

Polytechnic School of Almadén 3-year Degree in Mining Engineer, Specialist in Mine Exploitation		
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Description of the Syllabus	Professional qualification	3-year Degree in Mining Engineer, Specialist in Mine Exploitation
	Duration	3 years
	Division in cycles	1 cycle
	Admission requirements	
	Educational and professional goals	
	Access to further studies	

Name of the Faculty/Centre	Polytechnic School of Almadén
Professional Qualification	3-year Degree in mining Engineer, Specialist in Mine Exploitation
Date of the Syllabus	1999
Overall number of classes in UCLM credits	225 credits
Overall number of classes in ECTS credits	180 credits

First Year

Code	Subject	ECTS Credits
19401	Fundamental Physics of Engineering	8,5
19402	Fundamental Chemistry of Engineering	7
19403	Mineralogy, Petrography and Geological Resources	5
19404	Basic Mathematics I (Calculus)	5
19405	Basic Mathematics II (Algebra)	5
19406	Basic Computing	5
19407	Graphic Expression	5
19408	Topography and Cartographic Systems	5
19409	General Geology	5
19210	Mineral Deposits	5
	<i>Free configuration</i>	4,5
	TOTAL	60

Second Year

Code	Subject	ECTS Credits
19302	Technology of Mining Prospection	7,5
19412	Theory of Structures	7,5
19202	Technology of Minerals	6
19414	Economics	4,5
19304	Subterranean Topography	5
19305	Applied Hydraulics	5
14910	Electrical Technology	5
19203	Explosives	6
	<i>Optional Courses</i>	9
	<i>Free configuration</i>	4,5
	TOTAL	60

Third Year

Code	Subject	ECTS Credits
19204	Technology of Mine Exploitation	9,5
19418	Mining Constructions	7
19308	Mining Legislation and Safety	6,5
19309	Engineering and Morphology of Soil	5
19420	Project	4,5
19205	Subterranean Works of Civil Engineering	4,5
9008	End of Degree Project	5
	<i>Optional Courses</i>	9
	<i>Free configuration</i>	9
	TOTAL	60

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Code	Subject	ECTS Credits
19426	Technical English for Mining	4,5
19427	History of Science and Technology	4,5
19428	Materials' Science and Engineering	4,5
19429	Industrial Design	4,5
19313	Fluid and Mechanic Engineering	4,5
19314	Applied Thermodynamics and Energy Systems	4,5
19315	Remote-detection and GIS	4,5
19206	Mining Environment	4,5
19207	Planning and General Services in the Mining Industry	4,5
19431	Project Management	4,5
19432	General Electrical Installations	4,5
19433	Statistical Quality Control	4,5
19208	Treatment Plants	4,5
19209	Geological Engineering	4,5

Free configuration

Code	Subject	ECTS Credits
86107	Applied engineering Ofimatics	4,5
86108	Vehicles Engineering	4,5

2 Study Routes are Available

Route 1	MINING (3 Optional Courses must be followed to complete this course)	
Route 2	CIVIL ENGINEERING (3 Optional Courses must be followed to complete this course)	