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COMILLAS
UNIVERSIDAD PONTIFICIA

ICAI

Study Abroad Program
for International
Engineering Students

**ICAI
SAPIENS**

ICAI School of Engineering
Madrid (Spain)

Academic Year
2023-2024



DESCRIPTION

ICAI-SAPIENS is a program that was designed for engineering and other STEM students in 2013, and has been growing ever since. Students, especially from the US, gain international experience without delaying their graduation, given that the vast majority of these courses are what they require towards their curriculum. We offer several categories of courses in our ICAI-SAPIENS, all of which are taught in English:

- **Fundamental Engineering/STEM:** these are meant to be similar/identical to their equivalent subjects in a standard US Sophomore/Junior year.
- **Culture, Language & Humanities:** these provide an insight into the Spanish language and culture, and include guided visits to several local landmarks.
- **Technological & Electives:** these are highly recommended for international engineering/STEM students.
- **Research Projects:** supervised by professors and researchers of the school of engineering. These projects are only available and assigned to semester-long exchanges and 8-week summer students.
- *Other, additional and business courses: offered at the ICAI School of Engineering, these are also available to ICAI-SAPIENS students, schedule permitting, offered in either English and/or Spanish. Please note that their calendar and exam periods may differ from SAPIENS depending on the term(s).*

PERIODS / TERMS

ICAI-SAPIENS is offered in the following three terms:

- **FALL 2023:** from September 4th to December 22nd
- **SPRING 2024:** from January 15th to April 26th
- **SUMMER 2024:** from May 20th to July 12th (4 to 8 weeks)

Note: these periods include SAPIENS exams. ICAI (non-SAPIENS) exams may extend to January 12th (FALL) or May 22nd (SPRING)

RETAKE EXAMS: for SAPIENS courses, mid to late May. For ICAI courses, mid to late June.

LOCATION

The ICAI School of Engineering is located in downtown Madrid, within walking distance to the most significant historic landmarks in our city. Our 24/7 outsourced housing service provides numerous nearby housing options.

Madrid is conveniently situated in the center of Spain, with easy access (typically in under 3 hours by high-speed train or highway) to the most interesting tourist attractions and cities in Spain. Madrid International Airport offers direct flights to the most important cities in Europe, including all capital cities in the European Union.



TESTIMONIAL

"The past six months here at Comillas have been nothing but positive experiences for me. I really appreciated how personal the teachers are with their students. It is clear to see that they are truly rooting for our success. I could not have imagined a better place to make new lifelong friends and memories during my study abroad experience."

Carly Torrado Lubalin

Mechanical Engineering '19
A. James Clark School of Engineering
University of Maryland, College Park

FUNDAMENTAL ENGINEERING/STEM COURSES		ECTS	FALL	SPRING	SUMMER
DMA-SAP-431	Applied Linear Algebra	6		•	
DI E-SAP-212	Electricity & Magnetism	6	•		
DI E-SAP-354	Engineering Economy	6	•	•	
DI M-SAP-353	Engineering Fluid Mechanics	6		•	
DOI -SAP-303	Engineering Statistics	6		•	
DI M-SAP-336	Engineering Thermodynamics	6	•	•	•
DI M-SAP-346	Environmental Engineering & Sustainability	6	•	•	
DI M-SAP-167	General Chemistry	7.5	•		
DMA-SAP-230	Introduction to Differential Equations	6	•	•	
DI M-SAP-233	Introduction to Dynamics	6		•	
DI M-SAP-211	Introduction to Statics	6	•		
DEA-SAP-235	Introduction to Electric & Electronic Circuits	7.5		•	
DI M-SAP-337	Introduction to Materials & their Applications	6		•	
DMA-SAP-241	Multivariable Calculus	6	•		
DMA-SAP-437	Numerical Analysis	6		•	
DI M-SAP-239	Principles of Molecular Cell Biology & Biotechnology	7.5		•	
DI M-SAP-232	Quantum Physics	3		•	
DI M-SAP-246	Sustainable Engineering Principles	4.5			•
DI M-SAP-231	Thermal Physics	3		•	

CULTURE, LANGUAGE & HUMANITIES COURSES		ECTS	FALL	SPRING	SUMMER
TEO-SAP-123	Christianity & World Religions	3	•	•	•
CAC-SAP-1xx	Cultural Electives	2 & 4	•	•	
I I M-SAP-140	Spanish Culture	3	•	•	•
DOI -SAP-130	Spanish Culture through Films	6	•	•	
I I M-SAP-13x	Spanish as a Foreign Language: (All levels: A1, A2, B1, B2, C1)	6	•	•	
I I M-SAP-14x	Spanish Language (Basic, Intermediate I, Intermediate II)	3			•

TECHNOLOGICAL, ELECTIVE COURSES & RESEARCH		ECTS	FALL	SPRING	SUMMER
DI M-OPT-436	3D Engineering Design with Dynamic Simulation	3		•	
DEA-OPT-438	Aerospace Electronics	3		•	
DEA-OPT-431	Automotive Electronics	3		•	
DI M-SAP-433	Automotive Engines	3		•	
DI M-SAP-434	Bio-Measurements	3		•	
DOI -OPT-439	Circular Economy and Eco-Industry	3		•	
DI E-OPT-434	Energy Economics: Primary Sources, Electric Power Systems and Market	3		•	
DI M-OPT-422	Fire Numerical Simulations	3		•	
DTC-SAP-247	Internet of Things (IoT): Basics and Practical Approach	3			•
DOI -OPT-445	Introduction to Entrepreneurship	3		•	•
DI M-OPT-432	Nanotechnology	3		•	
DI E-OPT-437	The Challenge of Future Electricity Systems	3		•	
XXX-SAP-49x	Research Project (I, II, III & IV)	4 each	•	•	•