

Biomedical Engineering

Course Code	Credits	Cycle	Programme	Language		Course Name	Footnote	Links	16/17	16/17	16/17	16/17
				S.Ex. stud.					sp1	sp2	sp3	sp4
BMEN05	7.5	A	E, E, M, MD, N, Pi	X	E	Biomechanics	X	KS KE U W T	1			
BMEN05			BME						1			
EEMN21	7.5	A	BME, E, E, N	X	E1	Introduction to Microfluidics and Lab-on-a-chip Systems	X	KS KE U W T	1			
EEMF15	7.5	G2	BME	-	S	Sensors and Measurements		KS KE U W T	1			
EEM031	7.5	G2	BME, D, E, E, IEA	-	S	Transducer Technology	X	KS KE U W T	1			
EITA01	12	G1	BME	-	S	Introduction to Biomedical Engineering		KS KE U W T	1	2		
EEMF05	7.5	G2	BME, D, E, E, N, Pi	X	E1	Biomedical Measurements	X	KS KE U W T		2		

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									sp1	sp2	sp3	sp4
EEMF10	5	G2	BME	X	E1	Clinical Chemical Diagnostics		KS KE U T		2		
EEMN10	7.5	A	BME , D , E , E , N	X	S	Computerised Measurement Systems	X	KS KE U W T		2		
EEMN05	7.5	A	BME , D , E , F	X	E1	EMC, Noise and Noise Reduction		KS KE U W T		2		
EITN60	7.5	A	BME , C , D , E , E , MWIR , Pi	X	E	Optimum and Adaptive Signal Processing		KS KE U W T		2		
BMEN10	7.5	A	BME , E , M , MD , N , Pi	X	E	Tissue Biomechanics		KS KE U W T		2		
EEMA01	9	G1	BME	-	S	Biomedical Design		KS KE U W T		2	3	
ETIF20	5	G2	BME	-	S	E-health		KS KE U T			3	

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links			
								16/17 sp1	16/17 sp2	16/17 sp3	16/17 sp4
ESSF10	5	G2	D, E	-	S	Electrical Measurements	KS KE U W T			3	
EEM045	7.5	G2	N	-	E1	Sensors	KS KE U W T			3	
MVKF20	5	G2	BME	-	S	Transport Phenomena in the Human Body	KS KE U W T			3	
EEMN15	7.5	A	BME, D, E, F, N	X	E1	Ultrasound Physics and Technology	X KS KE U W T			3	
GEMA55	6	G1	A, B, BI, C, D, E, F, I, K, L, M, MD, N, Pi, RH, Y, W	-	S	Medicine for Engineers	X KS KE U W T	Course on hold			
BMEF01	5	G2	E	-	S	Project in Electronics	KS KE U W T			3	4
BMEN01	7.5	A	BME, C, D, E, F, Pi	X	E1	Biomedical Signal Processing	KS KE U W T				4
EEM007	4.5	G2	F	-	S	Electrical Measurements	KS KE U W T				4

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links					
								16/17 sp1	16/17 sp2	16/17 sp3	16/17 sp4		
EEMN26	7.5	A	BME, E, N	X	E1	Lab-on-a-chip in Biomedical Applications		KS	KE	U	W	T	4
EEMN01	7.5	A	BME, D, E, F, MSOC, N	X	E1	Micro Sensors	X	KS	KE	U	W	T	4
ETIF10	7.5	G2	BME, C, D, E, F, Pi	X	E1	Signal Processing - Design and Implementation		KS	KE	U	W	T	4

[BMEN05](#) (E, M, MD, Pi) Biomechanics: *Replaces the course [FHLF05](#).*

[EEMN21](#) (E, F, N) Introduction to Microfluidics and Lab-on-a-chip Systems: *Replaces [EEM055](#) Microfluidics*

[EEM031](#) (E) Transducer Technology: *Re-examination set by agreement.*

[EEMF05](#) (D, E, F, N) Biomedical Measurements: *Reexam date to be set by agreement.*

[EEMF05](#) (Pi) Biomedical Measurements: *Retake date to be set by agreement.*

[EEMN10](#) (E) Computerised Measurement Systems: *Re-examination set by agreement.*

[EEMN15](#) (D, E, F) Ultrasound Physics and Technology: *Re-examination set by agreement.*

[GEMA55](#) (A, B, BI, E, I, K, RH, W) Medicine for Engineers: *The course is offered every other academic year and will be given in 2015/16, 2017/18 LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA55](#) (C, D, E, M, MD, N, Pi) Medicine for Engineers: *The course is offered every other academic year and will next be offered in 2017/18. LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA55](#) (L, V) Medicine for Engineers: *The course is offered every other academic year and will be given in 2017/18, 2020/21 LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[EEMN01](#) (D, E, MSOC, N) Micro Sensors: *Re-examination set by agreement*

[EEMN01](#) (E) Micro Sensors: *Re-examination set by agreement.*

Engineering Geology

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links	16/17	16/17	16/17	16/17
									sp1	sp2	sp3	sp4
VTGA01	4	G1	V	-	S	Engineering Geology		KS KE U W T	1			
VTGN01	7.5	A	V, W	X	E	Field Investigation Methodology		KS KE U W T	1			
VTGN10	7.5	A	MWLU, V, W	X	E	Groundwater Engineering		KS KE U W T		2		
VTGN05	7.5	A	MWLU, V, W	X	E	Groundwater Modelling and Contaminant Transport		KS KE U W T			3	
VTGA05	5	G1	W	-	S	Engineering Geology		KS KE U W T				4
VTGF05	6	G2	BI	-	S	Geotechnology	X	KS KE U T	Course on hold			
VTGF01	7.5	G2	V	-	S	Rock Mechanics and Construction		KS KE U W T				4

