

Study plan MSc "Geoscience" with focus "Tectonics and Resources"

Mandatory modules	CP	Sem.	Weekly hours	Comment	recommended semester
Igneous petrology	10				
Petrology of igneous rocks		WS	2		1st semester
Thin section exercises with igneous rocks		WS	2		
Numerical exercises w. data from igneous rocks		WS	2		
Economic Geology II					
Metallic mineral deposits		WS	2		1st to second semester
Non-metallic mineral deposits		WS	1		
Research project on ore deposits		SS	3		
Metamorphic petrology	12				
Petrology of metamorphic rocks		SS	2		2nd semester
Thin section exercises with metamorphic rocks		SS	2		
Numerical exercises w. data from metam. rocks		SS	2		
THERMOCALC course		SS	1	Block course in July (3 days)	
Recommended modules	CP	Sem.	Weekly hours	Comment	recommended semester
Basics in Petrology	6				
Mineralogy		WS	2		1st semester
Optical mineralogy		WS	2		
Structural Geology	10				
Lectures, seminars, exercises in structural geology		WS	2	Course has mandatory attendance	Each course can be selected individually for the complementary module I; 1st and 2nd semester
Special methods in structural geology		WS	2	Course has mandatory attendance	
Structural Geology field camp		SS	8 days	Costs of around 500 €	
Geochemical analyses by Laser-Ablation ICP mass spectrometry	5				
Methods of LA-ICP-MS		WS	2		3rd semester
Practical course in LA-ICP-MS		WS	2	Block course in February or March	
High-temperature geochemistry	6				
High-temperature geochemistry (lecture)		SS	2		2nd or 4th semester
High-temperature geochemistry (exercise)		SS	2		
Electron beam microanalyses	6				
Electron beam microanalyses (lecture)		SS	2		2nd or 4th semester
Electron beam microanalyses (practical)		SS	2		
Field course in tectonics and resources	10				
Pre-field course seminar		SS	1		2nd or 4th semester; not offered every year
Field course		SS	10 days	costs of around 600 €	
Thermodynamics	6				
Principles of elementary thermodynamics		SS	2		
Solution phase thermodynamics		SS	2		
MSc thesis	30				