

(*) Indicates that there are additional or special requirements, consult the end of the document



Santa Cruz de Marcenado, 27
28015 Madrid - España.

Matemáticas Aplicadas

Integrated Programme at the Polytechnic School
International offering 2024-2025

FIRST SEMESTER (September to January only)

ECTS	Acad. Year	Course Name	Language
6	1	Linear algebra	Spanish
6	1	Calculus I	Spanish
6	1	Introduction to mathematical language	Spanish
6	1	Mathematical models and graphs	Spanish
6	1	Development of professional competences I	Spanish
6	2	Advanced calculus	Spanish
6	2	Ordinary differential equations	Spanish
6	2	Topology	Spanish
6	2	Optimization	Spanish
6	2	Numerical methods	Spanish
6	3	Complex variables	Spanish
6	3	Statistics	Spanish
6	3	Algebraic structures	Spanish
6	3	Advanced numerical methods	Spanish
6	3	Dynamic systems	Spanish

SECOND SEMESTER (January to May / June only)

ECTS	Acad. Year	Course Name	Language
6	1	Linear geometry	Spanish
6	1	Calculus II	Spanish
6	1	Programming Fundamentals	Spanish
6	1	Physics models	Spanish
6	1	Introduction to data analysis	Spanish
6	2	Integration and measurement	Spanish
6	2	Equations in partial derivatives	Spanish
6	2	Differential geometry	Spanish
6	2	Probability theory	Spanish
6	2	Development of the Participative and Solidarity Spirit	Spanish
6	2	Techno-ethics (EL)	Spanish
6	3	Stochastic processes	Spanish
6	3	Data science	Spanish
6	3	Algorithmic Algebra and Cryptography	Spanish
6	3	Geometry and computational topology	Spanish
6	3	Development of professional competences II	Spanish

Syllabi:

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*** ANNOTATIONS AND SPECIAL REQUIREMENTS:**

(none)