

Biomedical Engineering, M Sc in Engineering

300 credits

Civilingenjör i medicinsk teknik

6CMED

Valid from: 2015 Spring semester

Determined by

Board of Studies for Electrical Engineering, Physics and Mathematics

Date determined

2 (13)

Entry requirements

Degree in Swedish Civilingenjör 300 hp och Teknologie master 120 hp



3 (13)

Semester 4 (Spring 2017)

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	G1X	4	С
TATA57	Transform Theory	4	G1X	1	С
TFYA63	Materials for Biomedical Engineering	8*	G2X	3	С
TPTE06	Industrial Placement	6	G1X	-	E

$Specialisation: Additional\ courses$

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
Period 2					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E

Semester 5 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAMS24	Statistics, First Course	4	G2X	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 2018)

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 2018)



Period 1 TANA21 Scientific Computing 6 G1X 3 E TAOP88 Engineering Optimization 6 G2X 1 E TATM38 Mathematical Models in Biology 6 A1X 3 E TBMI19 Medical Information Systems 6* A1X 2 E TFKE59 Fundamentals of Chemistry 6 G1X 2 E TFYA88 Additive Manufacturing: Tools, Materials and Methods 6 G1X 2 E THFR05 Communicative French 6* G1X 4 E THSP05 Spanish 6* G1X 4 E THY05 German 6* G1X 4 E TSB806 Multidimensional Signal Analysis 6* A1X 2 E TSDT14 Signal Theory 6 A1X 1 E Period 2 TBMI19 Medical Information Systems 6* A1X 1 E TBM101	Course code	Course name	Credits	Level	Timetable module	ECV
TAOP88 Engineering Optimization 6 G2X 1 E TATM38 Mathematical Models in Biology 6 A1X 3 E TBMI19 Medical Information Systems 6* A1X 2 E TFKE59 Fundamentals of Chemistry 6 G1X 2 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 THSP05 Spanish 6* G1X 4 E TSB806 Multidimensional Signal Analysis 6* A1X 2 E TSDT14 Signal Theory 6 A1X 1 E TBMI19 Medical Information Systems 6* A1X 1 E TEAEO1 Industrial Economics, Basic Course 6 G1X 2 E TFYA37 Soft Condensed Matter Part I 6 A1X 2 E TFYA37 Soft Condensed Matter Physics 6 A1X 1 E TGTU49 History of Technology 6 G1X 4 E THSP05 Spanish 6* G1X 4 E THSP05 Communicative French 6* G1X 4 E THYA37 Soft Condensed Matter Physics 6 A1X 1 E TGTU49 History of Technology 6 G1X 3 E THFRO5 Communicative French 6* G1X 4 E THSP05 Spanish 6* G1X 4 E THSP06 Multidimensional Signal Analysis 6* A1X 4 E	Period 1					
TATM38 Mathematical Models in Biology 6 A1X 3 E TBMI19 Medical Information Systems 6* A1X 2 E TFKE59 Fundamentals of Chemistry 6 G1X 2 E TFYA88 Additive Manufacturing: Tools, Materials and Methods 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 TBM119 Medical Information Systems 6* A1X 1 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E TFY70 Physics of Condensed Matter Physics 6 A1X 1 E TFY73 Soft Condensed Matter Physics 6 G1X 3 E TGTU49 History of Technology 6 G1X 4 E THSP05 Spanish 6* G1X 4 E THSP05 Communicative French 6* G1X 4 E THY05 German 6* G1X 4 E THY070 German 6* G1X 4 E THY070 Communicative French 6* G1X 4 E THSP05 Spanish 6* G1X 4 E THSP05 Spanish 6* G1X 4 E THSP05 Spanish 6* G1X 4 E THY070 German 6* G1X 4 E THSP05 Spanish 6* G1X 4 E THY070 Biomechanics 6 A1X 4 E THSP05 Spanish 6* G1X 4 E THY070 Biomechanics 6 A1X 4 E THSP05 Biomechanics 6 A1X 4 E TSBB06 Multidimensional Signal Analysis 6* A1X 4 E TSBB06 Multidimensional Signal Analysis 6* A1X 4 E	TANA21	Scientific Computing	6	G1X	3	E
