

Table 5.1. Course schedule by semesters and years of study

Module 1: Exploitation of Mineral Deposits - EMD

Number	Code	Subject name	Semester	Classes of active teaching			Other classes	ECTS
				L	E	LAB		
THE FIRST YEAR								
1.	OIM1M1	Mathematics I	I	3	3	0	0	8
2.	OTI1F	Physic	I	3	1	2	0	8
3.	OTI1OH	General Chemistry	I	3	1	2	0	8
4.	OIM1I1	Informatics I	I	2	0	0	0	4
5.	OIM1EJ1	English Language II	I	1	1		0	2
			II	1	1	0	0	2
6.	OIM1I2	Informatics II	II	2	2	0	0	6
7.	OTI1M2	Mathematics II	II	3	3	0	0	8
8.	OTI1IG	Engineering Graphics	II	2	1	1	0	6
9.	ORI1KP OTI1NH	Elective subject 1	II	3	1	2	0	8
		1. <i>Elevational Projection</i> 2. <i>Inorganic Chemistry</i>						
Total hours of active lecturing				44			0	
Total ECTS points								60
THE SECOND YEAR								
1.	ORI2M1	Mechanics I	III	2	2	0	0	6
2.	ORI2ME	Machine Elements	III	2	1	2	0	6
3.	ORI2OG	Basic of Geology	III	3	0	0	0	6
4.	ORI2MP	Mineralogy and Petrography	III	3	3	0	0	8
5.	OIM2EJ2	English Language II	III	1	1		0	4
			IV	1	1	0	0	2
6.	ORI2OM	Strength of Materials	IV	2	2	0	0	6
7.	ORI2OE	Fundamentals of Electrical Engineering	IV	3	2	0	0	8
8.	ORI2G OTI2AH	Elective subject 2	IV	3	1	2	0	8
		1. <i>Geodesy</i> 2. <i>Analytical Chemistry</i>						
9.	ORI2MST OTI2OH	Elective subject 3	IV	3	1	2	0	6
		1. <i>Rock and Soil Mechanics</i> 2. <i>Organic Chemistry</i>						
Total hours of active lecturing				43			0	
Total ECTS points								60
THE THIRD YEAR								
1.	ORI3TOR	Technology and Sustainable Development	V	2	1	1	0	6
2.	ORI3MU OTI2FH	Elective subject 4	V	3	1	2	0	9
		1. <i>Machinery and Equipment</i> 2. <i>Physical Chemistry</i>						
3.	ORI3LMS	Mineral Deposits	V	3	1	0	0	7
4.	ORI3RM	Mine Surveying	V	2	2	0	0	6
5.	OIM3EJ3	English Language III	V	1	1		0	2
			VI	1	1	0	0	2
6.	ORI3T	Haulage	VI	3	2	0	0	6
7.	ORI3SP	Professional Practice	VI	0	0	0	4	4
8.	ORI3TBM	Technology of Drilling and Blasting	VI	3	2	0	0	6
9.	ORI3TIPO	Technology of Underground Facilities Construction	VI	3	2	0	0	6
10.	ORI3ILMS ORI3PPTZO	Elective subject 5	VI	2	2	0	0	6
		1. <i>Exploration of Mineral Deposits</i> 2. <i>Undermined Ground Movement and Structural Objects Protection</i>						
Total hours of active lecturing				41			4	
Total ECTS points								60
THE FOURTH YEAR								
1.	ORI4TZ	Occupational Safety	VII	2	2	0	0	4
2.	ORI4VR OTI4ZZŠ	Elective subject 6	VII	3	2	0	0	8
		1. <i>Mine Ventilation</i> 2. <i>Environmental protection</i>						
3.	ORI4TPVE	Surface Mining Technology	VII	3	3	0	0	6
4.	ORI4TPDE	Underground mining technology	VII	3	3	0	0	6
5.	ORI4GIT ORI4PMS	Elective subject 7	VII	2	2	0	0	6
		1. <i>Geoinformation Technologies</i> 2. <i>Mineral Processing</i>						
6.	ORI4EOP	Economics and Organization of Business	VIII	3	0	0	0	6
7.	ORI4PR ORI4PMT	Elective subject 8	VIII	3	3	0	0	6
		1. <i>Design of mines</i> 2. <i>Process Measurement Techniques</i>						
8.	ORI4OR	Mines Dewatering	VIII	2	3	0	0	6
9.	ORI4MO	Methods of Excavation	VIII	3	3	0	0	6
10.	ORI4SP	Professional Practice	VIII	0	0	0	4	3
11.	ORI4ZP	Bachelor Thesis	VIII	0	0	0	4	3
Total hours of active lecturing				45			8	
Total ECTS points								60
Total hours of active lecturing at all years of study				173			12	
				Total ECTS points			240	

