

69723 - Interdisciplinary seminar

Syllabus Information

Academic year: 2023/24

Subject: 69723 - Interdisciplinary seminar

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

Degree: 633 - Master's Degree in Biomedical Engineering

ECTS: 3.0

Year:

Semester: Second semester

Subject type: Optional

Module:

1. General information

Given the great diversity of topics in biomedical engineering, it is very difficult to have neither subjects nor experts in all topics in a limited program such as this master's program. For this reason, this subject dynamically allows the presentation of various topics that are relevant to the discipline and that are not fully covered in the master's degree syllabus.

<https://www.un.org/sustainabledevelopment/es/>. These goals are aligned with the Sustainable Development Goals (SDGs) of the United Nations Agenda 2030 (<https://www.un.org/sustainabledevelopment/es/>), so that the acquisition of the learning results of the subject provides training and competence to contribute to some extent to their achievement:

Goal 3: Ensure Healthy Lives and Promote Wellness for All at All Ages (Objective 3.3).

Goal 9: Industry, Innovation and Infrastructure (Objective 9.5).

2. Learning results

Upon completion of this subject, the student will be able to:

Follow and interact with an expert on a specific topic, in a course or seminar, given in Spanish or English, on topics related to research or other competences of a biomedical engineer.

Make a critical evaluation of the seminar, its approach and their own use of it.

3. Syllabus

The program will change from year to year. Each seminar session will last between one and two hours. Seminars will range from short, single-session seminars to intensive, multi-session courses.

In addition to seminars given by prestigious researchers, there will be scheduled other seminars to provide a better understanding of the work of the biomedical engineer (in a research group, in a hospital, in a company) and to acquire cross-cutting skills (e.g. how to present a scientific paper).

4. Academic activities

The program includes the following activities:

A.01. Master Class (20 hours): seminars will generally be given by guest lecturers in the form of a master class.

A.03. Laboratory practices (4 hours). Laboratory practices included in some of the seminars.

A.04. Special practices (6 hours). Some of the programmed activities consist of visits to certain external services and laboratories (hospitals or research centres). If in extraordinary situations these activities cannot be carried out, they will be substituted by seminars.

A.05. Completion of the activities proposed in the seminars and the work of the subject.

5. Assessment system

The student must demonstrate achievement of the intended learning results through the following assessment activities:

Continued attendance to the seminars will be required to pass the subject. There will be a minimum number of sessions, to be specified each year according to the total number of sessions scheduled.

The student must perform the practical work proposed, if applicable, in each seminar, and submit a critical report of each of the seminars, that should at least include:

- Knowledge gained as a result of the seminar
- The application domains related to the student's interest.
- A critical judgment of the seminar and the topics covered in it, based on the rest of the master's program.

In order to pass the subject the student must ask at least one question during one of the mandatory seminars.

The final evaluation of the subject will take into account attendance, participation in the seminars, the number of seminar reports completed and the quality of the same.