TBMI19 Medical Information Systems 6* A1X 2 E TFKE59 Fundamentals of Chemistry 6 G1X 2 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 Period 2 TBMI19 Medical Information Systems 6* A1X 3 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 G1X 2 E THFR05 Communicative French 6* G1X 4 E THSP05 Spanish 6* G1X 4 E THSP05 Biomechanics 6 A1X 4 E TKMJ24 Environmental Engineering 6 G1N 3 E TKMJ24 Environmental Engineering 6 G1N 3 E TSBB06 Multidimensional Signal Analysis 6* A1X 4 E TSBB06 Multidimensional Signal Analysis 6* A1X 4 E	TAOP88	Engineering Optimization	6	G2X	1	E
TFKE59 Fundamentals of Chemistry 6 G1X 2 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 Period 2 TBMI19 Medical Information Systems 6* A1X 3 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 G1X 2 E THFR05 Communicative French 6* G1X 4 E THSP05 Spanish 6* G1X 4 E THSP05 Spanish 6* G1X 4 E THY05 German 6* G1X 4 E THY905 German 6* G1X 4 E THY905 Spanish 6* G1X 4 E THY905 Spanish 6* G1X 4 E THY905 German 6* G1X 4 E THY905 Biomechanics 6 A1X 4 E TSBB06 Multidimensional Signal Analysis 6* A1X 3 E TSBB06 Multidimensional Signal Analysis 6* A1X 4 E TSBB06 Multidimensional Signal Analysis 6* A1X 3 E	TATM38	Mathematical Models in Biology	6	A1X	3	E
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TBMT01 Biomedical Signal Processing 6 A1X 1 E TEAE01 Industrial Economics, Basic Course 6 G1X 2 E TFFY70 Physics of Condensed Matter part I 6 A1X 2 E TFYA37 Soft Condensed Matter Physics 6 A1X 1 E TGTU49 History of Technology 6 G1X 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	Period 2					
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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	TFYA37	Soft Condensed Matter Physics	6	A1X	1	E
THSP05Spanish6*G1X4ETHTY05German6*G1X4ETKMJ24Environmental Engineering6G1N3ETMMS07Biomechanics6A1X4ETSBB06Multidimensional Signal Analysis6*A1X3ETSBB09Image Sensors6A1X4E	TGTU49	History of Technology	6	G1X	3	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	THFR05	Communicative French	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	THSP05	Spanish	6*	G1X	4	E
TMMS07Biomechanics6A1X4ETSBB06Multidimensional Signal Analysis6*A1X3ETSBB09Image Sensors6A1X4E	THTY05	German	6*	G1X	4	E
TSBB06 Multidimensional Signal Analysis 6* A1X 3 E TSBB09 Image Sensors 6 A1X 4 E	TKMJ24	Environmental Engineering	6	G1N	3	E
TSBB09 Image Sensors 6 A1X 4 E	TMMS07	Biomechanics	6	A1X	4	E
	TSBB06	Multidimensional Signal Analysis	6*	A1X	3	E
TSRT78 Digital Signal Processing 6 A1X 2 E	TSBB09	Image Sensors	6	A1X	4	E
	TSRT78	Digital Signal Processing	6	A1X	2	E