Module 2: Mineral Processing - MP

Number	Code	Subject name	Semester	Classes of active teaching			Other classes	ECTS
				L	E	LAB		
THE FIRST YEAR								
1.	OIM1M1	Mathematics I	I	3	3	0	0	8
2.	OTI1F	Physic	I	3	1	2	0	8
3.	OTI1OH	General Chemistry	I	3	1	2	0	8
4.	OIM1I1	Informatics I	I	2	0	0	0	4
5.	OIM1EJ1	English Language I	I II	1 1	1 1	0	0	2 2
6.	OIM1I2	Informatics II	II	2	2	0	0	6
7.	OTI1M2	Mathematics II	II	3	3	0	0	8
8.	OTI1IG	Engineering Graphics	II	2	1	1	0	6
9.	ORI1KP OTI1NH	Elective subject 1 1. <i>Elevational Projection</i> 2. <i>Inorganic Chemistry</i>	II	3	1	2	0	8
Total hours of active lecturing				44			0	
Total ECTS points								60
THE SECOND YEAR								
1.	ORI2M1	Mechanics I	III	2	2	0	0	6
2.	ORI2ME	Machine Elements	III	2	1	2	0	6
3.	ORI2OG	Basic of Geology	III	3	0	0	0	6
4.	ORI2MP	Mineralogy and Petrography	III	3	3	0	0	8
5.	OIM2EJ2	English Language II	III IV	1 1	1 1	0	0	4 2
6.	ORI2OM	Strength of materials	IV	2	2	0	0	6
7.	ORI2OE	Fundamentals of Electrical Engineering	IV	3	2	0	0	8
8.	ORI2G OTI2AH	Elective subject 2 1. <i>Geodesy</i> 2. <i>Analytical Chemistry</i>	IV	3	1	2	0	8
9.	OPI2MST OTI2OH	Elective subject 3 1. <i>Rock and Soil Mechanics</i> 2. <i>Organic Chemistry</i>	IV	3	1	2	0	6
Total hours of active lecturing				43			0	
Total ECTS points								60
THE THIRD YEAR								
1.	OPI3TOR	Technology and Sustainable Development	V	2	1	1	0	6
2.	OPI3MU OTI12FH	Elective subject 4 1. <i>Machinery and Equipment</i> 2. <i>Physical Chemistry</i>	V	3	1	2	0	9
3.	ORI3UKS	Comminution and Classification of Materials	V	3	2	1	0	7
4.	ORI3IMSS	Testing Mineral and Secondary Raw Materials	V	2	2	0	0	6
5.	OIM3EJ3	English Language III	V VI	1 1	1 1	0 0	0 0	2 2
6.	ORI3T	Haulage	VI	3	2	0	0	6
7.	ORI3SP	Professional Practice	VI	0	0	0	4	4
8.	ORI3FMK	Physical Methods of Concentration	VI	2	1	2	0	6
9.	ORI3F	Flotation	VI	3	2	1	0	6
10.	ORI3OELMS OMI3OEM	Elective subject 5 1. <i>Basics of Mining Engineering</i> 2. <i>Fundamentals of the Extractive Metallurgy</i>	VI	2	0	0	0	6
Total hours of active lecturing				42			4	
Total ECTS points								60
THE FOURTH YEAR								
1.	ORI4TZ	Occupational Safety	VII	2	2	0	0	4
2.	ORI4VR OTI4ZZS	Elective subject 6 1. <i>Mine Ventilation</i> 2. <i>Environmental Protection</i>	VII	3	2	0	0	8
3.	ORI4SMK	Special Methods of Concentration	VII	3	1	1	0	6
4.	OTI4OV	Waste Waters	VII	2	1	2	0	6
5.	ORI4OJ ORI4RPMS	Elective subject 7 1. <i>Dewatering and Tailing</i> 2. <i>Reagents in Mineral Processing</i>	VII	1	1	1	0	6
6.	OTI4EOP	Economics and Organization of Business	VIII	3	0	0	0	6
7.	ORI4PR ORI4PMT	Elective subject 8 1. <i>Design of Mines</i> 2. <i>Process Measurement Techniques</i>	VIII	3	3	0	0	6
8.	ORI4LOR	Leaching and Solutions Processing	VIII	3	1	2	0	6
9.	ORI4TPMS	Mineral Processing Technologies	VIII	2	2	2	0	6
10.	ORI4SP	Professional Practice	VIII	0	0	0	4	3
11.	ORI4ZR	Bachelor Thesis	VIII	0	0	0	4	3
Total hours of active lecturing				43			8	
Total ECTS points								60
Total hours of active lecturing at all years of study				172			12	
				Total ECTS points				240

