UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: INTRODUCTION TO THE MATHEMATICAL METHOD
Code: 38501
Type: BASIC
ECTS credits: 6
Degree: 423 - UNDERGRADUATE DEGREE IN MATHEMATICS
Academic year: 2023-24
Center: 603 - E.T.S. CIVIL ENGINEERS OF CR
Group(s): 20
Year: 1
Duration: First semester
Main language:
Second language:
Use of additional languages:
English Friendly: Y
Web site:
Bilingual: N

Lecturer: **PABLO PEDREGAL TERCERO** - Group(s): **20**

Building/Office	Department	Phone number	Email	Office hours
2-A21	MATEMÁTICAS	926295436	pablo.pedregal@uclm.es	Monday, 11:30-12:30 Tuesday, 10:30-11:30

2. Pre-Requisites

In order for students to mature main learning objectives, they need to posses basic knowledge and skills from his/her previous education.

- Basic knowledge on geometry and trigonometry, basic math operations (powers, logarithms, fractions), polynomials, matrices, differentiation, integration, and graphic representation of functions.

- Basic skills in the use of personal computers.

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

This pretends to be an introductory subject to stress the main points of the mathematical method characterized by the logic and rigor of arguments, the absence of contradiction, and how the principal tool in Mathematics is the mind and its potentialities.

4. Degree competences achieved in this course

Course competences

Code	Description
INFO-2023	

5. Objectives or Learning Outcomes

Course learning outcomes

Description

6. Units / Contents

Unit 1: Basic aspects of the mathematical method
Unit 2: Collaboration in Mathematics
Unit 3: Exposition of results
Unit 4: Imagination and creativity
Unit 5: Basic complementary concepts.

ADDITIONAL COMMENTS, REMARKS

It is virtually impossible to separate, in succession, the various skills and habilities that are meant to convey to students.

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures		1.18	29.5	N	-	
Problem solving and/or case studies [ON-SITE]	Project/Problem Based Learning (PBL)		0.5	12.5	N	-	
Individual tutoring sessions [ON-SITE]	Lectures		0.2	5	N	-	
Workshops or seminars [ON-SITE]	Individual presentation of projects		0.3	7.5	N	-	

Study and Exam Preparation [OFF-SITE]	and reports Self-study		3.6	90	N	-	
Final test [ON-SITE]	Assessment tests		0.1	2.5	Y	N	
Progress test [ON-SITE]	Problem solving and exercises		0.1	2.5	Y	N	
Project or Topic Presentations [ON-SITE]	Individual presentation of projects and reports		0.02	0.5	Y	N	
		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
Progress Tests	20.00%	0.00%	
Oral presentations assessment	10.00%	10.00%	
Final test	70.00%	90.00%	
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**
Class Attendance (theory) [PRESENCIAL][Lectures]	35
Problem solving and/or case studies [PRESENCIAL][Project/Problem Based Learning (PBL)]	12.5
Individual tutoring sessions [PRESENCIAL][Lectures]	5
Workshops or seminars [PRESENCIAL][Individual presentation of projects and reports]	7.5
Study and Exam Preparation [AUTÓNOMA][Self-study]	90

Global activity

Activities	**hours**
Workshops or seminars [PRESENCIAL][Individual presentation of projects and reports]	7.5
Class Attendance (theory) [PRESENCIAL][Lectures]	35
Study and Exam Preparation [AUTÓNOMA][Self-study]	90
Problem solving and/or case studies [PRESENCIAL][Project/Problem Based Learning (PBL)]	12.5
Individual tutoring sessions [PRESENCIAL][Lectures]	5
Total horas:	150

10. Bibliography and Sources

Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
B. Reynolds, W. Fenton	College Geometry	J. Wiley&Sons	Emeryville	978-0-470-53493-9		Se trata de un texto básico que contiene algo del material que se pretende cubrir en esta asignatura.
A.I. Fetisov	Acerca de la demostración en Geometría	MIR			1980	Aunque se trata de un libro publicado y traducido hace muchos años, contiene algunos aspectos interesantes en la materia propio de esta asignatura.