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Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFKE59	Fundamentals of Chemistry	6	G1X	2	С
TAOP88	Engineering Optimization	6	G2X	1	E
TATM38	Mathematical Models in Biology	6	A1X	3	E
TDDC17	Artificial Intelligence	6	G2X	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 Imaging 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	G1X	3	E
TATM38	Mathematical Models in Biology	6	A1X	3	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
Period 2					
TBMT01	Biomedical Signal Processing	6	A1X	1	С
TSBB06	Multidimensional Signal Analysis	6*	A1X	3	С
TDDD38	Advanced Programming in C++	6*	A1X	-	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					
TBMI19	Medical Information Systems	6*	A1X	2	С
TSDT14	Signal Theory	6	A1X	1	С
TATM38	Mathematical Models in Biology	6	A1X	3	E
TDDD38	Advanced Programming in C++	6*	A1X	2	E
Period 2					
TBMI19	Medical Information Systems	6*	A1X	3	С
TBMT01	Biomedical Signal Processing	6	A1X	1	С
TDDD38	Advanced Programming in C++	6*	A1X	-	Е
TMMS07	Biomechanics	6	A1X	4	E

Semester 8 (Spring 2019)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAOP07	Introduction to Optimization	6	G1X	3	E
TATA53	Linear Algebra, Honours Course	6*	G2X	-	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	A1X	2	E
TBMT02	Medical Imaging	6	A1F	3	E
TBMT09	Physiological Pressures and Flows	6	A1X	1	E
TDDD38	Advanced Programming in C++	6*	A1X	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
TGTU01	Technology and Ethics	6	G1X	1	Е
THEN18	English	6*	G1X	4	Е
THFR05	Communicative French	6*	G1X	4	E



Course code	Course name	Credits	Level	Timetable module	ECV
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
Period 2					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TBME08	Biomedical Modeling and Simulation	6	A1X	3	E
TBMT26	Technology in Intensive Care and Surgery	6	A1X	1	E
TDDD38	Advanced Programming in C++	6*	A1X	-	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



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
TBMT09	Physiological Pressures and Flows	6	A1X	1	E
TDDD38	Advanced Programming in C++	6*	A1X	2	Е
TNE103	Organic Electronics 1	6	A1X	4	E
Period 2					
TFFM40	Analytical Methods in Materials Science	6*	A1X	1	С
TBME08	Biomedical Modeling and Simulation	6	A1X	3	Е
TBMT26	Technology in Intensive Care and Surgery	6	A1X	1	E
TDDD38	Advanced Programming in C++	6*	A1X	-	E
TFMT19	Chemical Sensor Systems	6	A1X	4	E

Specialisation: Biomedical Imaging 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	G1X	3	Е
TBMI26	Neural Networks and Learning Systems	6	A1X	2	Е
TBMT09	Physiological Pressures and Flows	6	A1X	1	Е
TSBB15	Computer Vision	12*	A1X	1	Е
Period 2					
TSBK07	Computer Graphics	6*	A1X	1	С
TBME08	Biomedical Modeling and Simulation	6	A1X	3	Е
TSBB15	Computer Vision	12*	A1X	3	E
TSBK02	Image and Audio Coding	6	A1X	4	E



Specialisation: Models in Biomedical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
ТВМТ09	Physiological Pressures and Flows	6	A1X	1	С
TAOP07	Introduction to Optimization	6	G1X	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	A1X	2	E
TBMT02	Medical Imaging	6	A1F	3	Е
Period 2					
TBME08	Biomedical Modeling and Simulation	6	A1X	3	С
TBMT26	Technology in Intensive Care and Surgery	6	A1X	1	E
TDDD74	Databases for Bioinformatics	6	G2X	4	E

Semester 9 (Autumn 2019)



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAMS39	Multivariate Statistical Methods	6	A1X	4	E
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	E
TBMT36	Biomedical Optics	6	A1X	1	E
TDDC17	Artificial Intelligence	6	G2X	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*	A1X	4	E
Period 2					
TBMI02	Medical Image Analysis	6	A1X	1	E
TBMT14	Biomedical Engineering - Project Course	12*	A1X	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	E



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*	A1X	4	C/E
TFYA92	Project Course in Applied Physics, CDIO	12*	A1X	4	C/E
ТВМТ36	Biomedical Optics	6	A1X	1	E
TFYA43	Nanotechnology	6	G2X	3	E
TNE104	Organic Electronics 2	6	A1X	4	E
Period 2					
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	C/E
TFYA92	Project Course in Applied Physics, CDIO	12*	A1X	4	C/E
TFYA30	Supramolecular Chemistry	6	A1X	2	E

Specialisation: Biomedical Imaging 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	A1X	4	E
TBMI19	Medical Information Systems	6*	A1X	2	E
TBMT36	Biomedical Optics	6	A1X	1	E
TDDC17	Artificial Intelligence	6	G2X	3	E
TNM067	Scientific Visualization	6	A1X	3	E
TSBB08	Digital Image Processing	6	A1X	4	E
Period 2					
TBMI02	Medical Image Analysis	6	A1X	1	С
TSBB11	Images and Graphics, Project Course CDIO	12*	A1X	4	С
TBMI19	Medical Information Systems	6*	A1X	3	E
TNM086	Virtual Reality Techniques	6	A1X	2	E



Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	С
TBMT36	Biomedical Optics	6	A1X	1	С
TAMS39	Multivariate Statistical Methods	6	A1X	4	E
TDDC17	Artificial Intelligence	6	G2X	3	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	2	E
Period 2					
TBMT14	Biomedical Engineering - Project Course	12*	A1X	4	С
TBMI02	Medical Image Analysis	6	A1X	1	E
TSBB06	Multidimensional Signal Analysis	6*	A1X	3	E

Semester 10 (Spring 2020)

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