Information about the subject

Degree: Bachelor of Science Degree in Biotechnology

Faculty: Faculty of Veterinary Medicine and Experimental Sciences

Code: 1104401 **Name:** Final Bachelor's Degree Project

Credits: 12,00 **ECTS Year:** 4 **Semester:** 2

Module: Final Degree Project

Subject Matter: Final Degree Project **Type:** Final Degree Project

Field of knowledge: Ciencias

Department: Biotechnology

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

Final Degree Project

Subject Matter	ECTS	Subject	ECTS	Year/semester
Internship	6,00	Internship	6,00	4/2
Final Degree Project	12,00	Final Bachelor's Degree Project	12,00	4/2

Recommended knowledge

To enroll in the course, the student must have passed 75% ECTS from the 1st to 3rd year (a minimum of 135 ECTS)To perform the public defense, the student must have passed 90% of the other subjects of the Grade (216 ECTS)

Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

R1	The student has completed a project based on research, development or review of new basic and/or applied knowledge in any aspect of Biotechnology.
R2	The student has learned how to compile, analyze and present scientific and/or technical data.
R3	The student has prepared and submitted a detailed report on the work he/she did in a suitable layout.
R4	The student has developed some skills in the selective and appropriate use of bibliographic sources, including database search tools.
R5	The student is able to reference bibliographic sources correctly and consistently.
R6	The student is able to present his/her work orally in a correct and clear manner and within the time agreed.
R7	The student is able to respond to questions related to the background of the Project and its scientific context, the methodology used (either experimentally or from the analyzed scientific literature) and the presented results (either his/her own or from the analyzed scientific literature).
R8	The student has developed a critical spirit with regard to appropriate controls, conclusions reached, the continuation of the project and possible future lines of research or development.
R9	The student interprets and understands the data presented in a scientific-technical work, identifying the most outstanding characteristics of the work and being able to write a summary, or abstract, with a maximum length of 250-300 words.
R10	The student applies, in a global way, the knowledge and competencies worked during the degree.

Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB1	Students acquire and understand knowledge in their field of study based on general secondary education but usually reaching a level that, although supported on advanced text books, also includes aspects involving state-of-the-art knowledge specific to their area.				x
CB2	Students are able to apply knowledge to their work in a professional way and have the competences enabling them to state and defend views and opinions as well as perform problem-solving tasks in their field of study.				x
CB3	Students are able to collect and interpret relevant data (generally in their field of study) and give opinions that involve reflection on relevant social, scientific or ethical issues.				x
CB4	Students can communicate information, ideas, problems and solutions to a specialized or non-specialized audience.				x
CB5	Students develop the necessary learning skills to undertake further studies with a high level of autonomy.				x

GENERAL		Weighting			
		1	2	3	4
CG01	Capacity to analyze and synthesize.				x

SPECIFIC		Weighting			
		1	2	3	4
CE22	Knowing and understanding contents, principles and theories related to biotechnology.				x

CE23	Knowing how to use laboratory equipment and to carry out basic operations for each discipline including: safety measures, handling, waste disposal and activity register.				x
CE24	Knowing basic and instrument laboratory techniques in the different areas of biotechnology.				x
CE25	Knowing how to analyze and understand scientific data related to biotechnology.				x
CE27	Knowing and applying action plans and assessment criteria of biotechnology processes.			x	
CE28	Integrating life science and Engineering into processes of development of biotechnological products and applications.				x
CE29	Contrasting and checking results of biotechnological experimentation.				x
CE30	Solving and analyzing problems posed by biotechnology.				x
CE31	Describing and calculating important variables of processes and experiments.				x
CE32	Knowing how to use different specific operating systems and software packages designed for Biotechnology.				x
CE33	Knowing and complying with legislation and ethics of biotechnological processes and applications.			x	
CE34	Knowing main characteristics of Molecular biosciences and biotechnology communication.				x

TRANSVERSAL		Weighting			
		1	2	3	4
CT02	Capacity to organize and plan.				x
CT03	Mastering Spanish oral and written communication.				x
CT05	Knowing and applying Basic ITC skills related to Biotechnology.				x
CT06	Capacity to manage information (capacity to look for and analyze information coming from different types of sources).				x
CT07	Problem solving.				x

CT08	Decision making			x
CT09	Capacity to work in interdisciplinary and multidisciplinary team.		x	
CT10	Interpersonal skills.		x	
CT11	Understanding multicultural and diverse environment		x	
CT12	Critical and self-critical capacity.			x
CT13	Ethics.	x		
CT14	Capacity to learn			x
CT15	Capacity to adapt to new situations			x
CT16	Capacity to produce new ideas (creativity)			x
CT17	Leadership abilities			x
CT18	Taking initiatives and enterprising spirit			x
CT19	Capacity to apply theoretical knowledge			x
CT20	Research skills			x
CT21	Sensitivity to environmental issues			x

Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5, R9, R10	50,00%	Written report on the Degree's Final Project
R1, R2, R6, R7, R8, R10	40,00%	Oral presentation
R1, R2, R10	10,00%	Participation in tutorials and seminars

Observations

According to the general evaluation and qualification regulations, the preferred evaluation system will be by means of continuous evaluation:

The preparation of the final report has gradable deliveries during the semester as a measure to be prepared for the final exam.
a The written report and oral defense will be evaluated by a committee formed by UCV lecturers .
b The oral defense can be performed in English
c This item will be evaluated by the UCV mentor

MENTION OF DISTINCTION:
In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with 9 Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

M4 Supervised monographic sessions with shared participation..

M6 Personalized and small group attention. Period of instruction and/or guidance carried out by a tutor to review and discuss materials and topics presented in classes, seminars, readings, papers, etc.

M7 Set of oral and/or written tests used in initial, formative or additive assessment of the student

M9 Student's study: Individual preparation of readings, essays, problem-solving, seminars, papers, reports, etc. to be presented or submitted in theoretical, practical and/or small-group tutoring sessions. Work done on the university e-learning platform.

IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
SEMINAR M4	R2, R3, R4, R9	2,00	0,08
TUTORIAL M6	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10	44,00	1,76
ASSESSMENT M7	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10	4,00	0,16
TOTAL		**50,00**	**2,00**

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
AUTONOMOUS INDIVIDUAL WORK M9	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10	250,00	10,00
TOTAL		**250,00**	**10,00**

Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
Seminars	Seminar 1. Final Degree Project guidelines. Seminar 2. Final Degree Project written report preparation . Seminar 3. Tools for public presentation of final Degree Projects
Individual tutorship	Individual tutoring

Temporary organization of learning:

Block of content	Number of sessions	Hours
Seminars	1,00	2,00
Individual tutorship	22,00	44,00

References

·González García, J.M.; León Mejía, A.; Peñalba Sotorrío, M. (2014) Cómo escribir un trabajo de fin de grado: algunas experiencias y consejos prácticos. Madrid: Síntesis. 199 pp
·García Sanz, M.P.; Martínez Clares, P. (2012) Guía práctica para la realización de trabajos fin de grado y trabajos fin de máster. Murcia: Editum. 387 pp
·Ferrer. V.; Carmona, M.; Soria, V. (2012) El trabajo de Fin de Grado: guía para estudiantes, docentes y agentes colaboradores. Madrid: McGraw-Hill. 196 pp