

MASTER'S DEGREE IN CIRCULAR ECONOMY

CIRCULAR EXPERIENCES

Learning Guide – Information for the student

DESCRIPTIVE DATA

SUBJECT:	CIRCULAR EXPERIENCES (133000214 y 133000216)
EUROPEAN CREDITS:	3 ECTS
TYPE:	MANDATORY
DEGREE:	Master's Degree in Circular Economy
COURSE/SEMESTER	COURSE 2, SEMESTER 2 (spring semester)
SPECIALTY:	Consumption and Sustainable Management of Natural Capital – Mineral and Construction Products

ACADEMIC COURSES	2024-2025, and following		
PRIORITY TEACHING PERIOD	September - January	February - June	
		X	
LANGUAGE DELIVERY	Spanish only	English only	Both
		X - priority	(X)

DEPARTMENT:	INGENIERIA AGROFORESTAL (ETSIAAB)	
TEACHING STAFF		
NAME AND SURNAME	OFFICE	Email
Justo García Navarro (Coordinator)	Dpto. Agroforestry Engineering, Construction Unit (ETSIAAB)	justo.gnavarro@upm.es

PREREQUISITES REQUIRED TO TAKE THE SUBJECT

To have passed at least 30 ECTS of the Master's Degree.

CONTENTS OF THE SUBJECT

The course Circular Experiences forms, together with the course Internships in Industry or RTO, the Module INTERNSHIP IN INDUSTRY OR RTO, whose main objective is to offer students the opportunity to combine the theoretical knowledge acquired at the university with others of eminently practical content. They are carried out in a professional context, in direct contact with the industrial sector.

This course is concentrated into one week, between the fall and spring semesters, and consists of a variety of activities (visits, seminars, field trips, lectures, etc.) designed in collaboration with companies and organizations that support the master's program.

Since this subject brings together students from the two specialties of the Master in Circular Economy - Consumption and Sustainable Management of Natural Capital, and Minerals and Construction Products -, in a single group, the activities are developed and taught primarily in English. The B2 level required of all Master's students at the Universidad Politécnica de Madrid must be sufficient for students of the subject to follow it without difficulty.

SUBJECT LEARNING OUTCOMES

The aim of this course is for students to put into practice the specific skills acquired in the other subjects of the programme, and to develop general skills, interacting with professionals and experts in the sector, in an international context.

Likewise, it is intended to promote growth in social, civic and sustainability skills (SOCg skills), framing the subject within the scope of the EELISA Alliance of Universities and the objectives of its CIRCULAR Community, clearly aligned with the Sustainable Development Goals (SDGs) of the United Nations and with the interests of the master's degree.

LEARNING OBJECTIVES

COMPETENCES AND LEVEL ASSIGNED TO THE SUBJECT		
CODE	COMPETENCES	LEVEL
BASIC COMPETENCES		
CB6	To possess and to understand knowledge that provides a foundation or opportunity to be original in the development and/or application of ideas, often in a research context.	MEDIUM
CB7	That students know how to apply the knowledge acquired and their ability to solve problems in new or little-known environments within broader (or multidisciplinary) contexts related to their area of study.	HIGH
CB8	That students are able to integrate knowledge and face the complexity of formulating judgments based on information that, being incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments.	HIGH
GENERAL COMPETENCES		
CG2	The student will be able to use the necessary tools to carry out the changes in the company and in society to adopt a circular economy model.	HIGH
TRANSVERSAL COMPETENCES		
CT3	The student will have the ability to manage information from various sources, assessing its relevance, reliability and pertinence for a specific purpose, analysing and organizing it.	HIGH
CT4	The student will have the ability to propose creative and original alternatives, assessing their viability in solving problems.	MEDIUM
CT5	The student will have the ability to plan and organize work and projects, establishing objectives and programming, assigning tasks and resources and taking responsibility for correct decision-making.	MEDIUM
COMPETENCIAS ESPECIFICAS		
CE12	The student will develop professional and/or research work in the field of the circular economy.	HIGH

