Electrical Engineering study plan

CPs	1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester
1	MATH110 Mathematics I 6 CP (6 UoIL)	MATH120 Mathematics II 8 CP (8 UoIL)	MECH210 Engineering Mechanics II (Dynamics) 4 CP (4 UoIL)	EEEJ221 Measurement, Instrumentation and Control Basics 4 CP (4 UoIL)	EEEE311 Electrotechnical Materials 4 CP (4 UoIL)	EEEJ321 Renewable Energy System 4 CP (4 UoIL)	EEEE 411 Transmission and Distribution Engineering 6 CP (6 UoIL)	EEEE 421 Power Systems Planning Operation and Control 6 CP (6 UoIL)
2								
3								
4								
5			STAT210 Introduction to Statistic 4 CP (4 UoIL)	CAD220 Computer Aided Design (CAD) 4 CP (4 UoIL)	EEEM 312 Mechatronics and Controllers 4 CP (4 UoIL)	EEEM 322 Power Electronics 4 CP (4 UoIL)		
6								
7	CHEM110 Chemistry 5 CP (3 UoIL, 2 UoIR)						EEEE 412 Embedded Systems 4 CP (4 UoIL)	EEEE 422 Power System Relaying & Protection 6 CP (6 UoIL)
8								
9		MATS120 Materials Science 4 CP (4 UoIL)	THER210 Engineering Thermodynamics 4 CP (4 UoIL)	FLME220 Fluid Mechanics 4 CP (4 UoIL)	EEEM 313 Control Systems 4 CP (4 UoIL)	EEEM 323 Electric Machines and Drive 4 CP (4 UoIL)		
10								
11								
12	GEOS110 Introduction to Geosciences 4 CP (4 UoIL)							
13		MECH120 Engineering Mechanics I (Statics) 4 CP (4 UoIL)	DESN210 Engineering Design 4 CP (4 UoIL)	RREC220 Raw Materials & Recycling 4 CP (4 UoIL)	EEEE 314 Electronics 6 CP (6 UoIL)	EEEM 324 Digital Signal Processing 4 CP (4 UoIL)	EEEE 413 Power Plant Engineering 6 CP (6 UoIL)	THES420 Bachelor Thesis + Colloquium 12 CP
14								
15								
16	EEEJ111 Algorithm and Programming 4 CP (4 UoIL)							
17		PHYS120 Physics 6 CP (1 UoIL, 1 UoIR, 4 UoILab)	ELEC210 Introduction to Electrical Engineering 4 CP (4 UoIL)	SCIM220 Scientific Methods 2 CP (2 UoIL)		EEEE 325 High voltage engineering 6 CP (6 UoIL)	STWR410 Scientific Writing 4 CP (4 UoIL)	
18								
19				HSE220 Health-Safety-Environment 4 CP (4 UoIL)	EEEE 315 Energy Storage & Conversions 4 CP (4 UoIL)			
20	ENSO110 Engineer in Society 2CP (2 UoIL)							
21			MINE210 Introduction to Mining 4 CP (4 UoIL)					
22	PROJ110 Engineering Project 2 CP (2 UoIL)			LAW220 Law 2 CP (2 UoIL)			PROJ420 Final Study Project 6 CP (6 UoIL)	
23		CHEM120 Chemistry Lab 3 CP (3 UoIL)			EEEE 316 Circuit Analysis 6 CP (6 UoIL)			
24	ENGL110 Technical English 4 CP (4 UoIL)			INTR220 Basic Internship 2 CP				
25			ECON210 Introduction to Economics 4 CP (4 UoIL)			INTR320 Industrial Internship + Reflection 10 CP 14 weeks		
26		IEMB120 Introduction to Engineering Management & BA 4 CP (4 UoIL)						
27								
28	TIME110 Time Management 2 CP (2 UoIL)							
29								
30		INCC120 Intercultural Comm & Competence 2 CP (2 UoIL)						
31								
32								
Total CP	29	31	28	26	28	32	26	24

Legend:			Fundamentals	Specialization	General	Foreign Languages	Internship / Thesis	Electives
CP =	Credit Points							
UoI =	Unit of Instruction (45 min. per unit)		UoILab =	Unit of Instruction Laboratory				
UoIL =	Unit of Instruction Lecture		UoIFt =	Unit of Instruction Field trip				
UoIR =	Unit of Instruction Recitation							

**Electives: Every 3rd and 4th year student can choose professional engineering modules from the other programs as electives. Presupposed for participation and recognition of the elective module is that the required prerequisites of the chosen elective module already have been passed. Furthermore, the adjustment of the lecture times for attendance in the chosen elective modules can only be made by ASA in exceptional cases. The student must choose his subjects in such a way that participation in his program-related modules is not endangered or restricted.
**** The total amount of CP's from Electives has to be minimium 24.