



Teaching Guide				
Identifying Data				2022/23
Subject (*)	Emprendemento e Autoemprego	Code	610441007	
Study programme	Máster Universitario en Biología Molecular, Celular e Xenética			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	2nd four-month period	First	Obligatory	3
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department	Empresa			
Coordinador	Teijeiro Álvarez, Mercedes	E-mail	mercedes.teijeiro@udc.es	
Lecturers	Teijeiro Álvarez, Mercedes	E-mail	mercedes.teijeiro@udc.es	
Web				
General description	<p>In increasingly globalized and competitive environments, the figure of the entrepreneur acquires a leading role in the economic and social context of a community, especially the creation of high added value companies based on development of scientific and technological advances in strategic sectors such as dynamic element of growth. This subject is part of the Master's Degree in Molecular, Cellular and Genetic Biology. The main contributions of the subject are: understanding the importance of entrepreneurial culture, learning how to start a business and analyzing the context, as well as evaluating the opportunities and risks of entrepreneurial actions.</p>			

Study programme competences / results	
Code	Study programme competences / results
A3	Skills of understanding the functioning of cells through the structural organization, biochemistry, gene expression and genetic variability.
A13	Skills to become a professional in health, pharmacy, veterinary, animal production, biotechnology or food sectors.
B7	Personal progress skills : that are able to learn from freelance way, adapting to new situations, developing necessary qualities as the creativity, skills of leadership, motivation for the excellence and the quality.
B8	Critical reasoning skills and ethical commitment with the society: sensitivity in front of bioethical problems and to the ones related to the natural resource conservation
B11	Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context
B12	That students know how to apply the knowledge acquired and their ability to solve problems in new or little-known environments within broader (or multidisciplinary) contexts related to their area of ??study
B13	That students are able to integrate knowledge and face the complexity of formulating judgments based on information, which, being incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments
C5	Understanding the importance of entrepreneurial culture and the useful means for enterprising people.
C8	Valuing the importance of research, innovation and technological development for the socioeconomic and cultural progress of society.
C9	Ability to manage times and resources: developing plans, prioritizing activities, identifying critical points, establishing goals and accomplishing them.

Learning outcomes	
Learning outcomes	Study programme competences / results



To know and apply the basic methodology to develop a business plan	AR3	BR7 BC1 BC2 BC3	CC5 CC8 CC9
To know the possibility of applying the knowledge acquired for professional insertion with innovation criteria	AR13	BR8	CC5 CC8
To know in a basic way the management of processes in companies	AR13	BC3	CC5 CC8

Contents	
Topic	Sub-topic
Innovation, entrepreneurship and self-employment	Basic concepts of entrepreneurship and self-employment. Importance of biotechnology entrepreneurship in the social and economic progress of a society. Situation of the EU and Spain. European paradox. Types of entrepreneurship according to the purpose and level of innovation.
Entrepreneurship methodology and business plans	Life cycle of a biotech company Stages of biotech entrepreneurship. Components of a business model
Companies in the bio-health and biotechnology sector	Specific features Success stories

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Objective test	B11 C5	2	8	10
Seminar	A3 A13 B7 B8 B12 B13 C8 C9	3	0	3
Supervised projects	A3 A13 B7 B8 B9 B11 B12 B13 C9	3	27	30
Document analysis	B7 B8 B13	0	3	3
Guest lecture / keynote speech	B11 B12 B13 C5 C8	12	12	24
Personalized attention		5	0	5

(\*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
Methodologies	Description
Objective test	Written learning progress test, characterised by pre-determined answers. Well-designed tests offer objectively quantifiable results in relation to student knowledge, capacities, skills, performance, aptitudes, attitude, intelligence, etc. Used for diagnostic, formative and summative assessment. May consist of all or any of the following types of questions: multiple choice, ordering and sequencing, short answer, binary, completion, multiple matching.
Seminar	Group work technique aimed at in-depth exploration of given topic, consisting of group discussion, individual engagement, preparation of texts and collective conclusions.
Supervised projects	Metodoloxía deseñada para promover a aprendizaxe autónoma dos estudantes, baixo a tutela do profesor e en escenarios variados (académicos e profesionais). Está referida prioritariamente ao aprendizaxe do ?cómo facer as cousas?. Constitúe unha opción baseada na asunción polos estudantes da responsabilidade pola súa propia aprendizaxe. Este sistema de ensino baséase en dous elementos básicos: a aprendizaxe independente dos estudantes e o seguimento desa aprendizaxe polo profesor-titor.