[VTGF05](#) ([BI](#)) Geotechnology: *The course is not offered in 2016/2017.*

Industrial Electrical Engineering and Automation

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links	16/17	16/17	16/17	16/17
									sp1	sp2	sp3	sp4
EIEN15	7.5	A	E, E, M	X	E1	Electric Power Systems		KS KE U W T	1			
MIE100	7.5	A	E, M, MD	X	E1	Hybrid Vehicle Drive Systems		KS KE U W T	1			
EIEF01	10	G2	BME, D, E, E, M, MD, Pi	X	E1	Applied Mechatronics		KS KE U W T	1	2		
EIEF20	7.5	G2	IEA	-	S	Automation, Advanced Course		KS KE U W T	1	2		
MIE012	9	G2	MD	-	S	Electrical Engineering, Basic Course		KS KE U W T	1	2		
MIE012			M						1	2		
MIE041	9	G2	E, M	X	E1	Measurement Systems for Control	X	KS KE U W T	1	2		

Course Code	Credits	Cycle	Programme	Language		Course Name	Footnote	Links			
				S.Ex. stud.				16/17 sp1	16/17 sp2	16/17 sp3	16/17 sp4
EIEE25	11	G2	IEA	-	S	Project in Automation	KS KE U W T	1	2		
EIE061	7.5	A	D, E, M	X	E1	Project in Industrial Electrical Engineering and Automation	KS KE U W T	1	2		
EIE061			D, E, M							3	4
EIEF10	7.5	G2	IEA	-	S	Power Electronics	KS KE U W T		2		
EIEF05	7.5	G2	IEA	-	S	Power Engineering	KS KE U W T		2		
EIEF10	7.5	A	E, F, M, W	X	E1	Wind Power Systems	KS KE U W T		2		
MIE080	7.5	G2	D, E, E, I, M	X	E1	Automation	KS KE U W T			3	

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links		16/17	16/17	16/17	16/17
								sp1	sp2	sp3	sp4		
ESSF15	5	G2	E , W	-	S	Electrical Engineering		KS KE U W T				3	
FRT602	7.5	G2	IDA , IEA	-	S	Automatic Control		KS KE U W T				3	4
EIEF05	7.5	G2	IEA	-	S	Automation		KS KE U W T				3	4
EIEN20	7.5	A	M	X	E1	Design of Electrical Machines	X	KS KE U W T				3	4
EIEN20			E				X		Course on hold				
EIEF10	7.5	G2	IEA	-	S	Electrical Machines and Drives		KS KE U W T				3	4
EIEN01	10	A	D , E , M , MD	X	E1	Mechatronics, Industrial Product Design		KS KE U W T				3	4
EIEN25	15	A	E , M	X	E1	Power Electronics - Devices, Converters, Control and Applications	X	KS KE U W T				3	4

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language		Course Name	Footnote	Links				
									16/17 sp1	16/17 sp2	16/17 sp3	16/17 sp4	
MIE090	7.5	A	D , E , E , I , M	X		E1	Automation for Complex Systems	KS KE U W T					4

[MIE041](#) (E) Measurement Systems for Control: *The course is offered every other academic year and will be given in 2014/15, 2016/17.*

[MIE041](#) (M) Measurement Systems for Control: *Exam date to be set by agreement. The course is offered every other academic year and will be given in 2014/15, 2016/17.*

[EIEN20](#) (E) Design of Electrical Machines: *The course is offered every other academic year and will next be offered in 2017/18.*

[EIEN20](#) (M) Design of Electrical Machines: *The course is offered every other academic year and will be given in 2015/16, 2017/18.*

[EIEN25](#) (E) Power Electronics - Devices, Converters, Control and Applications: *may not be included in a degree together with either [EIE015](#), EIE023 or EIE042*

[EIEN25](#) (M) Power Electronics - Devices, Converters, Control and Applications: *The course may not be included in a degree together with either [EIE015](#), EIE023 or EIE042*

Bachelor's Projects of the Department

The list contains the bachelor's projects which are given by the department and which programme each bachelor's project is included in.

Links

Course Code	Credits	Programme	Course Name	Links
BMEL01	15	E, F, N	Bachelor Project in Biomedical Engineering	KS KE U
EEML05	15	BME	Bachelor Project in Clinical Innovation	KS KE U
EEML01	15	E, F, N	Bachelor Project in Electrical Measurements	KS KE U
VTGL01	15	V, W	Bachelor Project in Engineering Geology	KS KE U
EIEL01	15	E, F	Bachelor Project in Industrial Electrical Engineering and Automation	KS KE U

Degree Projects of the Department

The list contains the degree projects which are given by the department and which programme each degree project is included in.

Links

Course Code	Credits	Programme	Course Name	Links
BMEM01	30	BME, E, F, N	Degree Project in Biomedical Engineering	KS KE U W
EEM820	30	BME, D, E, F, N	Degree Project in Electrical Measurements	KS KE U W
VTGM01	30	MWLU	Degree Project in Engineering Geology	KS KE U
VTG820	30	V, W	Degree Project in Engineering Geology for Engineers	KS KE U
EIE920	30	D, E, F, I, M	Degree Project in Industrial Electrical Engineering and Automation	KS KE U W
EIEL05	22.5	IDA, IEA	Degree Project in Industrial Electrical Engineering and Automation	KS KE U