Teaching Guide				
Identifying Data				2021/22
Subject (*)	Biopsychology		Code	652438010
Study programme	Mestrado Universitario en Psicoloxía Aplicada			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	1st four-month period	First	Obligatory	3
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department	Psicoloxía			
Coordinador	Fernandez Garcia, Rosa Maria	E-mail	rosa.fernandez@udc.es	
Lecturers	Fernandez Garcia, Rosa Maria	E-mail	rosa.fernandez@udc.es	
Web				
General description	El estudio de las biopsicología supone un nexo de unión entre dos disciplinas: la psicología y la biología. En este sentido, supone el estudio de la conducta y de los procesos mentales de los individuos atendiendo a sus componentes biológicos. Este acercamiento al estudio del comportamiento humano no pretende explicar por sí solo la totalidad del mismo, ni obviar el papel que desempeñan otros factores. Por el contrario, pretende dar una visión del comportamiento que ha de ser entendida dentro de una perspectiva más global.			
Contingency plan	1. Modifications to the contents 2. Methodologies *Teaching methodologies that are maintained *Teaching methodologies that are modified 3. Mechanisms for personalized attention to students 4. Modifications in the evaluation *Evaluation observations: 5. Modifications to the bibliography or webgraphy			

Study programme competences / results	
Code	Study programme competences / results
A1	To recognize and respect human diversity and to understand that psychological explanations may vary across populations and contexts.
A2	To identify the personal, psycho-social and / or educative factors that may put human health at risk.
A3	Being able to elaborate a scientific report which involves defining a research problem, the hypotheses and variables, and defining the design, the sample and its method of selection, the tools for collecting data and their subsequent analysis and discussion.
A7	Knowing to track on a case by choosing appropriate and realistic objectives.
A8	To know the basis for hypotheses establishment with respect to a particular case, and from them to deduce contrastable statements.
A12	To acquire a basic theoretical knowledge about the state of the art in the different areas involved in applied psychology.
A13	Knowing and being able to use the different models, theories, methods and assessment and intervention techniques that are specific of the different areas of research in Applied Psychology, and developing a critical attitude typical of the scientific spirit.
A18	To show an ethical and professional compromise with respect to civic, social and global responsibilities.
A19	Knowing and complying with the deontologic obligations of Applied Psychology.
B1	Capacity for analysis and synthesis.

B2	Capacity for organization and planning.
B3	Teamwork.
B6	Critical thinking.
B8	Autonomous learning.
B10	Motivation for quality.
B11	Troubleshooting.
C1	To express oneself, both orally and in writing, in the official languages of the autonomous region.
C2	To dominate the expression and understanding of a spoken and written foreign language.
C3	Using the basic tools of information and communication technologies (ICT) necessary for the exercise of the profession and for lifelong learning.
C4	To develop for the exercise of an open, educated, critical, committed, democratic and supportive citizenship, capable of analyzing reality, diagnose problems, develop and deploy solutions based on knowledge and oriented to common good.
C6	To critically assess the knowledge, technology and information available to solve the problems they face.
C7	To assume as professionals and citizens the importance of lifelong learning.
C8	Assessing the importance of research, innovation and technology development in the socio-economic and cultural progress of society.

Learning outcomes			
Learning outcomes	Study programme competences / results		
G1, G2, G3, G6, G8, G10	AR1 AR2 AR3 AR7 AR8 AR12 AR13 AR18 AR19	BR1 BR2 BR3 BR6 BR8 BR10 BR11	CC1 CC2 CC3 CC4 CC6 CC7 CC8
G1, G2, G3, G6, G8, G10	AR1 AR2 AR3 AR7 AR8 AR12 AR13 AR18 AR19	BR1 BR2 BR3 BR6 BR8 BR10 BR11	CC1 CC2 CC3 CC4 CC6 CC7 CC8
G1, G2, G3, G6, G8, G10	AR1 AR2 AR3 AR7 AR12 AR18	BR1 BR2 BR3 BR6 BR8 BR11	CC3 CC6 CC7
E1,E2,E3,E7,E8,E12,E13,E18,E19	AR1 AR2 AR3 AR7 AR12 AR18	BR1 BR2 BR3 BR6 BR8 BR11	CC1 CC2 CC3 CC6 CC8

