



Teaching guides

Academic year: 2021-22

General data

Code: 26218

Responsible teacher:

SABATER PIQUERES, CARLOS

Crdts. ECTS:	6,00
Theoretical credits:	0,92
Practical credits:	1,48
Non-face-to-face charging:	3,60

Departments with teaching

- **Department:** APPLIED PHYSICS **Area:** APPLIED PHYSICS

Theoretical credits: 0.46

Practical credits: 0.74 This

dep. is responsible for the subject.

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- **Dep.:** MATHEMATICS **Area:** STATISTICS E
OPERATIVE INVESTIGATION

Theoretical credits: 0.46

Practical credits: 0.74

Studies in which it is taught

- **DEGREE IN PHYSICS**

Type of subject: BASIC

(Course: 1)

Contents and bibliography

- Contents for the 2021-22 academic year
- related links
- Bibliography

Contents for the 2021-22 academic year

Block 1: Introduction to language and mathematical reasoning.

Topic 1: Introduction to logic and mathematical reasoning.

1.1 Propositional calculus.

1.2 Deduction: some types of demonstrations.

Topic 2: Sets and correspondences.

2.1 Introduction to set theory. Joint operations.

2.2 Correspondences and applications.

Topic 3: Introduction to statistics.

3.1. Statistical variables. Tables and graphs.

3.2 Introduction to probability.

3.3. The normal distribution. Introduction to error theory.

Topic 4: Algebraic structures and binary relationships

4.1 Introduction to algebraic structures. Numerical sets.

4.2 Binary relationships.

Block 2: Experimentation in Physics

General contents:

Safety in the physics laboratory

Handling of frequently used material in the laboratory

Basic Laboratory Operations

Preparation of reports.

Preparation of tables and graphs

Use of computer tools

Search and analysis of physical information.

Build and database management