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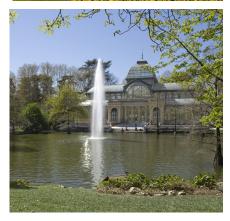
### **CONTACT INFORMATION:**

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Study Abroad Program for International Engineering Students SAPERS

ICAI School of Engineering Madrid (Spain) Academic Year 2024-2025



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This brochure is for informational purposes, not contractual.

#### 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 2024: from September 2<sup>nd</sup> to December 20<sup>th</sup>
- SPRING 2025: from January 13th to April 25th
- SUMMER 2025: from May 19<sup>th</sup> to July 11<sup>th</sup> (4 to 8 weeks)

Note: these periods include SAPIENS exams. ICAI (non-SAPIENS) exams may extend to January 10th (FALL) or May 21<sup>st</sup> (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 A. James Clark School of Engineering University of Maryland, College Park

			ECTS	FALL	SPRING	SUMMER
FUNDAMENIAL ENGINEEKING/SIEM COUKSES	DMA-SAP-431	Applied Linear Algebra	6		•	
	DIE-SAP-212	Electricity & Magnetism	6	•		
	DIE-SAP-354	Engineering Economy	6	•	•	•
	DIM-SAP-353	Engineering Fluid Mechanics	6		•	
	DOI-SAP-303	Engineering Statistics	6		•	
	DIM-SAP-336	Engineering Thermodynamics	6	•	•	•
	DIM-SAP-346	Environmental Engineering & Sustainability	6	•	•	
	DIM-SAP-167	General Chemistry	7.5	•		
	DTC-SAP-374	Introduction to Algorithms & Models of Computation	6		•	
	DMA-SAP-230	Introduction to Differential Equations	6	•	•	
	DIM-SAP-233	Introduction to Dynamics	6		•	
	DEA-SAP-235	Introduction to Electric & Electronic Circuits	7.5		•	
	DIM-SAP-337	Introduction to Materials & their Applications	6		•	
	DTC-SAP-234	Introduction to Python Programming	6		•	
	DIM-SAP-211	Introduction to Statics	6	•		
	DTC-SAP-333	Machine Learning & Artificial Intelligence with Python	6		•	
	DMA-SAP-241	Multivariable Calculus	6	•		
	DMA-SAP-437	Numerical Analysis	6		•	
	DIM-SAP-239	Principles of Molecular Cell Biology & Biotechnology	7.5		•	
	DIM-SAP-232	Quantum Physics	3		•	
	DIM-SAP-246	Sustainable Engineering Principles	4.5			•
	DIM-SAP-231	Thermal Physics	3		•	
HUMANITIES COURSES	TEO-SAP-123	Christianity & World Religions	3	•	•	•
	CAC-SAP-1xx	Cultural Electives (max. 3)	2 each	•	•	
	IIM-SAP-140	Spanish Culture	3	•	•	•
	DOI-SAP-130	Spanish Culture through Films	6	•	•	
	IIM-SAP-13x	Spanish as a Foreign Language: (All levels: A1, A2, B1, B2, C1)	6	•	•	
	IIM-SAP-14x	Spanish Language (Basic, Intermediate I, Intermediate II)	3			•
IECHNOLOGICAL, ELECTIVE COURSES & RESEARCH	DIM-OPT-436	3D Engineering Design with Dynamic Simulation	3		•	
	DEA-OPT-438	Aerospace Electronics	3		•	_
	DEA-OPT-431	Automotive Electronics	3		•	
	DIM-SAP-433	Automotive Engines	3		•	_
	DIM-SAP-434	Bio-Measurements	3		•	
	DEA-OPT-439	Biomedical Signals Processing	6		•	
	DOI-OPT-439	Circular Economy and Eco-Industry	3		•	
	DIE-OPT-434	Energy Economics: Primary Sources, Electric Power Systems and Market	3		•	
	DTC-SAP-247	Internet of Things (IoT): Basics and Practical Approach	3			•
	DOI-OPT-445	Introduction to Entrepreneurship	3		•	•
	DIM-OPT-432	Nanotechnology	3		•	
	DIE-OPT-437	The Challenge of Future Electricity Systems	3		•	
	XXX-SAP-49x	Research Project (max. 4)	4 each	•	•	•