

DIDACTICS OF MATHEMATICS: GEOMETRIC SENSE

17528 - DIDACTICS OF MATHEMATICS: GEOMETRIC SENSE (2024-25)

General

Code: 17528

Lecturer responsible:

MONJE PARRILLA, FRANCISCO JAVIER

Credits ECTS:	6,00
Theoretical credits:	1,20
Practical credits:	1,20
Distance-base hours:	3,60

Departments involved

- **Dept:** INNOVATION AND DIDACTIC TRAINING

Area: TEACHING MATHEMATICS

Theoretical credits: 1,2

Practical credits: 1,2

This Dept. is responsible for the course.

This Dept. is responsible for the final mark record.

Study programmes where this course is taught

- [DEGREE IN PRIMARY SPECIALITY](#)

Course type: COMPULSORY (Year: 2)

Competencies and objectives

Course context for academic year 2024-25

Subject taught in the Degree in Primary Education. 2nd course; 2nd semester

Course content (verified by ANECA in official undergraduate and Master's degrees) for academic year {0}

General Competences (CG)

- **CG1** : Identificar necessitats d'informació, buscar-la, analitzar-la, processar-la, valorar-la, usar-la i comunicar-la de manera eficaç, crítica i creativa.
- **CG2** : Planificar, organitzar i gestionar processos, informació, resolució de problemes i projectes. Tenir iniciativa, esperit emprenedor i capacitat de generar noves idees i accions.
- **CG4** : Fer ús de les noves tecnologies de la informació i la comunicació per a aprendre, comunicar-se i compartir coneixement.
- **CG9** : Valorar l'impacte social i mediambiental d'actuacions en el seu àmbit.

Specific Competences (CE)

- **CE13** : Potenciar i liderar el desenvolupament i implementació, en el centre escolar al que pertanga, de propostes curriculars en alguna àrea curricular en la qual posseïska una major qualificació i responsabilitzar-se de dinamitzar els processos de la millora de la qualitat en aqueixa àrea.
- **CE3** : Organitzar l'ensenyament en el marc dels paradigmes epistemològics de les matèries del títol, utilitzant de forma integrada els coneixements disciplinaris, transversals i multidisciplinaris adequats al respectiu nivell educatiu, mostrant la comprensió dels objectius d'aprenentatge de les àrees de coneixement que estableix el currículum d'educació primària.
- **CE7** : Dissenyar i desenvolupar projectes educatius, unitats de programació, entorns, activitats i materials, incloent-hi els digitals, que permeten adaptar el currículum a la diversitat de l'alumnat i promoure la qualitat dels contextos en què es desenvolupa el procés educatiu, de manera que es garantisca el seu benestar.
- **CE9** : Integrar les tecnologies de la informació i comunicació en les activitats d'ensenyament i aprenentatge guiat i autònom.

Exclusive skill taught in this course

No data

Learning outcomes (Training objectives)

No data

Specific objectives stated by the academic staff for academic year 2024-25

Develop understanding of visualization, definition, classification, construction, and testing processes in the context of solving geometry problems.

Content and bibliography

Content for academic year 2024-25

Visualization, classification, definition, construction and testing processes in geometric contexts:

* Geometric figures

* Similarities

* Geometric transformations

Related links

No data

Invitación a la didáctica de la geometría

Author(s): Alsina Catalá, Claudi; Burgués Flamerich, Carmen; Fortuny Aymemi, Josep M^a

Issue: Madrid : Síntesis, 1989;

ISBN: 84-7738-020-1

Category: Sin especificar

Materiales para construir la geometría

Author(s): Alsina, Claudi; Burgués Flamerich, Carmen; Fortuny Aymemi, Josep M^a

Issue: Madrid : Síntesis, 1998;

ISBN: 84-7738-011-2

Category: Sin especificar

Didáctica de las Matemáticas para maestros de Educación Primaria

Author(s): Carrillo Yáñez, José

Issue: Madrid : Paraninfo, 2016;

