

Mechatronics 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 UoL)	MATH120 Mathematics II 8 CP (8 UoL)	MECH210 Engineering Mechanics II (Dynamics) 4 CP (4 UoL)	EEEJ221 Measurement, Instrumentation and Control Basics 4 CP (4 UoL)	MECH310 Engineering Mechanics III (Mechanics of Materials) 4 CP (4 UoL)	MECH321 Engineering Mechanics IV (Machine Elements) 6 CP (6 UoL)	SOFT410 Software Engineering 4 CP (4 UoL)	ROBT420 Robotics 6 CP (6 UoL)
2								
3			THER210 Engineering Thermodynamics 4 CP (4 UoL)	FLME220 Fluid Mechanics 4 CP (4 UoL)	EEEM 313 Control Systems 4 CP (4 UoL)		MECH323 Hydraulic and Pneumatic Drives 4 CP (4 UoL)	
4								
5	ELEC210 Introduction to Electrical Engineering 4 CP (4 UoL)	SCIM220 Scientific Methods 2 CP (2 UoL)	MECH313 Production Process Technology 6 CP (6 UoL)	EEEM 323 Electric Machines and Drive 4 CP (4 UoL)	MECH410 Engineering Mechanics V (Dynamics of Machinery) 6 CP (6 UoL)			
6						MINE210 Introduction to Mining 4 CP (4 UoL)	LAW220 Law 2 CP (2 UoL)	EEEM 324 Digital Signal Processing 4 CP (4 UoL)
7	ECON210 Introduction to Economics 4 CP (4 UoL)	INTR220 Basic Internship 2 CP	INTR320 Industrial Internship + Reflection 10 CP 14 weeks					
8				IEMB120 Introduction to Engineering Management & BA 4 CP (4 UoL)	INTR320 Industrial Internship + Reflection 10 CP 14 weeks			
9	INCC120 Intercultural Comm & Competence 2 CP (2 UoL)							
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Total CP	29	31	28	26	24	32	26	24

Legend:	CP = Credit Points	Fundamentals	Specialization	General	Foreign Languages	Internship / Thesis	Electives
	UoL = Unit of Instruction (45 min. per unit)		UoL = Unit of Instruction Laboratory				
	UoL = Unit of Instruction Lecture		UoL = Unit of Instruction Field trip				
	UoLR = Unit of Instruction Recitation						
<p>**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.</p> <p>**** The total amount of CP's from Electives has to be minimum 24.</p>							