

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



Santa Cruz de Marcenado, 27  
28015 Madrid - España.

## Applied Physics

Integrated Programme at the Polytechnic School  
International offering 2024-2025

### FIRST SEMESTER (September to January only)

ECTS	Acad. Year	Course Name	Language
6	1	<a href="#">Fundamentals of Physics I</a>	Spanish
6	1	<a href="#">Calculus I</a>	Spanish
6	1	<a href="#">Linear algebra</a>	Spanish
6	1	<a href="#">Programming</a>	Spanish
6	1	<a href="#">Development of Professional Competences I</a>	Spanish
6	2	<a href="#">Differential equations</a>	Spanish
6	2	<a href="#">Electricity and magnetism</a>	Spanish
6	2	<a href="#">Complex variables</a>	Spanish
6	2	<a href="#">Experimental Techniques II</a>	Spanish
6	2	<a href="#">Thermodynamics</a>	Spanish
6	3	<a href="#">Statistical Physics</a>	Spanish
6	3	<a href="#">Computational Physics II</a>	Spanish
6	3	<a href="#">Solid-state Physics</a>	Spanish
6	3	<a href="#">Applied Electronics</a>	Spanish
6	3	<a href="#">Quantum physics</a>	Spanish

### SECOND SEMESTER (January to May / June only)

ECTS	Acad. Year	Course Name	Language
6	1	<a href="#">Fundamentals of Physics II</a>	Spanish
6	1	<a href="#">Calculus II</a>	Spanish
6	1	<a href="#">Computational Physics I</a>	Spanish
6	1	<a href="#">Experimental Techniques I</a>	Spanish
6	1	<a href="#">Mechanics and Waves</a>	Spanish
6	2	<a href="#">Optics</a>	Spanish
6	2	<a href="#">Advanced Mathematical Methods</a>	Spanish
6	2	<a href="#">Analytical Mechanics and Relativity</a>	Spanish
6	2	<a href="#">Electromagnetic Fields and Waves</a>	Spanish
6	2	<a href="#">Development of the Participative and Solidarity Spirit/ Te</a>	Spanish
6	2	<a href="#">Techno-Ethics (EL)</a>	Spanish
6	3	<a href="#">Experimental Techniques II</a>	Spanish
6	3	<a href="#">Atomic and Molecular Physics</a>	Spanish
6	3	<a href="#">Materials Physics</a>	Spanish
6	3	<a href="#">Quantum Mechanics and Computing</a>	Spanish
6	3	<a href="#">Development of Professional Competences II</a>	Spanish

**\* ANNOTATIONS AND SPECIAL REQUIREMENTS:**  
(none)

Syllabi:

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