

**1. General information****Course:** THE NATURAL ENVIRONMENT I: TEACHING PHYSICS AND CHEMISTRY**Code:** 46323**Type:** CORE COURSE**ECTS credits:** 6**Degree:** 308 - BACHELOR'S DEGREE IN PRIMARY EDUCATION (TO)**Academic year:** 2019-20**Center:** 104 - FACULTY OF EDUCATION OF TOLEDO**Group(s):** 40 41**Year:** 3**Duration:** C2**Main language:** Spanish**Second language:** English**Use of additional languages:****English Friendly:** Y**Web site:****Bilingual:** N**Lecturer:** GABRIEL RODRIGUEZ RODRIGUEZ - Group(s): 40 41

Building/Office	Department	Phone number	Email	Office hours
Sabatini / 1.27	FÍSICA APLICADA	926051538	gabriel.rrodriguez@uclm.es	Martes 10-13h Miércoles 11-14h

2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

Not established

4. Degree competences achieved in this course**Course competences**

Code	Description
CB01	Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge.
CG09	Effectively deal with language learning in multicultural and plurilingual contexts. Encourage pupils to read and critically assess texts from different scientific and cultural domains within the school curriculum.

5. Objectives or Learning Outcomes**Course learning outcomes**

Not established.

Additional outcomes**6. Units / Contents****Unit 1:**

Unit 1.1

Unit 1.2

Unit 2:

Unit 2.1

Unit 2.2

Unit 2.3

Unit 2.4

Unit 2.5

Unit 2.6

Unit 3:

Unit 3.1

Unit 3.2

Unit 4:

Unit 4.1

Unit 4.2

Unit 4.3

Unit 5:

Unit 5.1

Unit 5.2

Unit 6:**Unit 7:****Unit 8:****7. Activities, Units/Modules and Methodology**

		Related Competences						
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Training Activity	Methodology	(only degrees before RD 822/2021)	ECTS	Hours	As	Com	R	Description
Class Attendance (theory) [ON-SITE]	Lectures	CB01 CG09	1.4	35	N	-	-	
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	CB01 CG09	0.28	7	N	-	-	
Writing of reports or projects [OFF-SITE]	project-based learning	CB01	1.4	35	Y	Y	Y	
Writing of reports or projects [OFF-SITE]	Cooperative / Collaborative Learning	CB01 CG09	0.8	20	Y	Y	N	
Project or Topic Presentations [ON-SITE]	Group Work	CB01	0.64	16	Y	Y	N	
Study and Exam Preparation [OFF-SITE]	Self-study		1.4	35	Y	N	Y	
Final test [ON-SITE]	Assessment tests	CB01 CG09	0.08	2	Y	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

R: Rescheduling training activity

8. Evaluation criteria and Grading System			
Evaluation System	Grading System		Description
	Face-to-Face	Self-Study Student	
Assessment of problem solving and/or case studies	15.00%	0.00%	
Assessment of active participation	20.00%	0.00%	
Final test	30.00%	0.00%	
Oral presentations assessment	15.00%	0.00%	
Self Evaluation and Co-evaluation	10.00%	0.00%	
Assessment of problem solving and/or case studies	10.00%	0.00%	
Total:	100.00%	0.00%	

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	7
Writing of reports or projects [AUTÓNOMA][project-based learning]	35
Writing of reports or projects [AUTÓNOMA][Cooperative / Collaborative Learning]	20
Project or Topic Presentations [PRESENCIAL][Group Work]	16
Study and Exam Preparation [AUTÓNOMA][Self-study]	35
Final test [PRESENCIAL][Assessment tests]	2
Unit 1 (de 8):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Unit 2 (de 8):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	6
Unit 3 (de 8):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Unit 4 (de 8):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Unit 5 (de 8):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Unit 6 (de 8):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Unit 7 (de 8):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Global activity	
Activities	hours
Project or Topic Presentations [PRESENCIAL][Group Work]	16
Study and Exam Preparation [AUTÓNOMA][Self-study]	35

Class Attendance (theory) [PRESENCIAL][Lectures]	35
Writing of reports or projects [AUTÓNOMA][project-based learning]	35
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	7
Writing of reports or projects [AUTÓNOMA][Cooperative / Collaborative Learning]	20
Final test [PRESENCIAL][Assessment tests]	2
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Isabel Pilar Gallardo	Física y Química , 2 tomos 3º ESO y 4º ESO	Oxford Educación Instituto Nacional de Tecnologías Educativas y de Formación del Profesorado del Ministerio de Educación, Cultura y Deporte.			2010	Centro para la innovación y el desarrollo de la educación a distancia.
Jesús M. Muñoz Calle Luís Ramírez Vicente Joaquín Recio Miñarro José Luís San Emeterio Peña Inmaculada Sevilla Pascual José Villasuso Gato	4º ESO Física y Química http://recursostic.educacion.es/secundaria/edad/4esofisicaquimica/	Instituto Nacional de Tecnologías Educativas y de Formación del Profesorado del Ministerio de Educación, Cultura y Deporte.			2010	Centro para la innovación y el desarrollo de la educación a distancia.
Jesús M. Muñoz Calle Luis Ramírez Vicente Joaquín Recio Miñarro Carlos Palacios Gómez Mª Josefa Grima Rojas Javier Soriano Falcó Enric Ripoll Mira José Luis san Emeterio Peña	3º ESO Física y Química http://recursostic.educacion.es/secundaria/edad/3esofisicaquimica/	Instituto Nacional de Tecnologías Educativas y de Formación del Profesorado del Ministerio de Educación, Cultura y Deporte.			2010	Centro para la innovación y el desarrollo de la educación a distancia.
Moreno Gómez, E.	Enseñanza de la Ciencia en el aula CUALQUIER par de libros de Física y Química de 3º y 4º de ESO	CSIC		978-84-00-09299-3	2014	Los contenidos son los mismos y se utilizarán COMO SOPORTE AUXILIAR/REFERENCIA, no como libro de texto. Para la preparación de los trabajos grupales, se recomiendan libros de Bachillerato o de primeros cursos de carrera como Tipler, Serway...