

Degree	Type	Year	Semester
4313771 Plant Biology and Biotechnology	OB	0	2

Contact

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Teachers

Josep Allué Creus

Use of languages

Principal working language: english (eng)

Prerequisites

Basic knowledge on experimental work

Objectives and Contextualisation

Preparation and public defense of a final dissertation on a topic related to Plant Biology and Biotechnology where the student can integrate the skills and competences acquired in the master.

Skills

- Analyse research results to obtain new products or processes, assessing their industrial and commercial viability with a view to transferring them to society.
- Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
- Conceive, design, manage and develop a scientific, technical or industrial project in biology and biotechnology of plants and fungi, interpreting findings and generating knowledge.
- Continue the learning process, to a large extent autonomously
- Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
- Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
- Synthesise, weigh up alternatives and engage in critical discussion.
- Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.
- Use and manage bibliography and IT resources in the field of study.
- Use scientific terminology to account for research results and convey these in spoken and written English in an international context.
- Work in a multidisciplinary team.

Learning outcomes

1. Analyse research results to obtain new products or processes, assessing their industrial and commercial viability with a view to transferring them to society.

2. Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
3. Continue the learning process, to a large extent autonomously
4. Critically analyse experimental data from the analyses made, discuss the limitations of the techniques used and propose improvement measures.
5. Design and carry out a research project in the field of biology and plant biotechnology.
6. Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
7. Orally present the results and conclusions of the project in a clear, concise way.
8. Present the results and conclusions of the project in a clear, concise scientific report.
9. Propose innovative projects in biology and plant biotechnology, starting from a holistic perspective on the knowledge acquired.
10. Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
11. Synthesise, weigh up alternatives and engage in critical discussion.
12. Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.
13. Use and manage bibliography and IT resources in the field of study.
14. Use scientific terminology to account for research results and convey these in spoken and written English in an international context.
15. Work in a multidisciplinary team.

Content

Preparation and defense of the final master thesis on a subject related to Plant Biology and Biotechnology, where the student can integrate the different skills and competences acquired during the master.

Methodology

- Personal study
- Read and analyze articles / reports of interest
- Laboratory and/or field Practices
- Development of memory Final Master thesis
- Tutoring

Activities

Title	Hours	ECTS	Learning outcomes
Type: Supervised			
Lab and/or field experimentation	100	4	5, 11, 9, 8, 4, 7, 10, 2, 6, 12, 13, 14
Type: Autonomous			
Personal study, consultation of bibliography and elaboration of final master thesis	274	10.96	5, 11, 9, 8, 4, 7, 10, 2, 6, 3, 12, 13, 14

Evaluation

- Report of Final Master (40%)
- Public oral defense of the Master Thesis (30%)
- Report of Tutor (30%)

Evaluation activities

Title	Weighting	Hours	ECTS	Learning outcomes
Public oral defense of final master thesis	30%	1	0.04	5, 1, 11, 8, 10, 2, 12, 14
Report of final master thesis	40%	0	0	5, 9, 4, 2, 6, 3, 12, 13, 14
Tutor's report	30%	0	0	5, 11, 15, 9, 7, 13

Bibliography

Monographs and journals specific for the topic of Master Thesis work

Databases:

Thomson ISI Web of Science

Scopus