

**List of courses taught in English at Miguel Hernández University of Elche**

<b>Program</b>	<b>Course name</b>	<b>Course description</b>	<b>Course code</b>
<a href="#"><u>Bachelor's in Business Administration and Management (Elche Campus)</u></a>	<a href="#"><u>MARKETING PLAN (Elche)</u></a>	Elaboration of a marketing plan, environmental analysis. Competitor analysis. Market research. Marketing strategy development. Marketing objectives and the marketing plan.	2195
<a href="#"><u>Bachelor's in Business Administration and Management. Orihuela Campus</u></a>	<a href="#"><u>MARKETING PLAN (Orihuela)</u></a>	Elaboration of a marketing plan, environmental analysis. Competitor analysis. Market research. Marketing strategy development. Marketing objectives and the marketing plan.	1530
<a href="#"><u>Bachelor's in Business Statistics</u></a>	<a href="#"><u>MACROECONOMICS</u></a>	Models for determining income in a closed economy. Money. Inflation. Growth. Open economies. Analysis of economic policy instruments.	1490
<a href="#"><u>Bachelor's in Business Statistics</u></a>	<a href="#"><u>STRATEGIC DECISION MODELS</u></a>	Introduction to game theory. Non-cooperative models. Solution concepts. Practical applications.	1488
<a href="#"><u>Bachelor's in Computer Engineering in Information Technologies</u></a>	<a href="#"><u>FREE SOFTWARE TOOLS</u></a>	Free software tools. Implementation of free software in the public and private sectors. Actual cases of free software implementation.	2820
<a href="#"><u>Bachelor's in Electrical Engineering</u></a>	<a href="#"><u>HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS (HVAC)</u></a>	Cooling and heating. Design and calculation of air conditioning and heating systems.	2236
<a href="#"><u>Bachelor's in Electrical Engineering</u></a>	<a href="#"><u>LIGHTING AND ILLUMINATION</u></a>	Physical fundamentals of lighting. Measuring lighting magnitudes. Interior and exterior lighting installation design. Energy savings in lighting.	2238
<a href="#"><u>Bachelor's in Electronic Engineering and Industrial Automation</u></a>	<a href="#"><u>HIGH FREQUENCY CONVERTERS</u></a>	Simulation, analysis, and design of DC/DC high frequency switching converters. High frequency DC/AC converters.	1781
<a href="#"><u>Bachelor's in Electronic Engineering and Industrial Automation</u></a>	<a href="#"><u>RECONFIGURABLE ELECTRONICS</u></a>	Design of configurable analog and digital electronics systems. Field-programmable analog array and field-programmable gate array devices.	1784
<a href="#"><u>Bachelor's in Electronic Engineering and Industrial Automation</u></a>	<a href="#"><u>STATE-SPACE CONTROL</u></a>	Modern control theory. State-space representation. Controllability and observability.	1785

