Polytechnic School of Almadén 3-year Degree in Industrial Engineer, Specialist in Mechanics		
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Description of the Syllabus	**Professional qualification**	**3-year Degree in Industrial Engineer, Specialist in Mechanics**
	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 Industrial Engineer, Specialist in Mechanics**
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
20201	Fundamental Physics of Engineering	8,5
20203	Graphic Expression and Computer Assisted Design	6
20204	Basic of Material Science	5
20206	Basic Mathematics I (Calculus)	5
20207	Basic Mathematics II (Algebra)	5
20208	Chemistry	3,5
20209	Graphic Expression and Computer Assisted Design II	3,5
20211	Basic Computing	4,5
20212	Statistical Methods in Engineering	5
20213	Ampliation of Mathematics for Mechanical Engineering	4,5
20214	Quality Management and Metrology	5
	Free configuration	4,5
	TOTAL	**60**

Second Year

Code	Subject	ECTS Credits
20215	Thermal Engineering	7,5
20217	Elasticity and Resistance of Materials	7,5
20218	Fundamental Electrical Technology	4,5
20219	Fluid and Mechanic Engineering	4,5
20220	Mechanics and Theory of Mechanisms I	4,5
20221	Alloys for Mechanical Engineering	4,5
20222	Business Administration and Organisation of Production	4,5
20223	Mechanical Technology	4,5
20224	Mechanics and Theory of Mechanisms II	4,5
	Optional Courses	4,5
	Free configuration	9
	TOTAL	**60**

Third Year

Code	Subject	ECTS Credits
20225	Theory of Structures and Industrial Constructions	7,5
20226	Machine Design	6
20227	Technical Office	5
20228	Metallic and Concrete Structures	5
20229	Mechanical Installations	6
20230	Engineering of Joints	3,5
20231	Electrical Installations	4
9012	End of Degree Project	5
	Optional Courses	13,5
	Free configuration	4,5
	TOTAL	**60**

Optional Courses

Code	Subject	ECTS Credits
20128	Technical English	4,5
20134	Industrial Design	4,5
20232	Advanced Materials	4,5
20135	Prevention and Work Security	4,5
20136	Statistical Quality Control	4,5
20140	Optimisation and Simulation	4,5
20141	Project Management	4,5
20233	Ampliation of Machine Design	4,5
20234	Automation of Production	4,5
20235	Accessories for Metallic and Concrete Structures	4,5
20236	Accessories for Industrial Installations and Buildings	4,5
20237	Computer Assisted Mechanical Engineering	4,5
20238	Civil Works in Mechanical Engineering	4,5
20239	Transports	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	MACHINES (3 Optional Courses must be followed to complete this course)	
Route 2	STRUCTURES AND INSTALLATIONS (3 Optional Courses must be followed to complete this course)	