UNIVERSIDADE DA CORUÑA

Teaching Guide				
Identifying Data				2018/19
Subject (*)	Practicum (professional practice)		Code	614522018
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	Optional	3
Language	SpanishGalicianEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department				
Coordinador		E-mail		
Lecturers		E-mail		
Web	www.master.bioinformatica.fic.udc.es/			
General description	Esta materia permite que o alumno poida adquirir as competencias da titulación a través de traballo en empresas ou institucións públicas. O seu obxetivo é completar a formación do mestrado con estancias nestas entidades colaboradoras nas que experimentar o desenvolvemento da actividad de investigación ou profesional nunha contorna productiva. Dende a Facultade de Informática establécense convenios con distintas empresas ou institucións para a realización destas prácticas curriculares. Na web da Facultade de Informática irase informando dos convenios ya establecidos, non sendo una lista pechada senon que está aberta a novas relación en función do interese das empresas o dos estudantes. Estas prácticas terán un titor académico asignado pola comisión académica e un titor da empresa designado pola propia empresa.			

Study programme competences	
Code	Study programme competences
A3	CE3 ? To analyze, design, develop, implement, verify and document efficient software solutions based on an adequate knowledge of the theories, models and techniques in the field of Bioinformatics
A6	CE6 - Ability to identify software tools and most relevant bioinformatics data sources, and acquire skill in their use
A7	CE7 - Ability to identify the applicability of the use of bioinformatics tools to clinical areas.
B1	CB6 - Own and understand knowledge that can provide a base or opportunity to be original in the development and/or application of ideas, often in a context of research
B2	CB7 - Students should know how to apply the acquired knowledge and ability to problem solving in new environments or little known within broad (or multidisciplinary) contexts related to their field of study
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
C3	CT3 - Use the basic tools of the information technology and communications (ICT) necessary for the exercise of their profession and lifelong learning
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		
Poseer experiencia real sobre a actividade de investigación ou profesional dentro das empresas ou institucións públicas no ámbito da bioinformática e a informática da saúde	AJ3 AJ6 AJ7	BJ1 BJ2 BJ3 BJ4 BJ5 BJ8	CJ3 CJ5 CJ6 CJ7 CJ8

Contents	
Topic	Sub-topic
Prácticas en empresa	As prácticas realízanse en empresas e institucións do ábito da bioinformñatica e tecnoloxía aplicada as ciencias da vida e da saúde

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
ICT practicals	A3 A6 A7 B1 B2 B3 B4 B5 B8 C3 C5 C6 C7 C8	0	70	70
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
ICT practicals	As prácticas van a depender do tipo de centro onde se leva a cabo o traballo que dependerá tamén do perfil do estudante.

Personalized attention	
Methodologies	Description
ICT practicals	Débese destacar particularmente a importancia do papel do profesor titor, esencial para un axeitado aproveitamento da estancia do estudante, así como para facilitar a relación da Facultade cas empresas colaboradoras.

Assessment			
Methodologies	Competencies	Description	Qualification

ICT practicals	A3 A6 A7 B1 B2 B3 B4 B5 B8 C3 C5 C6 C7 C8	O estudante informará ao titor académico das tarefas que está a realizar. Ao rematar a práctica, o estudante entregará un informe donde enumere e explique en detalle as tarefas realizadas, a contorna tecnológica utilizada -ferramentas, estándares e metodoloxías-, evitando as cuestiones que poidan considerarse confidenciales. A extensión recomendada é de aproximadamente 3 páxinas. O titor profesional entregará un informe avaliando a actividad do estudante. O titor académico avaliará a práctica e emitirá un informe final: - Valoración da memoria: 50% - Valoración do titor profesional: 50% Estas porcentaxes é orientativa e poderá modificarse en función do criterio do titor	100

Assessment comments

Sources of information	
Basic	As plantillas e procesos de petición de empresas realízase a través de Moodle
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Introduction to databases/614522002
Introduction to molecular biology/614522004
Genetics and molecular evolution/614522005
Genomics/614522006
Data structures and algorithmics for biological sequences/614522013
Advanced processing of biological sequences/614522020
New trends and applications in bioinformatics and biomedical engineering/614522021
Biomedical knowledge management /614522022
Design and management of research projects/614522023
Computational intelligence for high dimensional data/614522024
Biomechanical engineering, sensoring and telemedicine/614522014
Fundamentals of neuroscience/614522015
Neuroengineering and innovation in neuroscience/614522016
Health Information Systems/614522017
Advanced medical visualization/614522019
Computational intelligence for bioinformatics/614522012
Fundamentals of bioinformatics/614522008
Advanced statistical methods in bioinformatics/614522009
Analysis of biomedical images/614522010
High performance computing in bioinformatics/614522011
Introduction to programming/614522001
Probability. statistics and elements of biomathematics/614522007
Foundations of Artificial Intelligence/614522003
Subjects that are recommended to be taken simultaneously

Master thesis/614522025
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.