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<a href="#"><u>Bachelor's in Environmental Science</u></a>	<a href="#"><u>METHODS AND MODELS IN ECOLOGY</u></a>	Formalization of ecological problems. Experimental design and sampling in ecology. Process modeling.	1601
<a href="#"><u>Bachelor's in Journalism</u></a>	<a href="#"><u>MEDIA STRUCTURE</u></a>	Structure, historical development, and culture of the media, and their implications for professional practice.	1850
<a href="#"><u>Bachelor's in Labor Relations and Human Resources</u></a>	<a href="#"><u>THE INTERNET AT COMPANIES</u></a>	Internet services. Web 2.0. Web information systems for customer relationship management (CRM). Web systems for enterprise resource planning (ERP).	1920
<a href="#"><u>Bachelor's in Mechanical Engineering</u></a>	<a href="#"><u>ACOUSTIC ENGINEERING</u></a>	Characterization of industrial noise sources, conditioning rooms, sound insulation, methods of noise correction, and environmental acoustics.	1819
<a href="#"><u>Bachelor's in Mechanical Engineering</u></a>	<a href="#"><u>ENERGY EFFICIENCY AND RENEWABLE ENERGY</u></a>	Efficient energy management. Renewable energy sources.	1820
<a href="#"><u>Bachelor's in Telecommunications Technology Engineering</u></a>	<a href="#"><u>MOBILE AND WIRELESS COMMUNICATIONS</u></a>	Mobile communication systems. Mobile channel model, multiple access techniques, modulation, coverage, and capabilities. Wireless communication systems for different ranges and in distinct frequency bands.	2275
<a href="#"><u>Bachelor's in Telecommunications Technology Engineering</u></a>	<a href="#"><u>EMBEDDED ELECTRONIC SYSTEMS</u></a>	Integration of autonomous electronic systems.	2271
<a href="#"><u>Bachelor's in Telecommunications Technology Engineering</u></a>	<a href="#"><u>MOBILE AND WIRELESS COMMUNICATIONS</u></a>	Mobile communication systems. Mobile channel model, multiple access techniques, modulation, coverage, and capabilities. Wireless communication systems for different ranges and in distinct frequency bands.	2275
<a href="#"><u>Bachelor's in Telecommunications Technology Engineering</u></a>	<a href="#"><u>TELECOMMUNICATIONS SYSTEMS APPLICATIONS</u></a>	Radiodetermination and radiolocation systems. Satellite navigation systems. Positioning systems. Optical communication systems and networks. Multichannel systems, design, planning, routing, control, and management of optical communication networks.	2273
<a href="#"><u>Master's in Computational Statistics and Data Science for Decision Making</u></a>	<a href="#"><u>MULTI-AGENT DECISION MODELS</u></a>	Basic multi-agent decision models. Non-cooperative models with sequential structures, and models with incomplete information. Cooperative models with, and without,	8264

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		transferable utility. Airport models, bankrupt models, voting models, and attribution models. Cooperation in models of operations research.	
<a href="#"><u>Master's in Industrial Engineering</u></a>	<a href="#"><u>MECHANICAL SYSTEM ANALYSIS AND SIMULATION</u></a>	Modeling, analysis, and simulation of mechanical systems. Computer applications for mechanical calculation. Numerical and dimensional synthesis. Synthesis of spatial mechanisms. Dynamics of non-ideal machines. Simulation techniques: resolution of kinematic, dynamic, and tension problems.	8089
<a href="#"><u>Master's in Industrial Engineering</u></a>	<a href="#"><u>SERVICE ROBOTICS</u></a>	Applications of medical, rehabilitation, and care robotics. Bioengineering. Applications of mobile and navigation robotics. 3D vision systems.	8091
<a href="#"><u>Master's in Industrial Engineering</u></a>	<a href="#"><u>INDUSTRIAL ELECTRONICS</u></a>	Industrial applications of power electronics.	8092
<a href="#"><u>Master's in Industrial Engineering</u></a>	<a href="#"><u>MECHANICAL SYSTEM ANALYSIS AND SIMULATION</u></a>	Modeling, analysis, and simulation of mechanical systems. Computer applications for mechanical calculation. Numerical and dimensional synthesis. Synthesis of spatial mechanisms. Dynamics of non-ideal machines. Simulation techniques: resolution of kinematic, dynamic, and tensional problems.	8089
<a href="#"><u>Master's in Telecommunications Engineering</u></a>	<a href="#"><u>VIRTUALIZATION OF NETWORKS AND SERVICES</u></a>	Management, administration, and maintenance of networks, services, and content. Planning of networks, services, and applications, considering the quality of service and scaling. Next generation Internet technologies and protocols, middleware, and services.	2966
<a href="#"><u>Master's in Telecommunications Engineering</u></a>	<a href="#"><u>ADVANCED APPLICATIONS IN SIGNAL PROCESSING</u></a>	Applications of advanced signal processing techniques in various fields of engineering and communications: bioengineering, audiovisual, remote sensing, and human-machine interfaces.	2964
<a href="#"><u>Master's in Telecommunications Engineering</u></a>	<a href="#"><u>ADVANCED TECHNOLOGIES IN OPTICAL COMMUNICATIONS</u></a>	Technologies for generating, distributing, amplifying, and routing signals with fiber. Advanced analog and digital fiber systems. Degrading factors. Optical networks.	2963