Document analysis	Técnica metodolóxica que supón a utilización de documentos audiovisuais e/ou bibliográficos (fragmentos de reportaxes documentais ou películas, noticias de actualidade, paneis gráficos, fotografías, biografías, artigos, textos legislativos, etc.) relevantes para a temática da materia con actividades especificamente deseñadas para a análise dos mesmos. Pódese empregar como introdución xeral a un tema, como instrumento de aplicación do estudo de casos, para a explicación de procesos que non se poden observar directamente, para a presentación de situacións complexas ou como síntese de contidos de carácter teórico ou práctico.
Guest lecture / keynote speech	Oral presentation (using audiovisual material and student interaction) designed to transmit knowledge and encourage learning. Presentations of this type are variously referred to as 'expository method?', 'guest lectures?' or 'keynote speeches?'. (The term 'keynote?' refers only to a type of speech delivered on special occasions, for which the lecture sets the tone or establishes the underlying theme; it is characterised by its distinctive content, structure and purpose, and relies almost exclusively on the spoken word to communicate its ideas.)

### Personalized attention

Methodologies	Description
Supervised projects	All doubts raised in the tutorial hours will be addressed via Teams

### Assessment

Methodologies	Competencies / Results	Description	Qualification
Objective test	B11 C5	It will consist of multiple choice multiple choice questions about the contents of the topics covered in the master classes	30
Supervised projects	A3 A13 B7 B8 B9 B11 B12 B13 C9	Realización e presentación dun plan de negocio onde se vexan reflectidos todos os contidos abarcados no módulo.	70

### Assessment comments

<p>1. Assessment conditions: It is forbidden to access the exam room with any device that allows communication with the outside and / or storage of information.</p> <p>2. Identification of the student: students must prove their personality in accordance with current regulations.</p> <p>B) TYPES OF RATING:</p> <p>1. No-show grade: when students only participate in assessment activities that have a weighting of less than 20% on the final grade, regardless of the grade achieved.</p> <p>2. Students with recognition of part-time dedication and academic waiver of attendance exemption: Except for the dates approved in the Faculty Board for the final objective test, for the remaining tests a specific calendar of compatible dates will be agreed at the beginning of the course with your dedication. The evaluation will follow the same criteria as full-time students.</p> <p>1. First opportunity: the evaluation criteria previously indicated in this section will be applied.</p> <p>2. Second Chance: The evaluation criteria are the same for all evaluation opportunities.</p> <p>3. Early call: in the early call it is possible to recover the points of the continuous evaluation by means of additional questions to the final objective test.</p>
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### Sources of information

<b>Basic</b>	<ul style="list-style-type: none"> <li>- Alexandre Osterwalder &amp; Yves Pigneur (2012). Generación de modelos de negocio. Deusto</li> <li>- Xavier Vence Deza y David Rodeiro Pazos (2014). Innovación y emprendimiento con base en las ciencias. Universidade de Santiago de Compostela</li> <li>- César Ullastres (2012). Diez casos de éxito de empresas biotecnológicas en España. Genoma</li> <li>- Tomaso Canonici y Antonio Núñez (2019). El líder ante la innovación . Opinno and Parangon Partners</li> <li>- Pilar de la Huerta (2021). Emprender en biotecnología. LID</li> </ul>
<b>Complementary</b>	

### Recommendations



Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Other comments

1. The delivery of the documentary works that are carried out in this subject: 1. It will be requested in virtual format and/or computer support b. It will be done through Moodle, in digital format without the need to print them; 2. The importance of ethical principles related to sustainability values in personal and professional behavior must be taken into account; 3. Work will be done to identify and modify prejudices and sexist attitudes and the environment will be influenced to modify them and promote values of respect and equality. 4. The full integration of students who, for physical, sensory, psychological or sociocultural reasons, experience difficulties in gaining adequate, equal and beneficial access to university life will be facilitated.

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.