Teaching Guide				
Identifying Data				2024/25
Subject (*)	Research Projects and Entrepreneurship		Code	614522026
Study programme	Mestrado Universitario en Bioinformática para Ciencias da Saúde			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	1st four-month period	Second	Obligatory	3
Language	SpanishGalician			
Teaching method	Face-to-face			
Prerequisites				
Department	Ciencias da Computación e Tecnoloxías da InformaciónDereito PrivadoEnxeñaría de Computadores			
Coordinador	Martin Santamaria, Maria Jose	E-mail	maria.martin.santamaria@udc.es	
Lecturers	Martin Santamaria, Maria Jose Pazos Sierra, Alejandro Rodriguez Brisaboa, Nieves Seoane Rodriguez, Jose Antonio	E-mail	maria.martin.santamaria@udc.es alejandro.pazos@udc.es nieves.brisaboa@udc.es jose.antonio.seoane@udc.es	
Web				
General description	O obxectivo deste curso é proporcionar ao alumno os fundamentos necesarios que lle permitan xestionar adecuadamente todo o proceso de xeración, xestión e comunicación dun proxecto de investigación e emprendemento.			

Study programme competences / results	
Code	Study programme competences / results
A10	CE10 - Draft a bioinformatics research project, anticipating obstacles and possible alternative strategies to resolve them.
B3	CB8 - Students to be able to integrate knowledge and deal with the complexity of making judgements from information that could be incomplete or limited, including reflections on the social and ethical responsibilities linked to the application of their skills and judgments
B4	CB9 - Students should know how to communicate their findings, knowledge and latest reasons underpinning them to specialized and non-specialized audiences in a clear and unambiguous way
B5	CB10 - Students should possess learning skills that allow them to continue studying in a way that will largely be self-directed or autonomous.
B8	CG3 - Be able to work in a team, especially of interdisciplinary nature
C1	CT1 - Express oneself correctly, both orally writing, in the official languages of the autonomous community
C2	CT2 - Dominate the expression and understanding of oral and written form of a foreign language
C4	CT4 - Be able to analyze the real situation, formulate and implement solutions based on knowledge and aimed at the common good and the exercise of open, educated, critical, committed, democratic and solidary citizenship.
C5	CT5 - Understand the importance of entrepreneurial culture and know the means available to enterprising people
C6	CT6 - To assess critically the knowledge, technology and information available to solve the problems they face to.
C7	CT7 ? To maintain and establish strategies for scientific updating as a criterion for professional improvement.
C8	CT8 - Rating the importance that has the research, innovation and technological development in the socio-economic and cultural progress of society

Learning outcomes			
Learning outcomes	Study programme competences / results		
Xestionar adecuadamente todo o proceso de xeneración, xestión e comunicación dun proxecto de investigación no campo da bioinformática	AJ10	BJ3 BJ4 BJ5 BJ8	CJ1 CJ2 CJ4 CJ6 CJ7 CJ8

Xestionar adecuadamente todo o proceso de xeneración, xestión e comunicación dun proxecto de emprendemento no campo da bioinformática		BJ3 BJ4 BJ5 BJ8	CJ1 CJ2 CJ4 CJ5 CJ6 CJ8

Contents	
Topic	Sub-topic
1. Solicitude e xestión de un proyecto de investigación	
2. Técnicas de presentación e comunicación de resultados	
3. Aspectos éticos. Protección de datos e propiedade intelectual	
4. Proxectos de emprendimento	
5. Estudo de casos prácticos	

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Problem solving	B8 C1 C2	5	10	15
Guest lecture / keynote speech	A10 B4 B5 C5 C8	15	21	36
Objective test	C5 C6 C8	2	0	2
Supervised projects	A10 B3 B4 B5 B8 C1 C2 C4 C5 C6 C7 C8	0	19	19
Personalized attention		3	0	3
(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
Methodologies	Description
Problem solving	Posta en práctica dos conceptos explicados nas sesións maxistrais.
Guest lecture / keynote speech	Exporanse en clases teóricas os conceptos que o alumno debe coñecer para empezar unha carreira investigadora ou emprendedora con éxito e desenvolver proxectos colaborativos utilizando as ferramentas dispoñibles.
Objective test	Pequenos controis que se realizarán dentro das clases expositivas do módulo de emprendemento.
Supervised projects	Os traballos tutelados permiten ao alumno familiarizarse dende un punto de vista práctico coas cuestións expostas nas clases teóricas.

Personalized attention	
Methodologies	Description
Supervised projects Problem solving	A atención personalizada na realización dos traballos tutelados e na solución de problemas será imprescindíbel para dirixir aos alumnos no desenvolvemento do traballo/problemas que se lle asignen.

Assessment			
Methodologies	Competencies / Results	Description	**Qualification**
Objective test	C5 C6 C8	Controis sobre o contido das sesións de emprendemento.	20
Supervised projects	A10 B3 B4 B5 B8 C1 C2 C4 C5 C6 C7 C8	Avaliación dos traballos tutelados desenvolvidos polo alumnos.	60
Problem solving	B8 C1 C2	Avaliación da posta en práctica dos coñecementos adquiridos.	20

Assessment comments
A avaliación divídese en tres partes: proxectos de investigación, comunicación de resultados e proxectos de emprendemento. Os módulos de proxectos de investigación e comunicación de resultados avalíanse a través de problemas y/o traballos tutelados. Peso na avaliación: 40% cada módulo. O módulo de emprendemento avalíase a través de pequenos controis levados a cabo nas clases expositivas. Peso na avaliación: 20%. È necesario ter como mínimo un 3 sobre 10 en cada un destes módulos para aprobar a asignatura. Todos os aspectos relacionados con "dispensa académica", "dedicación ao estudo", "permanencia" e "fraude académica" rexeranse de acordo coa normativa académica vixente da UDC.

Sources of information	
Basic	- J. López Yepes (1995). La aventura de la investigación científica: guía del investigador y del director de investigación. . Síntesis - J. Schimel (2011). Writing science. Oxford University Press - B. Gastel, R.A. Day (2016). How to write and publish a scientific paper. Greenwood - M. Anandarajan, A. Anandarajan (2010). e-Research Collaboration Theory, Techniques and Challenges. Springer
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

(*)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.