Applied Engineering BSc - 210 ECTS programs - emphasis on practical projects in cooperation with industry Students in their 5th-6th semesters can optionally take a part of their studies as specialized internships instead of specialized electives All courses are 6 ECTS credits unless otherwise specified

	All courses are 6 ECTS credits unless otherwise specifi		Ta 11 144 1 1 145 5 1 1 145
	Applied Civil Engineering BT	Applied Electrical Engineering RT	Applied Mechanical/Energy Engineering VT
1.önn	AT STM 1002/2004 Mathematics and Matlab (12 ECTS)	AT STM 1002/2004 Mathematics and Matlab (12 ECTS)	AT STM 1002/2004 Mathematics and Matlab (12 ECTS)
	AT EÐL 1003 Physics	AT EÐL 1003 Physics	AT EÐL 1003 Physics
	BT BUÞ 1013 Structural Mechanics I	RT STA 1003 Digital Logic Design and Microcontroller	BT BUÞ 1013 Structural Mechanics I
	T-100-HUGM Brain Storming (1 ECTS)	T-100-HUGM Brain Storming (1 ECTS)	T-100-HUGM Brain Storming (1 ECTS)
	AT TÆK 1002 Introduction to Engineering Design/CAD (5 ECTS)	AT TÆK 1002 Introduction to Engineering Design/CAD (5 ECTS)	AT TÆK 1002 Introduction to Engineering Design/CAD (5 ECTS)
2.önn	AT STÆ 2003 Mathematics II	AT STÆ 2003 Mathematics II	AT STÆ 2003 Mathematics II
	BT BUR 2003 Mechanics of Materials and Structural Analysis	RT EÐL 2003 Physics II	T-401-VELH Machine Elements
	BI EBE 1003 Construction Materials	RT RAS 1003 Electric Circuit Analysis	VT EFV 1003 Metallurgi, Metal Processes I
	AT ADF 1013 Statistics and Methodology	AT ADF 1013 Statistics and Methodology	AT ADF 1013 Statistics and Methodology
	BT HVB 1003 The Design Process**	RT HVR 1003 Robots - practical project	VT HVV 1003 Practical Project in Computer Aided Design
o ::			
3.önn	AT STÆ 3003 Mathematics III	AT STÆ 3003 Mathematics III	AT STÆ 3003 Mathematics III
	BT BUR 3003 Finite Element Method and Structural Analysis	RT EXH 1013 Electromagnetics and Semi-conductors	VT FEM 1003 Finite Element Analysis
	BI EFN 1013 Concrete - Material Properties and Maintenance	RT RAS 2003 Electric Circuit Design	VT VAR 1013 Thermodynamics I
	BT JTÆ 1003 Soil Mechanics and Engineering Geology**	T-208-FOR2 Programming in C++	VT AFL 1003 Dynamics
	AT VST 1003 Project Management**	AT VST 1003 Project Management	VT VHF 2013 Machine Element Design
4.önn	BT BUÞ 4002 Structural Analysis (4 ECTS)	RT RAT 1003 Electronics I	VT VAR 2013 Thermodynamics II
	BF BRU 1001 Fire Resistant Design (2 ECTS)	RT RAK 1003 Electircal Systems I	VT SVF 1003 Theory of Vibrations**
	BT BYG 1003 Design in Timber and Steel**	T-306-MERK Signal Processing	VT STV 1003 Fluid Mechanics/Heat Transfer
	BT REN 1003 Hydraulics	RI RLH 1003 Electric Installations Design*** or	VT RAR 1003 Electric Circuits and Power
	BT BEÐ 1003 Building Physics**	T-201-GSKI Data Structures***	VT HVV 2003 Thermo and Hydraulics Lab
	BT LAM 1013 Surveying and GIS**	RT HVR 2013 Measurement Techniques - practical project	
5.önn	BT SST 1013 Reinforced Concrete I	RT PWR 1003 Power Electronics**	VT STÝ 1003 Control Engineering
	AT INT 1006 Intership (12 ECTS, mandatory)	VT REG 1003 Feedback Control Systems	VT REG 1003 Feedback Control Systems
	BT VEG 1013 Road Design - Urban and Rural**	RT FSK 1003 Communication Systems I	VT EFV 2003 Metals and Manufact. Processes
	BT UVB 1003 Urban Developement**	Specialized electives:	VT STR 1003 Turbomachinery
		Electric Power or Electronics/Mechatronics	AT VST 1003 Project Management
		RI LYR 1003 Lighting and Regulations*	
		T-863-EIIP Energy in Industrial Processes*	
		T-411-MECH Mechatronics I*	
		T-301-REIR Algorithms*	
		AT INT 1003 Intership (elective)	
		RT HVR 3003 Practical Project in Electronics or Electric Power	
6.önn	BT FRS 1003 Construction Management**	RT IDN 1003 Industrial Controllers & Robots	VT HUN 1013 Design
0.011	BT LAG 1013 Installation Systems**	Specialized electives:	VI TEI 2013 Computer Aided Design II**
	Specialized electives:	Electric Power or Electronics/Mechatronics	Specialized electives:
	Structures or Construction or Installations	RT RVE 1003 Electrical Machines*	Energy or Mechanical Design
	BT BYG 2013 Timber and Steel Design*	RT RAK 2003 Electrical Systems II*	VT JAH 1003 Geothermal Energy*
	BT SST 2013 Reinforced Concrete II*	RI RLH 1003 Electric Installations Design*	SE 815 PPE Power Plant Design* (3-week course)
	T-806-UMFE Traffic and Road Construction Management*	T-535-MECH Mechatronics II*	RT IDN 1003 Industrial Controllers & Robots*
	BT JTÆ 2013 Geotechnical Engineering**	RT FSK 2003 Communication Systems II*	RT RVE 1003 Electrical Machines*
	T-803-VERK Project Management and Strategic Planning*	RT RAT 2003 Electronics II*	VT KÆL 1013 Refrigeration and Heat Pumps*
	BT LAG 3003 Water Supply and Wastewater*	AT INT 1003 Intership I (elective)	AT INT 1003 Intership I (elective)
	BT LOF 1003 Ventilation Systems	AT INT 2003 Intership II (elective)	AT INT 2003 Intership II (elective)
	BT HVB 3013 Practical Project in Design/BIM	AT INT 3003 Intership III (elective)	VT HVV 3003 Practical Project in Energy or Mechanics
	. ,	RT HVR 4003 Practical Project in Electronics or Electric Power	
7.önn	BT LOK 1012 Final Project in Civil Engineering,	RT LOK 1002 Final Project in Electrical Engineering,	VT LOK 1012 Final Project in Mechanical/Energy Engineering,
	in cooperation with an industrial firm (24 ECTS)	in cooperation with an industrial firm (24 ECTS)	in cooperation with an industrial firm (24 ECTS)
	AT RSN 1003 Management and Innovation	AT RSN 1003 Management and Innovation	AT RSN 1003 Management and Innovation

^{*}Recommended electives, other elective are also offered. In some cases, specialized internship is optional instead of a specialized elective course.

^{**}These courses are taught every other year, each time for a combined group of 2nd and 3rd year students, or 1st and 2nd, year students, see each groups study plan.

**Students in their 4th semester must take either Electric Installations Design or Data Structures (they may take the other course as an elective in the 6th semester).