comillas.edu

CONTACT INFORMATION:

ICAI School of Engineering

international.icai@comillas.edu

Tel. +34 91 5422800 ext. 2426
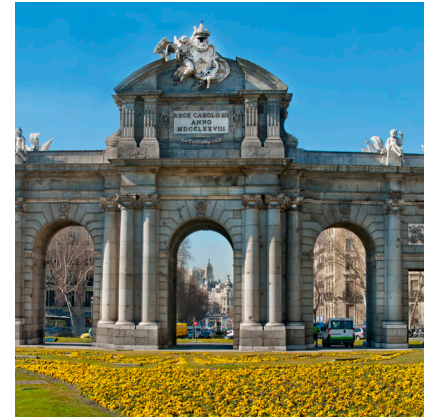
http://www.icai.comillas.edu/sapiens/

Follow us:

ICAI
SAPIENS

Study Abroad Program
for International Engineering Students

ICAI School of Engineering
Madrid (Spain)

Academic Year
2024-2025

COMILLAS
UNIVERSIDAD PONTIFICIA

ICAI

		ECTS	FALL	SPRING	SUMMER
FUNDAMENTAL ENGINEERING/STEM COURSES					
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 and 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 and 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		•	
CULTURE, LANGUAGE & HUMANITIES COURSES					
TEO-SAP-123	Christianity & World Religions	3	•	•	•
CAC-SAP-1xx	Cultural Electives	2 & 4	•	•	
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			•
TECHNOLOGICAL, 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 (I, II, III & IV)	4 each	•	•	•