SUBJECT DEVELOPMENT

	DATE AND TIME	ACTIVITY	TYPE
	Before 20260119	Registration Process (online questionnaire).	Non-attendance activity
	Before 20260119	Pre-self-assessment of personal competences, SOCg competences (online questionnaire).	Non-attendance activity
MUEC WEEK	A1	Mon 20260119 10:00 – 16:00 ACTIVITY 1 Visit to the Nfq headquarters. Workshop.	Face-to-face activity
	A2	Tues 20260120 10:00 – 14:00 ACTIVITY 2 Visit to the Eduardo Torroja Institute of Construction Sciences (IETcc).	Face-to-face activity
	A3	Wed 20260121 10:00 – 15:00 ACTIVITY 3 NEDGIA Seminar – CIRCULAR ECONOMY.	Face-to-face activity
	A4	Thurs 20260122 9:30 – 14:00 ACTIVITY 4 Visit to the SAINT-GOBAIN PLACO factory (San Martín de la Vega, Madrid).	Face-to-face activity
	A5	Fri 20260123 7:00 – 23:30 ACTIVITY 5 Visit to the Very low, low and medium activity waste storage centre of the National Radioactive Waste Company (ENRESA). El Cabril, Hornachuelos, Córdoba.	Face-to-face activity
	From 20260119 to 20260130	Reports on the activities: students will report on the activities carried out according to the format established.	Non-attendance activity
	After reporting the activities and until 20260130	Post-self-assessment of personal competences, SOCg competences (online questionnaire).	Non-attendance activity
	Before 20260131	The 24-25 MUEC Week - Circular Experience feedback questions (online questionnaire).	Non-attendance activity

	DATE AND TIME	ACTIVITY	TYPE
A01	(during the academic year)	ACTIVITY 01 This activity is one of the Complementary Activities of the CCEE course which, at the proposal of the teachers of the program and enabled by the Coordinator of the subject, will be included in the list of alternative activities enabled for this purpose.	Face-to-face activity
A02	(during the academic year)	ACTIVITY 02 Same as ACTIVITY 01.	Face-to-face activity

OTHERS

Students will follow the course by carrying out the activities and progressive assessment reports. These will first assess their attitude: that is, their effort, initiative, interest, involvement and willingness to achieve the learning objectives set. In addition, they must report on the activities carried out during the MUEC Week individually, emphasizing the conclusions and learning from each visit or seminar, and the applicability of the knowledge acquired in their future professional activity. The set of respective reports will constitute the coursework which will be submitted for evaluation.

Reports on activities the student did not attend will not be accepted.

The supplementary activities to which students are invited will also require the submission of a report summarizing their conclusions and lessons learned.

EVALUATION

Students will receive instructions on how to complete reports on the activities carried out, as well as a series of questionnaires that will facilitate the self-assessment process in personal skills, before and after the development of the Circular Experience. These tools will allow them to visualize their use based on the growth in those skills that each one sets as an objective.

This subject is part of the Internship in Industry or RTO course, so the program must necessarily be followed continuously, without the possibility of attending a global evaluation directly.

SUMMATIVE EVALUATION			
BRIEF DESCRIPTION OF ASSESSABLE ACTIVITIES	MOMENT	PLACE	WEIGHT IN THE MARK
Participation / attitude	Continued	Face-to-face / online	20%
Attendance at activities and seminars	Continued	Face-to-face / online	30%
Course works	Punctual	Face-to-face / online	50%

The activities of the five days of the MUEC Week will be evaluated separately, each one being assigned a weight of 20% in the final grade. That is, for each activity a maximum score of 2 points can be achieved, which will then be weighted according to the table above, representing 80% (30%+50%) for attendance at activities and completion of the course works.

Throughout the academic year, and at the suggestion of the master's program faculty, supplementary activities may be scheduled, and participation in these must be duly documented. These activities, which cannot be linked to other subjects in the program and must be of particular interest to the students, may be considered for assessment, with a limit of two activities.

ATTENDANCE

Students are encouraged to participate in all activities scheduled during MUEC Week, bearing in mind that, depending on the weight of each activity in the final evaluation, students who do not participate in at least three of the activities of MUEC Week (understanding participation as full attendance at the visit or seminar) will not be able to pass the subject.