

## SUBJECT TEACHING GUIDE

G1925 - Science and Society

Degree in Biomedical Sciences

Academic year 2023-2024

| 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  |
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| Other lecturers  | FERNANDO SALMON MUÑIZ<br>ISMAEL FUENTE MERINO<br>SILVIA RECIO SARABIA<br>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"> <li>I. Ways of knowing and intervening in nature.</li> <li>II. Origins and development of biomedicine.</li> <li>III. Science and biomedicine: historical, political, cultural and social aspects.</li> <li>IV. Androcentrism, gender and biomedicine.</li> <li>V. Bioethics and law.</li> <li>VI. Ethical conflicts in research and in the clinic.</li> <li>VII. Responsible research and innovation.</li> <li>VIII. Scientific documentation and its sources.</li> <li>IX. The presentation of a scientific piece of work.</li> </ul> |

| 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.  |