ISBN: 978-84-283-3754-0

Category: Básico

Simetría dinámica

Author(s): Alsina, Claudi; Pérez Gómez, Rafael; Ruíz Garrido, Ceferino

Issue: Madrid : Síntesis, 1989;

ISBN: 84-7738-067-8

Category: Sin especificar

Proporcionalidad geométrica y semejanza

Author(s): Grupo Beta

Issue: Madrid : Síntesis, 1990;

ISBN: 84-7738-088-0

Category: Sin especificar

Assessment

Assessment procedures and criteria 2024-25

ORDINARY CALL (C3)

Two options:

Option 1 (Continuous Evaluation)

Two parts:

- First part: (50%).
- Second part: (50%).

Students who take the first part are already opting for this assessment option. The final mark is calculated by taking the average between the marks obtained in the two parts.

The subject is passed with a mark equal to, or greater than, 5.

Option 2

Students who have not followed the continuous evaluation (option 1) can opt for evaluation option 2. In this case, the student will take an exam whose mark will constitute 100% of the mark for the subject (exam of the entire subject).

The subject is passed with a mark equal to, or greater than, 5.

EXTRAORDINARY CALL (C4)

Students who have not passed the subject in the call C3 (or have not taken the call C3) can take the call C4, in which they will take an exam whose mark will constitute 100% of the mark for the subject.

The subject is passed with a mark equal to, or greater than, 5.

NOTE for all calls: Students will be evaluated in the language of the course in which they are enrolled.













Description	Criteria	Type	Weighting system
Option 1. First part: Resolution of theoretical-practical problems	Level reached in problem solving, identifying the mathematical concepts and procedures that allow solving them.	ACTIVITIES OF EVALUATION DURING THE SEMESTER	50
Option 2. Second part: Resolution of theoretical-practical problems	Level reached in problem solving, identifying the mathematical concepts and procedures that allow solving them.	ACTIVITIES OF EVALUATION DURING THE SEMESTER	50

Official exam dates for academic year 2024-25

Exam session	Date	Time	Group - Classroom(s) allocated	Comments
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(C1) Pruebas
extraordinarias de
finalización de estudios

25/09/2024 09:00 -
12:00

GROUP 1 (THEORY CLASS)	A3/00.11 
GROUP 11 (THEORY CLASS)	A3/00.11 
GROUP 12 (THEORY CLASS)	A3/00.11 
GROUP 13 (THEORY CLASS)	A3/00.11 
GROUP 2 (THEORY CLASS)	A3/00.11 
GROUP 3 (THEORY CLASS)	A3/00.11 
GROUP 4 (THEORY CLASS)	A3/00.11 
GROUP 5 (THEORY CLASS)	A3/00.11 
GROUP 6 (THEORY CLASS)	A3/00.11 
GROUP 7 (THEORY CLASS)	A3/00.11 
GROUP 8 (THEORY CLASS)	A3/00.11 
GROUP 9 (THEORY CLASS)	A3/00.11 

