Teaching Guide					
Identifying Data					2022/23
Subject (*)	Emprendemento e Autoemprego			Code	610441007s
Study programme	Máster Universitario en Bioloxía Molecular, Celular e Xenética (semipresencial)				
Descriptors					
Cycle	Period	Year		Type	Credits
Official Master's Degree	2nd four-month period	First		Obligatory	3
Language	Spanish				
Teaching method	Hybrid				
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	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.				

Study programme competences	
Code	Study programme competences
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
B9	Skills of preparation, show and defense of a work.
B11	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
B12	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
B13	That students know how to communicate their conclusions and the knowledge and ultimate reasons that support them to specialized and non-specialized audiences in a clear and unambiguous way
C5	Understanding the importanceof 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		
To know the possibility of applying the knowledge acquired for professional insertion with innovation criteria	AR3 AR13	BR7 BC2 BC3	CC5 CC8

To know and apply the basic methodology to develop a business plan	AR3 AR13	BR7 BR8 BR9 BC2 BC3 BC4	CC5 CC9
To know in a basic way the management of processes in companies	AR3 AR13	BR7 BR8 BC2 BC3 BC4	CC9

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**	**Ordinary class hours**	**Student?s personal work hours**	**Total hours**
Document analysis	A3 A13 B7 B8 B11 B12 B13 C5 C8	0	3	3
Supervised projects	A3 A13 B7 B8 B9 B11 B12 B13 C9	3	27	30
Objective test	B11 B12	2	8	10
Seminar	A13 B8 B11 B12 B13 C5 C8	3	0	3
Guest lecture / keynote speech	A3 A13 B8 B11 B12 B13 C5 C8 C9	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**
Document analysis	Research skills development involving use of audiovisual and/or bibliographical documents (documentary or film extracts, news items, advertising images, photographs, articles, legal texts, etc.) relating to specific topic of study, with targeted analysis activities. Used as introduction to topic, as focus for case study, to explain abstract processes and present complex situations, or as strategy for synthesising content (theoretical and practical).
Supervised projects	Supervised learning process aimed at helping students to work independently in a range of contexts (academic and professional). Focused primarily on learning ?how to do things? and on encouraging students to become responsible for their own learning.

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.
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**	**Description**	**Qualification**
Supervised projects	A3 A13 B7 B8 B9 B11 B12 B13 C9	Realization and presentation of a business plan where all the contents covered in the module are reflected.	70
Objective test	B11 B12	It will consist of multiple choice multiple choice questions about the contents of the topics covered in the master classes	30

Assessment comments
1. Assessment conditions: Teams/Moodle 2. Identification of the student: students must prove their personality in accordance with current regulations. B) TYPES OF RATING: 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. 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. 1. First opportunity: the evaluation criteria previously indicated in this section will be applied. 2. Second Chance: The evaluation criteria are the same for all evaluation opportunities. 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.

Sources of information	
Basic	- Alexandre Osterwalder & Yves Pigneur (2012). Generación de modelos de negocio. Deusto - Tomaso Canonici y Antonio Núñez (2019). El líder ante la innovación . Opinno and Parangon Partners - César Ullastres (2012). Diez casos de éxito de empresas biotecnológicas en España. Genoma - Xavier Vence Deza y David Rodeiro Pazos (2014). Innovación y emprendimiento con base en las ciencias. Universidade de Santiago de Compostela
Complementary	

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. A entrega dos traballos documentais que se realicen nesta materia:a. Solicitarase en formato virtual e/ou soporte informático b. Realizarase a través de Moodle, en formato dixital sen necesidade de imprimilos 2. Débese ter en conta a importancia dos principios éticos relacionados cos valores de sustentabilidade nos comportamentos persoais e profesionais.3. Traballarase para identificar e modificar prexuízos e actitudes sexistas e influirase na contorna para modificalos e fomentar valores de respecto e igualdade.4. Facilitarase a plena integración do alumnado que por razóns físicas, sensoriais, psíquecias ou socioculturais, experimenten dificultades a un acceso adecuado, igualitario e proveitoso á vida universitaria.