

SUBJECT TEACHING GUIDE

G1925 - Science and Society

Degree in Biomedical Sciences

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Degree in Biomedical Sciences			Type and Year	Core. Year 2
Faculty	Faculty of Medicine				
Discipline					
Course unit title and code	G1925 - Science and Society				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. FISILOGIA Y FARMACOLOGIA
Name of lecturer	MARIA MONTSERRAT CABRE PAIRET
E-mail	montserrat.cabre@unican.es
Office	Facultad de Medicina. Planta: + 2. DESPACHO DE Hª DE LA MEDICINA (PRINCIPAL) (2136)
Other lecturers	FERNANDO SALMON MUÑIZ ISMAEL FUENTE MERINO SILVIA RECIO SARABIA ANA SANTURTUN ZARRABEITIA

3.1 LEARNING OUTCOMES

- Assess the impact of history and culture on the development of the conceptual bases that underpin knowledge in biomedicine.
- Identify forms of legitimizing knowledge in biomedicine.
- Identify the impact of gender and sexual difference in the theory and practice of biomedicine.
- Know how to analyse the politics of organisation of scientific work and its social implications.
- Identify scientific methodology.
- Be capable of assessing the power of information in biomedicine and the social and cultural impact of its public dissemination.
- Know the legal implications and ethical conflicts relating to the management of genetic data bases.
- Know how to apply our normative framework and identify ethical conflicts in the practice of biomedicine.
- Apply IT tools in order to carry out scientific assignments.

4. OBJECTIVES

- Know the impact of history and culture on the development of the conceptual bases that underpin knowledge in biomedicine.
- Know the forms of legitimizing knowledge in biomedicine.
- Know the impact of gender and sexual difference in the theory and practice of biomedicine.
- Know the bases of the politics of organisation of scientific work and its social implications.
- Know the scientific methodology.
- Know the power of information in biomedicine and the social and cultural impact of its public dissemination.
- Understand the legal implications and ethical conflicts relating to the management of genetic data bases.
- Know to acknowledge the legal framework and identify ethical conflicts in the practice of biomedicine.
- Apply IT tools in order to carry out scientific assignments.

6. SUBJECT PROGRAM

CONTENTS

1	The subject consists of theoretical and practical classes. The practical classes have a two-fold nature: computer exercises (managing IT resources for biomedical research) and classroom practical classes (practical cases in bioethics).
2	<ul style="list-style-type: none"> I. Ways of knowing and intervening in nature. II. Origins and development of biomedicine. III. Science and biomedicine: historical, political, cultural and social aspects. IV. Androcentrism, gender and biomedicine. V. Bioethics and law. VI. Ethical conflicts in research and in the clinic. VII. Responsible research and innovation. VIII. Scientific documentation and its sources. IX. The presentation of a scientific piece of work.

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Assessment of the content knowledge of the theoretical programme	Written exam	Yes	Yes	60,00
Assessment of the skills acquired in the practical programme via continuous assessment and an assessment test.	Others	No	No	30,00
Assessment of a piece of work to be developed, proposed in the duration of the academic year.	Others	No	No	10,00
TOTAL				100,00
Observations				
Observations for part-time students				
Single assessment with an exam and a piece of work to be handed in.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS
BASIC
Beauchamp, Tom .L.; Childress, James F. Principios de ética biomédica. Barcelona: Masson, 2002.
Bucchi, Massimiano; Trench, Brian, eds. Routledge Handbook of Public Communication of Science and Technology . London, Routledge, 2019.
Cabré, Montserrat; Salmón, Fernando, eds. Sexo y género en medicina. Una introducción a los estudios de las mujeres y de género en ciencias de la salud. Santander: Universidad de Cantabria, 2013.
Casado, María, ed. Bioética, derecho y sociedad. Madrid: Trotta, 2015.
Collins, Harry; Pinch, Trevor. El gólem: lo que todos deberíamos saber acerca de la ciencia. Barcelona: Crítica, 1996.
Hackett, Edward J. et al., eds., The Handbook of Science and Technology Studies, 3ª ed., Cambridge, MA: MIT Press, 2007.
Pestre, Dominique. Ciencia, dinero y política. Buenos Aires: Ediciones Nueva Visión, 2005.
Romero de Pablos, Ana; Santesmases, María Jesús, eds. Cien años de política científica en España. Bilbao: Fundación BBVA, 2008.
Barona Vilar, Josep Lluís, coord. Manual de historia de la medicina. València: Tirant Humanidades, 2023.