

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



Santa Cruz de Marcenado, 27  
28015 Madrid - España.

## Mechanical Engineering

Integrated Programme at the Polytechnic School  
International offering 2023-2024

### FIRST SEMESTER (September to January only)

ECTS	Acad. Year	Course Name	Language
6	1	Mathematics I	Spanish
6	1	Calculus I	Spanish
6	1	Physics I	Spanish
6	1	Graphic Expression I	Spanish
6	1	Fundamentals of Computer Science	Spanish
6	2	Computer-assisted design I	Spanish
6	2	Circuits	Spanish
6	2	Fundamentals of Materials Science	Spanish/English
6	2	Statistics	Spanish/English
6	2	Theory of Machines	Spanish
6	3	Electronics	Spanish
6	3	Material resistance	Spanish
6	3	Thermal Engineering	Spanish
6	3	Fluid mechanics	Spanish/English
6	3	Management and Organization of Companies	Spanish/English
6	4	Industrial processes I	Spanish/English
6	4	Calculation of Structures	Spanish/English
6	4	Projects	Spanish

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

ECTS	Acad. Year	Course Name	Language
6	1	Mathematics II	Spanish
6	1	Calculus II	Spanish
6	1	Physics II	Spanish
6	1	Graphic Expression II	Spanish
6	1	Chemistry	Spanish
3	2	Electric machines	Spanish
6	2	The Company and its Environment	Spanish/English
6	2	Thermodynamics	Spanish/English
6	2	Emotional Intelligence and Communication	Spanish
3	3	Automatisms and Control Methods	Spanish
6	3	Calculation, Design and Testing of Machines	Spanish/English
6	3	Materials Engineering *	Spanish/English
6	3	Fluid Mechanics Systems and Machines	Spanish
6	3	Teamwork and Project Management	Spanish
6	4	Industrial processes II	Spanish
6	4	Environment and Sustainability	Spanish/English

Syllabi:

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6      4      Computer-assisted Engineering

Spanish/English

**\* ANNOTATIONS AND SPECIAL REQUIREMENTS:**

Materials Engineering \*

Cannot be followed remotely.