

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CB06	1.2	30	N	-	
Class Attendance (practical) [ON-SITE]	Problem solving and exercises	CB07 CB08	0.6	15	N	-	
Writing of reports or projects [OFF-SITE]	Self-study	CB10 CE03 CG05	1.2	30	N	-	
Study and Exam Preparation [OFF-SITE]	Self-study	CG05 CT03	2.4	60	N	-	
Project or Topic Presentations [ON-SITE]	Assessment tests	CB09	0.04	1	Y	Y	
Individual tutoring sessions [ON-SITE]	Guided or supervised work	CB10	0.52	13	N	-	
Final test [ON-SITE]	Assessment tests	CB07 CB08 CB09 CB10 CE03	0.04	1	Y	Y	
Total:			6	150			
Total credits of in-class work: 2.4			Total class time hours: 60				
Total credits of out of class work: 3.6			Total hours of out of class work: 90				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System

Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Final test	40.00%	50.00%	Regular tests
Assessment of problem solving and/or case studies	10.00%	0.00%	Exercises to support the main concepts
Projects	50.00%	50.00%	Oral presentation of a case study
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

9. Assignments, course calendar and important dates

Not related to the syllabus/contents	
Hours	hours
Writing of reports or projects [AUTÓNOMA][Self-study]	75
Unit 1 (de 5): Linear programming	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	15
Unit 2 (de 5): Non-linear programming	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	15
Unit 3 (de 5): Calculus of Variations	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	15
Unit 4 (de 5): Optimal control	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	15
Unit 5 (de 5): Variational methods for non-linear analysis	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	15
Global activity	
Activities	hours
Writing of reports or projects [AUTÓNOMA][Self-study]	75
Class Attendance (theory) [PRESENCIAL][Lectures]	75
Total horas: 150	

10. Bibliography and Sources

Author(s)	Title/Link	Publishing house	City	ISBN	Year	Description
Pablo Pedregal	Introduction to Optimization	Springer		0-387-40398-1	2004	