



1. General information

Course: PHYSICS

Type: BASIC

Degree: 340 - UNDERGRADUATE DEGREE PROGRAMME IN ENVIRONMENTAL SCIENCES

Center: 501 - FACULTY OF ENVIRONMENTAL SCIENCES AND BIOCHEMISTRY

Year: 1

Main language: Spanish

Use of additional languages:

Web site:

Code: 37301

ECTS credits: 6

Academic year: 2019-20

Group(s): 40

Duration: First semester

Second language: English

English Friendly: Y

Bilingual: N

Lecturer: FRANCISCO JAVIER TAPIADOR FUENTES - Group(s): 40

Building/Office	Department	Phone number	Email	Office hours
Office 0.04, ICAM	CIENCIAS AMBIENTALES	925268800 Ext. 5762	francisco.tapiador@uclm.es	Previa cita por correo-e, L, M, X de 15h a 17h, en el periodo docente de la asignatura.

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
E01	Ability to understand and apply basic knowledge.
G03	Good oral and written communication

5. Objectives or Learning Outcomes

Course learning outcomes

Description

To know the basic concepts and principles of Physics that have a greater importance in the field of the study of the environment.

Additional outcomes

6. Units / Contents

Unit 1:

Unit 2:

Unit 3:

Unit 4:

Unit 5:

Unit 6:

Unit 7:

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	R	Description
Class Attendance (theory) [ON-SITE]	Lectures	E01 G03	0.56	14	Y	Y	N	
Writing of reports or projects [OFF-SITE]	Project/Problem Based Learning (PBL)	E01 G03	0.4	10	Y	N	N	
On-line debates and forums [OFF-SITE]	Group tutoring sessions	E01 G03	0.24	6	Y	Y	N	
Class Attendance (practical) [ON-SITE]	Problem solving and exercises	E01 G03	0.84	21	Y	Y	N	
Study and Exam Preparation [OFF-SITE]	Project/Problem Based Learning (PBL)	E01 G03	1.44	36	Y	Y	N	
Writing of reports or projects [OFF-SITE]	Self-study	E01 G03	0.96	24	Y	Y	N	
Analysis of articles and reviews [OFF-SITE]	Combination of methods	E01 G03	0.96	24	Y	Y	N	
Project or Topic Presentations [ON-SITE]	Case Studies	E01 G03	0.48	12	Y	Y	N	

[SITE]								
Final test [ON-SITE]	Assessment tests	E01 G03	0.12	3	Y	Y	N	
Total:			6	150				
Total credits of in-class work: 2			Total class time hours: 50					
Total credits of out of class work: 4			Total hours of out of class work: 100					

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	
Other methods of assessment	50.00%	0.00%	
Final test	50.00%	0.00%	
Total:	100.00%	0.00%	

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Writing of reports or projects [AUTÓNOMA][Project/Problem Based Learning (PBL)]	10
On-line debates and forums [AUTÓNOMA][Group tutoring sessions]	6
Study and Exam Preparation [AUTÓNOMA][Project/Problem Based Learning (PBL)]	36
Writing of reports or projects [AUTÓNOMA][Self-study]	24
Analysis of articles and reviews [AUTÓNOMA][Combination of methods]	24
Project or Topic Presentations [PRESENCIAL][Case Studies]	12
Final test [PRESENCIAL][Assessment tests]	3
Unit 1 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	2
Unit 2 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	3
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	3
Unit 3 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	2
Unit 4 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	3
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	3
Unit 5 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	6
Unit 6 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	4
Unit 7 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	1
Global activity	
Activities	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	14
Writing of reports or projects [AUTÓNOMA][Project/Problem Based Learning (PBL)]	10
On-line debates and forums [AUTÓNOMA][Group tutoring sessions]	6
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	21
Study and Exam Preparation [AUTÓNOMA][Project/Problem Based Learning (PBL)]	36
Writing of reports or projects [AUTÓNOMA][Self-study]	24
Analysis of articles and reviews [AUTÓNOMA][Combination of methods]	24
Project or Topic Presentations [PRESENCIAL][Case Studies]	12
Final test [PRESENCIAL][Assessment tests]	3
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Francisco J. Tapiador	Apuntes de Física de Primero				2017	Están colgados en campus virtual. No hay que imprimirlos.
Serway and Jewett	Physics for Scientists and Engineers with Modern Physics	Brooks/Cole		978-1-133-95405-7	2014	Libro de referencia de la asignatura.
Zinke-Allmang Sills and Nejat Galiano-Riveros	Physics for the Life Sciences	Nelson		978-0176558697	2016	Libro complementario, con ejemplos útiles en CC Ambientales