(C3) Periodo ordinario
para asignaturas de
segundo semestre y
anuales

29/05/2025

(C4) Pruebas
extraordinarias para
asignaturas de grado y
máster

09/07/2025

Academic staff



MONJE PARRILLA, FRANCISCO JAVIER
Lecturer responsible

THEORY CLASS: Groups: 2 , 12
COMPUTER PRACTICALS: Groups: 2 , 12



BARDAL ROMERO, VICENTE

THEORY CLASS: Groups: 6 , 7
COMPUTER PRACTICALS: Groups: 6 , 7



BUFORN LLORET, ANGELA

THEORY CLASS: Groups: 3 , 11
COMPUTER PRACTICALS: Groups: 3 , 11



FERNANDEZ VERDU, CENEIDA

THEORY CLASS: Groups: 1 , 4
COMPUTER PRACTICALS: Groups: 1 , 4



LLADOSA DIAZ, ANDRES FRANCISCO

THEORY CLASS: Groups: 8 , 9
COMPUTER PRACTICALS: Groups: 8 , 9



SAORIN VILLA, ANTONIO

THEORY CLASS: Groups: 5
COMPUTER PRACTICALS: Groups: 5

Groups

THEORY CLASS

Group	Semester	Morning or afternoon session	Language	No. of enrolled students		On registration, distribution
Gr. 1 (THEORY CLASS) : 1 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	50	<ul style="list-style-type: none"> ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME ▪ Allowed DEGREE IN PRIMARY SPECIALITY 	From ID document number A - To ID document number Z
Gr. 11 (THEORY CLASS) : 11 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	32	<ul style="list-style-type: none"> ▪ Allowed DEGREE IN PRIMARY SPECIALITY ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME 	
Gr. 12 (THEORY CLASS) : 12 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	34	<ul style="list-style-type: none"> ▪ Allowed DEGREE IN PRIMARY SPECIALITY ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME 	
Gr. 13 (THEORY CLASS) : 13 PRIMARY (SPANISH-AFTERNOON)	2S	Afternoon	Spanish	17	<ul style="list-style-type: none"> ▪ Allowed DEGREE IN PRIMARY SPECIALITY ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME 	From ID document number A - To ID document number Z
Gr. 2 (THEORY CLASS) : 2 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	52	<ul style="list-style-type: none"> ▪ Allowed DEGREE IN PRIMARY SPECIALITY ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME 	From ID document number A - To ID document number Z
Gr. 3 (THEORY CLASS) : 3 PRIMARY (VALENCIAN-MORNING)	2S	Morning	Valencian	56	<ul style="list-style-type: none"> ▪ Allowed DEGREE IN PRIMARY SPECIALITY 	From ID document number A - To ID document number Z
Gr. 4 (THEORY CLASS) : 4 HIGH ACADEMIC PERFORMANCE GROUP (ARA)	2S	Morning	English	32	<ul style="list-style-type: none"> ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME ▪ Allowed DEGREE IN PRIMARY SPECIALITY 	
Gr. 5 (THEORY CLASS) : 5 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	55	<ul style="list-style-type: none"> ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME ▪ Allowed DEGREE IN PRIMARY SPECIALITY 	From ID document number A - To ID document number Z
Gr. 6 (THEORY CLASS) : 6 PRIMARY (SPANISH-AFTERNOON)	2S	Afternoon	Spanish	50	<ul style="list-style-type: none"> ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME ▪ Allowed DEGREE IN PRIMARY SPECIALITY 	From ID document number A - To ID document number Z
Gr. 7 (THEORY CLASS) : 7 PRIMARY (VALENCIAN-AFTERNOON)	2S	Afternoon	Valencian	35	<ul style="list-style-type: none"> ▪ Allowed DEGREE IN PRIMARY SPECIALITY 	From ID document number A - To ID document number Z













Group	Semester	Morning or afternoon session	Language	No. of enrolled students	On registration, distribution	
Gr. 8 (THEORY CLASS) : 8 PRIMARY (SPANISH-AFTERNOON)	2S	Afternoon	Spanish	42	<ul style="list-style-type: none"> ▪ Allowed DEGREE IN PRIMARY SPECIALITY ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME 	From ID document number A - To ID document number Z
Gr. 9 (THEORY CLASS) : 9 PRIMARY (SPANISH-AFTERNOON)	2S	Afternoon	Spanish	46	<ul style="list-style-type: none"> ▪ Allowed DEGREE IN PRIMARY SPECIALITY ▪ Allowed INTERNATIONAL MOBILITY PROGRAMME 	From ID document number A - To ID document number Z

