UAB
Universitat Autònoma de Barcelona

2020/2021

Linear geometry

Code: 100095
ECTS Credits: 6

Degree	Type	Year	Semester
2500149 Mathematics	OB	2	1

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: catalan (cat)

Some groups entirely in English: No

Some groups entirely in Catalan: Yes

Some groups entirely in Spanish: No

Teachers

Jaume Aguadé Bover

Roberto Rubio Nuñez

David Marín Pérez

Prerequisites

See catalan version of this guide.

Objectives and Contextualisation

See catalan version of this guide.

Competences

- Actively demonstrate high concern for quality when defending or presenting the conclusions of ones work.
- Apply critical spirit and thoroughness to validate or reject both ones own arguments and those of others.
- Assimilate the definition of new mathematical objects, relate them with other contents and deduce their properties.
- Identify the essential ideas of the demonstrations of certain basic theorems and know how to adapt them to obtain other results.
- Students must be capable of applying their knowledge to their work or vocation in a professional way and they should have building arguments and problem resolution skills within their area of study.
- Students must have and understand knowledge of an area of study built on the basis of general secondary education, and while it relies on some advanced textbooks it also includes some aspects coming from the forefront of its field of study.
- Use computer applications for statistical analysis, numeric and symbolic calculus, graphic display, optimisation or other purposes to experiment with Mathematics and solve problems.

Learning Outcomes

1. Actively demonstrate high concern for quality when defending or presenting the conclusions of ones work.
2. Apply critical spirit and thoroughness to validate or reject both ones own arguments and those of others.
3. Classify conic and quadric sections and find their notable elements.
4. Classify planar and spatial isometrics, determining the type and characteristic elements.
5. Know how to resolve planar and spatial geometric problems.
6. Operate with points, vectors, distances and angles in relative and Euclidian spaces and with the corresponding systems of reference, subspaces and transformations
7. Students must be capable of applying their knowledge to their work or vocation in a professional way and they should have building arguments and problem resolution skills within their area of study.
8. Students must have and understand knowledge of an area of study built on the basis of general secondary education, and while it relies on some advanced textbooks it also includes some aspects coming from the forefront of its field of study.

Content

See catalan version of this guide.

Methodology

See catalan version of this guide.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
exercises	15	0.6	
lessons	30	1.2	
seminars	8	0.32	
Type: Autonomous			
problem solving	41	1.64	
study	30	1.2	
test oriented study	10	0.4	

Assessment

See catalan version of this guide.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Second chance test	60%	4	0.16	3, 4, 6, 5

Seminar sessions	40%	4	0.16	2, 1, 8, 7
Test #1	30%	4	0.16	5
Test #2	30%	4	0.16	3, 4, 6, 5

Bibliography

See catalan version of this guide.