Module 3: Recycling Technologies and Sustainable Development - RTSD

Number	Code	Subject name	Semester	Classes of active teaching			Other classes	ECTS
				L	E	LAB		
THE FIRST YEAR								
1.	OIM1M1	Mathematics I	I	3	3	0	0	8
2.	OT11F	Physic	I	3	1	2	0	8
3.	OT11OH	General Chemistry	I	3	1	2	0	8
4.	OIM1I1	Informatics I	I	2	0	0	0	4
5.	OIM1EJ1	English Language I	I	1	1	0	0	2
			II	1	1	0	0	2
6.	OIM1I2	Informatics II	II	2	2	0	0	6
7.	OT11M2	Mathematics II	II	3	3	0	0	8
8.	OT11IG	Engineering Graphics	II	2	1	1	0	6
9.	ORI1KP OT11NH	Elective subject 1 3. <i>Elevational Projection</i> 4. <i>Inorganic Chemistry</i>	II	3	1	2	0	8
Total hours of active lecturing				44			0	
Total ECTS points								60
THE SECOND YEAR								
1.	ORI2M1	Mechanics I	III	2	2	0	0	6
2.	ORI2ME	Machine Elements	III	2	1	2	0	6
3.	ORI2OG	Basic of Geology	III	3	0	0	0	6
4.	ORI2MP	Mineralogy and Petrography	III	3	3	0	0	8
5.	OIM2EJ2	English Language II	III	1	1	0	0	4
			IV	1	1	0	0	2
6.	ORI2OM	Strength of materials	IV	2	2	0	0	6
7.	ORI2OE	Fundamentals of Electrical Engineering	IV	3	2	0	0	8
8.	ORI2G OT12AH	Elective subject 2 1. <i>Geodesy</i> 2. <i>Analytical Chemistry</i>	IV	3	1	2	0	8
9.	ORI2MST OT12OH	Elective subject 3 1. <i>Rock and Soil Mechanics</i> 2. <i>Organic Chemistry</i>	IV	3	1	2	0	6
Total hours of active lecturing				43			0	
Total ECTS points								60
THE THIRD YEAR								
1.	ORI3TOR	Technology and Sustainable Development	V	2	1	1	0	6
2.	ORI3MU OT12FH	Elective subject 4 1. <i>Machinery and Equipment</i> 2. <i>Physical Chemistry</i>	V	3	1	2	0	9
3.	ORI3UKS	Comminution and Classification of Materials	V	3	2	1	0	7
4.	ORI3IMSS	Testing Mineral and Secondary Raw Materials	V	2	2	0	0	6
5.	OIM3EJ3	English Language III	V	1	1	0	0	2
			VI	1	1	0	0	2
6.	ORI3T	Haulage	VI	3	2	0	0	6
7.	ORI3SP	Professional Practice	VI	0	0	0	4	4
8.	ORI3FMK	Physical Methods of Concentration	VI	2	1	2	0	6
9.	ORI3F	Flotation	VI	3	2	1	0	6
10.	ORI3UTP	Management and Treatment of Waste	VI	3	3	0	0	6
Total hours of active lecturing				46			4	
Total ECTS points								60
THE FOURTH YEAR								
1.	ORI4TZ	Occupational Safety	VII	2	2	0	0	4
2.	ORI4VR OT13ZŽS	Elective subject 6 1. <i>Mine Ventilation</i> 2. <i>Environmental protection</i>	VII	3	2		0	8
3.	ORI4SMK	Special Methods of Concentration	VII	3	1	1	0	6
4.	OT14OV	Waste Waters	VII	2	1	2	0	6
5.	ORI4TPTO ORI4AOIE	Elective subject 7 1. <i>Technogenic Waste Materials Processing</i> 2. <i>Alternative and Renewable Energy Sources</i>	VII	2	1	1	0	6
6.	OT14EOP	Economics and Organization of Business	VIII	3	0	0	0	6
7.	ORI4LOR	Leaching and Solutions Processing	VIII	3	1	2	0	6
8.	ORI4PR ORI4PMT	Elective subject 8 1. <i>Design of Mines</i> 2. <i>Process Measurement Techniques</i>	VIII	3	3	0	0	6
9.	ORI4TR	Recycling Technology	VIII	2	4	0	0	6
10.	ORI4SP	Professional Practice	VIII	0	0	0	4	3
11.	ORI4ZR	Bachelor Thesis	VIII	0	0	0	4	3
Total hours of active lecturing				44			8	
Total ECTS points								60
Total hours of active lecturing at all years of study				177			12	
Total ECTS points								240