COMPUTER PRACTICALS

Group	Semester	Morning or afternoon session	Language	No. of enrolled students
Gr. 1 (COMPUTER PRACTICALS) : 1 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	50
Gr. 11 (COMPUTER PRACTICALS) : 11 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	32
Gr. 12 (COMPUTER PRACTICALS) : 12 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	34
Gr. 13 (COMPUTER PRACTICALS) : 13 PRIMARY (SPANISH-AFTERNOON)	2S	Afternoon	Spanish	17
Gr. 2 (COMPUTER PRACTICALS) : 2 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	52
Gr. 3 (COMPUTER PRACTICALS) : 3 PRIMARY (VALENCIAN-MORNING)	2S	Morning	Valencian	56
Gr. 4 (COMPUTER PRACTICALS) : 4 HIGH ACADEMIC PERFORMANCE GROUP (ARA)	2S	Morning	English	32
Gr. 5 (COMPUTER PRACTICALS) : 5 PRIMARY (SPANISH-MORNING)	2S	Morning	Spanish	55
Gr. 6 (COMPUTER PRACTICALS) : 6 PRIMARY (SPANISH-AFTERNOON)	2S	Afternoon	Spanish	50
Gr. 7 (COMPUTER PRACTICALS) : 7 PRIMARY (VALENCIAN-AFTERNOON)	2S	Afternoon	Valencian	35
Gr. 8 (COMPUTER PRACTICALS) : 8 PRIMARY (SPANISH-AFTERNOON)	2S	Afternoon	Spanish	42
Gr. 9 (COMPUTER PRACTICALS) : 9 PRIMARY (SPANISH-AFTERNOON)	2S	Afternoon	Spanish	46



Timetables

THEORY CLASS

Group	Start date	End date	Day	Start time	End time	Lecture room
1	27/01/2025	23/05/2025	LUN	08:00	10:00	ED/0-08 
11	27/01/2025	23/05/2025	LUN	08:00	10:00	ED/0-06 
12	27/01/2025	23/05/2025	LUN	12:00	14:00	ED/1-14 
13	27/01/2025	23/05/2025	LUN	17:00	19:00	ED/1-24 
2	27/01/2025	23/05/2025	LUN	10:00	12:00	ED/0-09 
3	27/01/2025	23/05/2025	LUN	10:00	12:00	ED/0-12 
4	27/01/2025	23/05/2025	LUN	10:00	12:00	ED/1-14 
5	27/01/2025	23/05/2025	LUN	12:00	14:00	ED/1-15 
6	27/01/2025	23/05/2025	LUN	15:00	17:00	ED/0-08 
7	27/01/2025	23/05/2025	LUN	17:00	19:00	ED/0-09 
8	27/01/2025	23/05/2025	LUN	17:00	19:00	ED/0-12 
9	27/01/2025	23/05/2025	LUN	19:00	21:00	ED/1-14 

COMPUTER PRACTICALS

Group	Start date	End date	Day	Start time	End time	Lecture room
1	27/01/2025	23/05/2025	MIE	08:00	10:00	ED/0-08 
11	27/01/2025	23/05/2025	MIE	08:00	10:00	ED/0-06 
12	27/01/2025	23/05/2025	MIE	12:00	14:00	ED/1-14 
13	27/01/2025	23/05/2025	MIE	17:00	19:00	ED/1-24 
2	27/01/2025	23/05/2025	MIE	10:00	12:00	ED/0-09 

Group	Start date	End date	Day	Start time	End time	Lecture room
3	27/01/2025	23/05/2025	MIE	10:00	12:00	ED/0-12 
4	27/01/2025	23/05/2025	MIE	10:00	12:00	ED/1-14 
5	27/01/2025	23/05/2025	MIE	12:00	14:00	ED/1-15 
6	27/01/2025	23/05/2025	MIE	15:00	17:00	ED/0-08 
7	27/01/2025	23/05/2025	MIE	17:00	19:00	ED/0-09 
8	27/01/2025	23/05/2025	MIE	17:00	19:00	ED/0-12 
9	27/01/2025	23/05/2025	MIE	19:00	21:00	ED/1-14 