

Biomedical Engineering

Course Code	Credits	Cycle	Programme	Language		Course Name	Footnote	Links	15/16	15/16	15/16	15/16
				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			
EEMN20	7.5	A	BME, E, E, N	X	E	Introduction to 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	-	S	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 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	

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								15/16 sp1	15/16 sp2	15/16 sp3	15/16 sp4			
ESSF10	5	G2	D, E	-	S	Electrical Measurements		KS	KE	U	W	T	3	
EEM045	7.5	G2	N	-	S	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	X	S	Ultrasound Physics and Technology	X	KS	KE	U	W	T	3	
GEMA55	6	G1	A, B, BI, C, D, E, E, I, K, L, M, MD, N, Pi, RH, Y, W	-	S	Medicine for Engineers	X	KS	KE	U	W	T	3	4
BMEF01	5	G2	E	-	S	Project in Electronics		KS	KE	U	W	T	3	4
BMEN01	7.5	A	BME, C, D, E, E, Pi	X	E1	Biomedical Signal Processing		KS	KE	U	W	T		4

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links					
								15/16 sp1	15/16 sp2	15/16 sp3	15/16 sp4		
EEM007	4.5	G2	E	-	S	Electrical Measurements		KS	KE	U	W	T	4
EEMN25	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 , E , 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 [FHFL05](#).*

[EEMN20](#) ([E](#), [F](#), [N](#)) Introduction to 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](#), [C](#), [D](#), [E](#), [F](#), [I](#), [K](#), [L](#), [M](#), [MD](#), [N](#), [Pi](#), [RH](#), [V](#), [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.*

[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	15/16	15/16	15/16	15/16
									sp1	sp2	sp3	sp4
VTGA01	4	G1	V	-	S	Engineering Geology		KS KE U W T	1			
VTGN01	7.5	A	W	X	E1	Field Investigation Methodology	X	KS KE U W T	1			
VTGN01			V				X		Course on hold			
VTG021	7.5	G2	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		KS KE U T				4
VTGF01	7.5	G2	V	-	S	Rock Mechanics and Construction		KS KE U W T				4

[VTGN01](#) (V, W) Field Investigation Methodology: *The course is offered every other academic year and will be given in 2016/17, 2018/19.*

Industrial Electrical Engineering and Automation

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links	15/16	15/16	15/16	15/16
									sp1	sp2	sp3	sp4
EIEN15	7.5	A	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	Course on hold			
EIEF25	11	G2	IEA	-	S	Project in Automation		KS KE U W T	1	2		

Course Code	Credits	Cycle	Programme	Language		Course Name	Footnote	Links			
				S.Ex. stud.				15/16 sp1	15/16 sp2	15/16 sp3	15/16 sp4
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
ETEF10	7.5	G2	IEA	-	S	Power Electronics	KS KE U W T		2		
ETEF05	7.5	G2	IEA	-	S	Power Engineering	KS KE U W T		2		
EIEN10	7.5	A	E, F, M, W	X	E1	Wind Power Systems	KS KE U W T		2		
MIE080	7.5	G2	D, E, F, I, M	X	E1	Automation	KS KE U W T			3	
ESSF15	5	G2	E, W	-	S	Electrical Engineering	KS KE U W T			3	

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links								
								15/16 sp1	15/16 sp2	15/16 sp3	15/16 sp4					
ERT602	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	E , M	X	E1	Design of Electrical Machines	X	KS	KE	U	W	T			3	4
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
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, 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. The list is not necessarily complete before the academic year 2016/17.

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
EEMM01	30	MSOC	Degree Project in Electrical Measurements	KS KE U
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