## Mechanical Engineering study plan

CPs	1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester
1 2 3 4	MATH110 Mathematics I 6 CP (6 UoIL)	MATH120 Mathematics II 8 CP (8 UoIL)	MECH210 Engineering Mechanics II (Dynamics) 4 CP (4 UolL)	EEEJ221 Measurement, Instrumentation and Control Basics 4 CP (4 UoIL)	MECH310 Engineering Mechanics III (Mechanics of Materials) 4 CP (4 UoIL) MECH311 Production Process Technology 6 CP (6 UoIL)	MECH321 Engineering Mechanics IV (Machine Elements) 6 CP (6 UolL)	MECH410 Engineering Mechanics V (Dynamics of Machinery) 6 CP (6 UolL)	MECH420 Classifiers and Mixers + Coarse Comminution Machines 6 CP (6 UoIL)
5 6			STAT210 Introduction to Statistic 4 CP (4 UoIL)	CAD220 Computer Aided Design (CAD) 4 CP (4 UoIL)				
7 8	CHEM110 Chemistry 5 CP (3 UoIL, 2 UoIR)					MECH322 Virtual Product Design 4 CP (4 UoIL)	MECH411 Structural Durability and System Reliability 4 CP (4 UolL)	PROJ420 Final Study Project 6 CP (6 UoIL)
9 10		MATS120 Materials Science 4 CP (4 UoIL)	THER210 Engineering Thermodynamics 4 CP (4 UoIL)	FLME220 Fluid Mechanics 4 CP (4 UoIL)				
11 12					Process Hyc Engineering I + Process Mineralogy ( (4 UolL) HAMT310 E	MECH323 Hydraulic and Pneumatic Drives 4 CP (4 UoIL)	MECH412 Finite Element Method 4 CP (4 UolL) MECH413 Production and	
13	GEOS110 Introduction to Geosciences 4 CP (4 UoIL)	MECH120 Engineering Mechanics I (Statics) 4 CP (4 UolL)	DESN210 Engineering Design 4 CP (4 UoIL)	RREC220 Raw Materials & Recycling 4 CP (4 UoIL)				
15						EEEJ321		THES420 Bachelor Thesi Colloquium 12 CP
16 17	EEEJ111 Algorithm and Programming 4 CP (4 UoIL) ENSO110 Engineer in Society 2CP (2 UoIL) PROJ110 Engineering Project	PHYS120 Physics 6 CP (1 UolL, 1 UolR, 4 UolLab)	ELEC210 Introduction to Electrical Engineering 4 CP (4 UoIL)	SCIM220 Scientific	Heat and Mass Transfer 4 CP (4 UoIL)	Renewable Energy System 4 CP (4 UoIL)	Process Simulation 4 CP	
18 19				Methods 2 CP (2 UoIL) HSE220 Health-Safety- Environment 4 CP (4 UoIL)	EEEM312 Mechatronics & Controllers 4 CP (4 UolL)	INTR320 Industrial Internship + Reflection 10 CP 14 weeks	(4 UolL) MECH414 Open Pit Excavation + Underground Mining Machines 6 CP (6 UolL)	
20 21								
22 23			MINE210 Introduction to Mining 4 CP					
24	2 CP (2 UolL) ENGL110 Technical English 4 CP (4 UolL) TIME110 Time	CHEM120 Chemistry Lab 3 CP (3 UoIL)	(4 UoIL)	Law 2 CP (2 UoIL)				
25 26		IEMB120 Introduction to Engineering Management & BA	ECON210 Introduction to Economics 4 CP (4 UoIL)	INTR220 Basic Internship 2 CP			STWR410 Scientific Writing 4 CP (4 UoIL)	
27 28								
29	Management 2 CP (2 UoIL)	4 CP (4 UoIL)						
30 31		INCC120 Intercultural Comm & Competence						
Total	29	2 CP (2 UoIL) 31	28	26	22	28	28	24
СР		2.						
gend:	CP = Uol = UolL = UolR =	Fundamentals         Specialization         General         Foreign Languages         Internship / Thesis         Election           Unit of Instruction (45 min. per unit)         UolLab =         Unit of Instruction Laboratory         Thesis         Election           Unit of Instruction Lecture         UolFt =         Unit of Instruction Field trip         Unit of Instruction Field trip         Unit of Instruction Lecture         Unit of Instruction Field trip						Electives

\*\*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 as a choice and by 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.