*	G1N	-	V
TGTU35	Introduction to University Studies	2*	G1X	-	V
Period 2					
TATA43	Calculus in Several Variables	8	G1F	2	С
TDDC74	Programming: Abstraction and Modelling	8*	G1X	1	С
TFYA84	Optics - Theory and Application	4	G1X	4	С
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
Period 1					
TATA44	Vector Analysis	4	G1F	1	С
TFYA76	Mechanics	6	G1X	3	С
TSTE05	Electronics and Measurement Technology	8*	G1F	2	С
Period 2					
TBME03	Biochemistry and Cell Biology	6	G2F	2	С
TBMT18	Biomedical Engineering	6	G1X	4	С
TSTE05	Electronics and Measurement Technology	8*	G1F	3	С



Semester 4 (Spring 2018)

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

Semester 5 (Autumn 2018)

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



Semester 6 (Spring 2019)

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

Semester 7 (Autumn 2019)



Period 1 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 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 Period 2 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
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 THFRO5 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 Period 2 TBMI19 Medical Information Systems 6* A1N 3 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E TFFY70 Physics of Condensed Matter part I 6 A1X 2 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 THFRO5 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 Period 2 TBMI19 Medical Information Systems 6* A1N 3 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E TFFY70 Physics of Condensed Matter part I 6 A1X 2 E
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THSP05Spanish6*G1X4ETHTY05German6*G1X4ETSBB06Multidimensional Signal Analysis6*A1X2ETSDT14Signal Theory6A1X1EPeriod 2TBMI19Medical Information Systems6*A1N3ETBMT01Biomedical Signal Processing6A1F1ETEAE01Industrial Economics, Basic Course6G1X2ETFFY70Physics of Condensed Matter part I6A1X2E
THTY05 German 6* G1X 4 E TSBB06 Multidimensional Signal Analysis 6* A1X 2 E TSDT14 Signal Theory 6 A1X 1 E Period 2 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 TFFY70 Physics of Condensed Matter part I 6 A1X 2 E
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TEVANZ Coff Condensed Matter Physics C A1V 1 F
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



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

Specialisation: Biomedical Image Analysis and Visualization

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



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

Specialisation: Models in Biomedical Engineering

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

Semester 8 (Spring 2020)

Course name	Credits	Level	Timetable module	ECV
Introduction to Optimization	6	G1F	3	E
Linear Algebra, Honours Course	6*	G2F	-	E
Medical Decision Support	6	A1X	4	E
Medical Information Models and Ontologies	6	A1X	4	E
Neural Networks and Learning Systems	6	A1N	2	E
Medical Imaging	6	A1F	3	E
Physiological Pressures and Flows	6	A1N	1	E
	Introduction to Optimization Linear Algebra, Honours Course Medical Decision Support Medical Information Models and Ontologies Neural Networks and Learning Systems Medical Imaging	Introduction to Optimization 6 Linear Algebra, Honours Course 6* Medical Decision Support 6 Medical Information Models and Ontologies 6 Neural Networks and Learning Systems 6 Medical Imaging 6	Introduction to Optimization 6 G1F Linear Algebra, Honours Course 6* G2F Medical Decision Support 6 A1X Medical Information Models and Ontologies 6 A1X Neural Networks and Learning Systems 6 A1N Medical Imaging 6 A1F	Course name Credits Level module Introduction to Optimization Credits Level module Introduction to Optimization 6 G1F 3 Linear Algebra, Honours Course 6* G2F - Medical Decision Support 6 A1X 4 Medical Information Models and Ontologies 6 A1X 4 Neural Networks and Learning Systems 6 A1N 2 Medical Imaging 6 A1F 3



