

Raw materials and Process 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)	HAMT310 Heat and Mass Transfer 4 CP (4 UoL)	EEEJ321 Renewable Energy System 4 CP (4 UoL)	RMPE410 Chemical Reaction Engineering 4 CP (4 UoL)	RMPE420 Process System Engineering 8 CP (8 UoL)	
2									
3			STAT210 Introduction to Statistic 4 CP (4 UoL)	CAD220 Computer Aided Design (CAD) 4 CP (4 UoL)	MBIO310 Introduction to Microbial Biotechnology 4 CP (4 UoL)	RMPE320 Thermal Unit Operations 6 CP (6 UoL)	RMPE411 Hydrometallurgy 6 CP (6 UoL)		
4									
5			CHEM110 Chemistry 5 CP (3 UoL, 2 UoIR)	MATS120 Materials Science 4 CP (4 UoL)	THER210 Engineering Thermodynamics 4 CP (4 UoL)	FLME220 Fluid Mechanics 4 CP (4 UoL)	RMPE310 Mechanical Process Engineering I + Process Mineralogy 4 CP (4 UoL)		RMPE412 Fossil Fuel Technology 4 CP (4 UoL)
6									
7	GEOS110 Introduction to Geosciences 4 CP (4 UoL)	MECH120 Engineering Mechanics I (Statics) 4 CP (4 UoL)	DESN210 Engineering Design 4 CP (4 UoL)	RREC220 Raw Materials & Recycling 4 CP (4 UoL)	RMPE311 Properties of Rock 4CP (4 UoL)	RMPE321 Mining and Environment 4 CP (4 UoL)	RMPE413 Pyrometallurgy 6 CP (6 UoL)	PROJ420 Final Study Project 6 CP (6 UoL)	
8									
9	EEEJ111 Algorithm and Programming 4 CP (4 UoL)	PHYS120 Physics 6 CP (1 UoL, 1 UoIR, 4 UoLab)	ELEC210 Introduction to Electrical Engineering 4 CP (4 UoL)	SCIM220 Scientific Methods 2 CP (2 UoL)	RMPE312 Thermodynamics for Chemical Engineering 4 CP (4 UoL)	RMPE322 Mineral Process Engineering II 6 CP (6 UoL)	RMPE410 Open Pit Excavation + Underground Mining Machines 6 CP (6 UoL)	THES420 Bachelor Thesis + Colloquium 12 CP	
10									
11	ENSO110 Engineer in Society 2CP (2 UoL)	CHEM120 Chemistry Lab 3 CP (3 UoL)	MINE210 Introduction to Mining 4 CP (4 UoL)	HSE220 Health-Safety- Environment 4 CP (4 UoL)	LAW220 Law 2 CP (2 UoL)	INTR320 Industrial Internship + Reflection 10 CP 14 weeks	MECH410 Open Pit Excavation + Underground Mining Machines 6 CP (6 UoL)		
12									
13	PROJ110 Engineering Project 2 CP (2 UoL)	IEMB120 Introduction to Engineering Management & BA 4 CP (4 UoL)	ECON210 Introduction to Economics 4 CP (4 UoL)	INTR220 Basic Internship 2 CP			STWR410 Scientific Writing 4 CP (2 UoL)		
14									
15	ENGL110 Technical English 4 CP (4 UoL)	INCC120 Intercultural Comm & Competence 2 CP (2 UoL)							
16									
17	TIME110 Time Management 2 CP (2 UoL)								
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24									
25									
26									
27									
28									
29									
30									
31									
Total CP	29	31	28	26	20	30	30	26	

Legend:

CP =

Credit Points

UoI =

Unit of Instruction (45 min. per unit)

UoL =

Unit of Instruction Lecture

UoIR =

Unit of Instruction Recitation

Fundamentals

Specialization

General

Foreign Languages

Internship / Thesis

Electives

UoLab =

Unit of Instruction Laboratory

UoIFt =

Unit of Instruction Field trip

****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.

***** These electives are recommended for RMPE students.**

****** The total amount of CP's from Electives has to be minimum 24.**