E1,E2,E3,E7,E8,E12,E13,E18,E19	AR1 AR2 AR3 AR12 AR18	BR1 BR2 BR3 BR6 BR8	CC1 CC2 CC3 CC6 CC7 CC8
E1,E2,E3,E7,E8,E12,E13,E18,E19	AR1 AR12 AR13 AR18	BR1 BR2 BR3 BR6 BR11	CC1 CC2 CC3 CC6 CC7 CC8
N1, N3, N4, N6, N7, N8	AR1 AR12 AR18	BR1 BR2 BR3 BR6 BR8 BR10	CC1 CC3 CC6 CC8
N1, N3, N4, N6, N7, N8	AR1 AR8 AR12 AR13	BR1 BR2 BR3 BR6 BR8	
N1, N3, N4, N6, N7, N8	AR1 AR12 AR13	BR1 BR2 BR3 BR6 BR8	

Contents	
Topic	**Sub-topic**
TEMA 1. Introducción al sistema nervioso	Células del sistema nervioso: neuronas y glía. Estructura del sistema nervioso. Características generales. Sistema nervioso central y sistema nervioso periférico. Plasticidad cerebral
TEMA 2. Biología celular del sistema nervioso	Neurofisiología de la neurona. Potencial de membrana. Potencial de acción. Conducción del potencial de acción.
TEMA 3. Neuroquímica de la transmisión sináptica	La sinapsis. Tipos de sinapsis, elementos de la sinapsis, transmisión del impulso nervioso, potenciales postsinápticos, integración neuronal, autorreceptores.
TEMA 4: Neurotransmisores y neuromoduladores	Acetilcolina, monoaminas, aminoácidos, lípidos. Farmacología de la sinapsis
TEMA 5: Desarrollo del sistema nervioso	Sistema nervioso central y sistema nervioso periférico, partes y funciones
TEMA 6: Alteraciones del sistema nervioso debidas al estrés temprano	Efectos de la experiencia temprana en el desarrollo del sistema nervioso. Plasticidad neuronal, consecuencias del estrés temprano.

Planning				
Methodologies / tests	**Competencies / Results**	**Teaching hours (in-person & virtual)**	**Student?s personal work hours**	**Total hours**
Oral presentation	A1 A2 A3 A7 A8 A12 A13 A18 A19 B1 B2 B3 B6 B8 C4	9	18	27
Document analysis	A3 A18 B10 C1 C2	2	4	6

Workbook	A13 B11 C3 C6 C7	1	10	11
Guest lecture / keynote speech	A7 A8 C8	7	14	21
Objective test	A12	2	4	6
Personalized attention		4	0	4
(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
Methodologies	**Description**
Oral presentation	Elaboración y exposicion de un trabajo, individual o en grupo, relacionado con el programa
Document analysis	Analisis de los ultimos avances cientificos mediante la busqueda bibliografica
Workbook	Bibliografia relacionada con los temas de la asignatura
Guest lecture / keynote speech	Clases magistrales acompañadas de medios y recursos didácticos
Objective test	50 preguntas cortas, con respuestas verdadero-falso

Personalized attention	
Methodologies	**Description**
Document analysis Workbook Oral presentation	Resolucion de dudas, orientación bibliográfica, preparación de trabajos, etc

Assessment			
Methodologies	**Competencies / Results**	**Description**	**Qualification**
Objective test	A12	preguntas tipo test	40
Document analysis	A3 A18 B10 C1 C2	Busqueda y análisis de trabajo de investigación	20
Workbook	A13 B11 C3 C6 C7	Bibliografía recomendada	20
Oral presentation	A1 A2 A3 A7 A8 A12 A13 A18 A19 B1 B2 B3 B6 B8 C4	Trabajo personal sobre un tema	20

Assessment comments
La calificación será el resultado de los siguientes factores: ? Asistencia y participación a las clases teóricas y prácticas, y especialmente a estas últimas ? Calidad de los trabajos tutelados o proyectos de investigación (planificación, elaboración, redacción y análisis de conclusiones) ? Examen final ? Evaluación de otras actividades formativas empleadas, hasta completar la calificación total

Sources of information

Basic	- J P J Pinel (2007). Biopsicologia. PEARSON EDUCACION SA - Kolb Whishaw (2006). Neuropsicologia humana. panamericana - P J Corr (2008). Psicologia Biologica. McGraw-Hill Interamericana
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.