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	Е
TEIO94	Entrepreneurship and Idea Development	6*	G2X	4	Е
TFFM40	Analytical Methods in Materials Science	6*	A1X	1	Е
TFYA21	Physical Metallurgy	6	A1F	3	Е
TFYA85	Alternative Energy Sources and their Applications	6	G2X	4	E
TGTU94	Technology and Ethics	6	G1F	1	Е
THEN18	English	6*	G1X	4	Е
THFR05	Communicative French	6*	G1X	4	Е
THSP05	Spanish	6*	G1X	4	Е
THTY05	German	6*	G1X	4	Е
TKMJ15	Environmental Management Strategies	6	G1F	3	Е
TSBB15	Computer Vision	12*	A1X	1	Е
TSBK07	Computer Graphics	6*	A1X	4	Е
Period 2					
TATA53	Linear Algebra, Honours Course	6*	G2F	-	Е
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	-	Е
TDDD74	Databases for Bioinformatics	6	G2X	4	E
TEIO94	Entrepreneurship and Idea Development	6*	G2X	4	Е
TFFM40	Analytical Methods in Materials Science	6*	A1X	1	Е
TFMT19	Chemical Sensor Systems	6	A1X	4	E
THEN18	English	6*	G1X	4	E
THFR05	Communicative French	6*	G1X	4	Е
THSP05	Spanish	6*	G1X	4	Е
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
Period 1					
TFFM40	Analytical Methods in Materials Science	6*	A1X	1	С
TFYA21	Physical Metallurgy	6	A1F	3	С
ТВМТ09	Physiological Pressures and Flows	6	A1N	1	Е
TDDD38	Advanced Programming in C++	6*	A1N	2	E
TNE103	Organic Electronics 1	6	A1X	4	Е
Period 2					
TFFM40	Analytical Methods in Materials Science	6*	A1X	1	С
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	Е

Specialisation: Biomedical Image Analysis and Visualization

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMT02	Medical Imaging	6	A1F	3	С
TSBK07	Computer Graphics	6*	A1X	4	С
TAOP07	Introduction to Optimization	6	G1F	3	E
TBMI26	Neural Networks and Learning Systems	6	A1N	2	Е
ТВМТ09	Physiological Pressures and Flows	6	A1N	1	E
TSBB15	Computer Vision	12*	A1X	1	E
Period 2					
TSBK07	Computer Graphics	6*	A1X	1	С
TBME08	Biomedical Modeling and Simulation	6	A1N	3	Е
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
Period 1					
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	Е
TBMI26	Neural Networks and Learning Systems	6	A1N	2	E
TBMT02	Medical Imaging	6	A1F	3	Е
TBMT09	Physiological Pressures and Flows	6	A1N	1	E
Period 2					
TEIO95	eHealth: Innovation and Entrepreneurship	6	G2F	2/4	С
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
Period 1					
TBMT09	Physiological Pressures and Flows	6	A1N	1	С
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
Period 2					
TBME08	Biomedical Modeling and Simulation	6	A1N	3	С
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
Period 1					
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	Е
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*	A1X	4	Е
Period 2					
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	A1X	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*	A1X	4	Е



Specialisation: Biomedical Engineering Materials

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFYA47	Surfaces and Interfaces	6	A1X	2	С
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	Е
TFYA43	Nanotechnology	6	G2X	3	Е
TNE104	Organic Electronics 2	6	A1X	4	E
Period 2					
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	A1X	2	E

Specialisation: Biomedical Image Analysis and Visualization

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	С
TAMS39	Multivariate Statistical Methods	6	A1N	4	E
TBMI19	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
Period 2					
TBMI02	Medical Image Analysis	6	A1N	1	С
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	С
TBMI19	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
Period 1					
TBMI28	eHealth Project	12*	A1F	2/4	С
TBMT57	Biomedical Optics	6	A1F	1	Е
TDDC17	Artificial Intelligence	6	G2F	3	E
TDDE15	Advanced Machine Learning	6	A1F	1	Е
Period 2					
TBMI28	eHealth Project	12*	A1F	-	С
TDDC73	Interaction Programming	6	G2F	1	C/E
TBMI02	Medical Image Analysis	6	A1N	1	Е
TDDD37	Database Technology	6	G2F	1	Е
TDDD49	Programming in C# and .NET Framework	4	G2F	3	E
TDDE01	Machine Learning	6	A1N	1	Е

Specialisation: Models in Biomedical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMT14	Biomedical Engineering - Project Course	12*	A1F	4	С
TBMT57	Biomedical Optics	6	A1F	1	С
TAMS39	Multivariate Statistical Methods	6	A1N	4	E
TDDC17	Artificial Intelligence	6	G2F	3	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	2	E
Period 2					
TBMT14	Biomedical Engineering - Project Course	12*	A1F	4	С
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
Period 1					
TQXX33	Degree project - Master's Thesis	30*	A1X	-	С
Period 2					
TQXX33	Degree project - Master's Thesis	30*	A1X	-	С



ECV = Elective / Compulsory /Voluntary
*The course is divided into several semesters and/or periods