

Polytechnic School of Almadén
3-year Degree in Mining Engineer, Specialist in Energy Resources,
Fuel Technology and Explosives

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Description of the Syllabus	Professional qualification	3-year Degree in Mining Engineer, Specialist in Energy Resources, Fuel Technology and Explosives
	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 Energy Resources, Fuel Technology and Explosives
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
19410	Electrical Technology	5
	<i>Free configuration</i>	4,5
	TOTAL	60

Second Year

Code	Subject	ECTS Credits
19411	Energy Engineering	9,5
19412	Theory of Structures	7,5
19413	Technology of Explosives	8
19414	Economics	4,5
19415	Unit Operations I	3,5
19416	Geology of Energy Resources	4,5
19417	Electrical Machines	4,5
	<i>Optional Courses</i>	9
	<i>Free configuration</i>	9
	TOTAL	60

Third Year

Code	Subject	ECTS Credits
19418	Mining Constructions	7
19419	Unit Operations II	5
19420	Projects	4,5
19421	Fuel Technology I	5
19422	Legislation and Security of Energy Resources	5
19423	Fuel Technology II	5
19424	Petrol Refining	5
19425	Electronics and Automation	5
9008	End of Degree Project	5
	<i>Optional Courses</i>	9
	<i>Free configuration</i>	4,5
	TOTAL	60

Optional Courses

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
19430	Water Treatment	4,5
19431	Project Management	4,5
19432	General Electrical Installations	4,5
19433	Statistical Quality Control	4,5
19434	Hydrocarbon Exploitation	4,5
19435	Industrial Energy Management and Alternative Energy	4,5

Free configuration

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