

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

<b>Name of the Faculty/Centre</b>	<b>Polytechnic School of Almadén</b>
<b>Professional Qualification</b>	<b>3-year Degree in Mining Engineer, Specialist in Sounding and Mining Prospecting</b>
<b>Date of the Syllabus</b>	1999
<b>Overall number of classes in UCLM credits</b>	225 credits
<b>Overall number of classes in ECTS credits</b>	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
19301	Minerals and Industrial Rocks I	5
	<i>Free configuration</i>	4,5
	<b>TOTAL</b>	<b>60</b>

## Second Year

Code	Subject	ECTS Credits
19300	Technology of Mining Prospecting	9,5
19412	Theory of Structures	7,5
19303	Minerals and Industrial Rocks II	5
19414	Economics	4,5
19304	Subterranean Topography	5
19305	Applied Hydraulics	5
19310	Applied Geology	5
19410	Electrical Technology	5
	<i>Optional Courses</i>	9
	<i>Free configuration</i>	4,5
	<b>TOTAL</b>	<b>60</b>

## Third Year

Code	Subject	ECTS Credits
19307	Sounding Technology	10
19418	Mining Constructions	7
19308	Mining Legislation and Safety	5,5
19309	Engineering and Morphology of Soil	4,5
19420	Projects	4,5
19306	Hydrogeologic Technology	5
9007	End of Degree Project	5
	<i>Optional Courses</i>	9
	<i>Free configuration</i>	4,5
	<b>TOTAL</b>	<b>60</b>

## Optional Courses

Code	Subject	ECTS Credits
19426	Technical English for Mining	4,5
19311	Methods for the Study of Minerals and Rocks	4,5
19427	History of Science and Technology	4,5
19312	Mineralogy and Environmental Geo-chemistry	4,5
19313	Fluid and Mechanic Engineering	4,5
19314	Applied Thermodynamics and Energy Systems	4,5
19315	Remote-detection and GIS	4,5
19316	Geology of Spain	4,5
19317	Alteration of Monuments	4,5
19432	General Electrical Installations	4,5
19318	Geology of the Environment	4,5
19430	Water Treatment	4,5
19431	Project Management	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	ENVIROMENTAL CONTROL (3 Optional Courses must be followed to complete this course)	
Route 2	ECONOMIC GEOLOGY (3 Optional Courses must be followed to complete this course)	