

VISITING PROFESSORS

ART AND HUMAN SCIENCES

COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Teaching leave	Bachelor	8	English	Semester 1	Pragmatics and English
Literary and cultural diversity in the French-speaking world	Bachelor	8	French	Semester 2	Linguistic, cultural and literary aspects of the Francophonie

ECONOMICS AND BUSINESS ADMINISTRATION

Business Management

COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Organizational Behavior	Master	4*	English	Dec. – Jan.	Employee's behavior in the context of work and, consequently, work on it trying to improve the performance of the employees
Human Resources Management I	Bachelor	4*	English	Sep. – Jan.	Study the management processes of the companies with the aim of adjusting human behavior in order the organization to be efficient
International Managerial Skills	Bachelor	8	English	Feb. – May	Develop a set of competences and skills: creative, good communicator, enterprising, team working, persuading, etc.

*Teaching should be supplemented by other activities to complete 8h.

Management and Organization					
COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
International Management of Family Business	Bachelor		English	Semester 1	A brief course about family firms, regarding their specific issues, as culture and values, succession processes, and governance.

*Teaching should be supplemented by other activities to complete 8h.

General Economy					
COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Applied Econometrics for International Business and Economics	Bachelor	4*	English	Semester 2	Methods and techniques to obtain economic and business forecasting, test economic theories and hypotheses related to international business and international economics, evaluate policies, and analyze economic data.

EDUCATION

Language and Literature					
COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Didactics of foreign languages in early childhood education	Bachelor	4*	English	March – May	Introductory course on teaching English as a foreign language in early childhood education (ages 0-3), comprising both theoretical (in Spanish/English) and hands-on practical (only through English) components.

Teaching should be supplemented by other activities to complete 8h.

Psychology					
COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Developmental psychology 1st grade of primary education teaching	Bachelor	8	English	Semester 1	Development psychology aged from 6-12. Learning variables to consider by teachers and teaching strategies to attend diversity in primary education

*Teaching should be supplemented of other activities to complete 8 h.

ENGINEERING					
Mechanical Engineering and Industrial Design					
COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Methodology of Research in Manufacturing Engineering	Master	8	English	Beginning of October	Parametric and nonparametric modeling of engineering data
Nonlinear Finite Element Analysis	PhD	8	English	December-March	A summary about the Finite Element Method will be given. Examples of linear Finite Element simulations will be discussed, also using symmetries in modeling. The basics of mechanical nonlinearities will be derived with a focus on geometric nonlinearities such as large deflections and mechanical stability such as buckling
Control, Electronic and Computer Engineering					
COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Fundamentals of Computer Architecture	Bachelor	8	English	Feb. – May.	MIPS, Assembly language

Information System Engineering	Bachelor	4*	Spanish or English	Oct. – Nov.	Notions of Information System Engineering and practical classes related to data streaming processing in information systems
Smart Data: Systems and Applications	Master	4*	Spanish or English	15th March – 15th May	Technologies for data stream processing in the IoT and smart cities, cloud/fog/edge computing

LAW

International Public, Criminal and Procedural Law

COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Public International Law I	Bachelor	4*	English	Semester 1	Algeciras Bay Campus
Public International Law II	Bachelor	4*	English	Semester 2	Algeciras Bay Campus
Gender, identity and citizenship	Master	4*	English or Spanish	Mar. – Apr.	Gender, Violence and Criminal Law

*Teaching should be supplemented by other activities to complete 8h

SCIENCES

COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Bioprocess Engineering/Bioreactors in Oenology	Bachelor	8	English	Summer semester	Application of transport phenomena and unit operations to the oenological field
Linear Algebra	Bachelor	8	English	Semester 1	Linear Algebra

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Math

COURSE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Calculus	Bachelor	4	English/Italian	October-January	Part of a subject corresponding to the knowledge related to multivariate calculus

Materials Science, Metallurgical Engineering and Inorganic Chemistry

COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Fluid Mechanics	Bachelor	8	English	Semester 2 (February-June)	Problems on the fundamentals of Fluid Mechanics: Hydrostatics, Differential Analysis, Integral Analysis, Dimensional Analysis, etc.
Materials Engineering and Technology	Bachelor	8	English	October – January	Mechanical and performance in service of materials. Materials Characterisation. Transformation and Processing of Materials. Materials Engineering. Materials & Process Selection in Industry. Junior or senior lecturer with research/teaching experience in the course topics
Materials Science and Engineering	Bachelor	8	English	February-May	<p>Introduction to Materials Science and Engineering Introduction to Materials Science and Engineering.</p> <p>Structure, Layout and Movement of Atoms Crystalline structures. Crystalline defects. Diffusion in solids.</p> <p>Properties of Materials Mechanical properties, break and tests. Other physical properties Chemical properties</p>

					<p>Control of Properties and Microstructure Plastic deformation in metals Phase diagrams. Phase transformations.</p> <p>Handling and controlling thermal, electrical, magnetic and optical properties</p> <p>Engineering Materials: Properties, Applications and Processing</p> <p>Metlic alloys. Ceramic materials. Polymeric materials. Composite materials Functional materials.</p> <p>Selection of Materials in Industrial Design Criteria for selecting materials. Junior or senior lecturer with research/teaching experience in the course topics</p>
Metallurgy and Materials Technology	Master	8	English	February-May	<p>Module 1: Engineering metals and alloys and their processing</p> <ul style="list-style-type: none"> ✓ High alloy steels ✓ Metallurgical processes: steelmaking, hot rolling, cold rolling, annealing, and finishing. Standardization <p>Module 2: Characterisation, in-service</p> <ul style="list-style-type: none"> ✓ behavior and control of materials. ✓ Response of materials to static and dynamic loads, and at high temperature. ✓ Standardized tests for the control of materials. ✓ Oxidation and corrosion: phenomenology and

					<p>prevention methods.</p> <p>Module 3: Selection of materials and processes</p> <ul style="list-style-type: none"> ✓ Advanced selection case studies: ✓ Constraints and multiple objectives ✓ Joint selection of material and shape <p>Module 4: Design of composites, foams and networks</p> <ul style="list-style-type: none"> ✓ Hybrid cross-linked materials ✓ Structural materials: sandwich panels and multilayers ✓ Fiber or particle reinforced materials ✓ Junior or senior lecturer with research/teaching experience in the course topics
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SOCIAL SCIENCES AND COMMUNICATION

Marketing and Audio-visual Communication

COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Structure of Tourist Markets	Bachelor	8	French	Semester 2	Market structure concepts focused on the tourism sector are explained, being a subject of an economic nature. Examples from the French market and the use of INSEE data, for example, would be welcome.
Structure of Tourist Markets	Bachelor	8	English	Feb. – May	Structure of Tourist Markets

Sociology	Bachelor	4*	English	Semester 2	Social research methods
Business Administration and Business Management					
COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Marketing Information Systems Management	Bachelor	8	English	Semester 2	In this course we teach students about new technologies from a management point of view. We will look at different types of software and their usefulness in the commercial area, as well as new trends for the future, and we will also review the process of planning, implementation, maintenance and auditing of the management information system.
Statistics and Operational Research					
COURSE TITLE	LEVEL	HOURS	LANGUAGE	PERIOD	COURSE CONTENT
Research Methodology	Master	4*	English	Feb. 12 – 13 (2025)	Offer students quantitative techniques to create a good research project.

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