Universidad Rey Juan Carlos

TEACHING GUIDE

EXTERNAL PRACTICES 2 (BIOMEDICAL TECHNOLOGY TRANSFER)

GRADO EN INGENIERÍA BIOMÉDICA (INGLÉS) (3º y 4º curso) (2374)

ACADEMIC YEAR 2026-27

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I.-Subject Identification	
Type	OBLIGATORIA
Teaching period	4 course, annual
Nº of credits	9
Language in wich the subject is taught	English

II.-Presentation

The External Practices course is a curricular subject with the objective of promoting comprehensive training of the student, through the practical application of the knowledge acquired while studying the Degree, facilitatingdirect contact with professional activity and the opportunity to join the professional world with a minimum of experience. All internships are designed so that the students who participate in them acquire a professional experience in real situations and conditions, applying the knowledge, skills and attitudes that are acquired in the different training processes throughout the degree. The internships represent a decisive opportunity for personal and future professional development of the student. Internships are activities carried out by the student in companies, institutions, and organizations, that is, in centers outside the university units, which aim to enrich and complement university training, while providing the students with a deeper knowledge about the skills that they will need once graduated. The External Practices subject is compulsory and will be taken preferably during the fourth year of the Degree. The duration of the curricular internships will be a minimum of 225 hours, and the extracurricular ones can be extended to the maximum in accordance with current regulations. The academic tutor of the course is responsible for monitoring the student during the internship, supervising itsquality and adequacy, and evaluating the course upon completion, based on the final report of the tutor in the company and the final report prepared by the student. Academic tutors this year are: •Norberto Malpica González de Vega. •Sergio Muñoz

III.-Learning outcomes

CG07. Work in a multidisciplinary group of engineers and biomedical scientists.
CB1. Proven knowledge and understanding of an area of study based on general secondary education and at a level which, although supported by advanced text books, also includes certain aspects that imply knowledge from the forefront of the field of study.
CB3 . That students have the ability to gather and interpret relevant data (usually within their field of study) to express judgments that include a reflection on relevant topics related to social, scientific or ethical areas.
CB4 . That students are able to transmit information, ideas, problems and solutions to both specialized and non-specialized audience.
CE11. Identify, use and adapt telecommunication technologies that offer reasonable solutions to biomedical engineering problems
CE26. Apply business knowledge for the creation and management of biotechnology-based companies and knowledge transfer in the field of bioengineering

- Key for degrees not adapted to RD 822/21: **CB** - basic competences, **CG** - generic competences, **CE** - specific competences, **CT** - transversal competences.
- Key for degrees adapted to RD 822/21: **CON** - knowledge, **COM** - competences, **HAB** - skills.

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IV.-Contents

IV.A.-Syllabus

Internships are activities carried out by the student in companies, institutions and organizations; that is, in centers outside the university departments. The aim is to enrich and complement your university training, providing a deeper understanding of the skills you will need once you have graduated. Rey Juan Carlos University, through the External Practices Unit, currently counts with more than 6,000 private and public entities that host internship programs for their students, with the number of institutions signing collaboration agreements with URJC increasing every year.

IV.B.-Training activities

Type	Title
Other activities	Individual work in External Practices. Carrying out different tasks during internships with external organizations, public or private companies or institutions.

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V.-Student workload	
Theoretical sessions	0
Resolution of exercises, problems, case studies, etc.	0
Practical sessions in experimental, technological and clinical laboratories, fieldwork, etc.	243
Tests and/or exams	0
Academic tutorials	2
Related activities: conferences, seminars, etc.	0
Preparation of theoretical sessions and self-study	0
Preparation of practical tasks, exercises, case studies, projects, etc.	25
Preparation for tests and/or exams	0
Total student workload	270

VI.-Methodology and academic programme

Type	Period	Content
Week 1 to Week 16	Practical work at the Company / Research Center where the internship is taking place	Academic tutorials

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VII.-Assessment methods

The general assessment method is continuous as established in the *Regulation for the Assessment of Learning Outcomes* of Rey Juan Carlos University.
All the assessment systems established in the degree report must be employed, except for those that have a minimum weight of 0%, which can be used by professors in the academic years they consider relevant. Each assessment system may be applied through one or more assessment activities, consistent with the system. No assessment activity can exceed individually 60% of the overall grade for the subject.
The sum of non re-evaluable activities cannot exceed 40% of the overall grade for the subject and, in general, should not have an established minimum grade (except for practical activities in which, strictly speaking, the conditions of the ordinary call cannot be reproduced in the extraordinary call).
Those students who do not manage to pass the subject in the ordinary call, or do not attend this first call, may attend the extraordinary call only for failed re-evaluable assessment activities.
The distribution and characteristics of the assessment activities are described below.

VII.A.-Description and weight of the assessment activities

The External Practices course will be evaluated through the following items:
• Student self-assessment questionnaires (at intermediate and end points, submitted through the platform).
•Evaluation report submitted by the person in charge of the student in the external institution (at the end of the internship).
•Internship report or presentation (sent to the degree internship tutor through the platform).
It is recommended to keep in touch through Teams (Internship Group and messaging and communication with the academic tutor), as the main means of contact.

VII.B. Assessment of students with academic exemption from class attendance

Having Academic Exemption from Class Attendance (DAAC) does not imply that students are automatically exempt from participating in the continuous assessment activities or in the training activities of compulsory attendance as established in the teaching guide. Once the exemption has been granted, students must contact the subject's teaching staff, who will propose the adaptations he/she may consider relevant, as long as they guarantee the acquisition and adequate assessment of the learning goals established. Students must maintain adequate communication with the teaching staff so that they may provide information on the dates for training and assessment activities, if these are not established in the programme and available for students at the time of achieving the exemption.
Subject with possibility of academic exemption: Yes.

VII.C. Review of assessment activities

In accordance with the Regulation for the Assessment of Learning Outcomes of Rey Juan Carlos University.

VII.D.-Students with a disability or special educational needs

In order to guarantee equal opportunities, non-discrimination, universal accessibility and academic success, students with disabilities or especial education needs may request curricular adaptations to follow their studies. These adaptations will be provided by the Unit of Attention to People with Disabilities of Rey Juan Carlos University, in accordance with the regulation which regulates the service for the Attention of People with Disabilities at the University. This Unit will issue a report for curricular adaptations, so that students with disabilities or special education needs must contact the service (at e-mail discapacidad.programa@urjc.es) in order to provide relevant information for different educational alternatives.

VII.E.-Academic behaviour, academic integrity and honesty

Rey Juan Carlos University is fully committed to the highest standards of academic integrity and honesty, so studying at the URJC means assuming and subscribing to the values of integrity and academic honesty set out in the University's Ethical Code. To support this process, the University has Rey Juan Carlos University's Academic Conduct Regulation as well as different tools (anti-plagiarism, supervision...) that offer a collective guarantee for the full development of these essential values.

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VIII.-Teaching resources and materials

Basic bibliography

Descripción y normativa de la asignatura Prácticas Externas de la URJC:
https://www.urjc.es/images/Empresa/practicas_externas/Practicas_Externas.pdf
Acceso a la aplicación para alumnos: https://www.urjc.es/empresas-e-instituciones/1458-practicas-externas-alumnos

Consultation bibliography

IX.-Professors

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