



**Contact information:**

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## Study Abroad Program for International Engineering Students

# ICAI-SAPIENS



UNIVERSIDAD PONTIFICIA COMILLAS ICAI-ICADE  
Madrid (Spain)

**Spring / Summer 2018**



# ICAI School of Engineering 2018

## Description

ICAI-SAPIENS is a program designed for engineering students interested in gaining international experience without missing technical courses required for their graduation.

We offer a set of engineering courses taught in English and a set of Spanish Culture and Language courses which, combined with leisure activities, will get the students immersed in the Spanish Culture.

## Location



Calle Alberto Aguilera 23-25, 28015 Madrid, Spain.

The ICAI School of Engineering is located in downtown Madrid, within walking distance to the most significant historic landmarks in our city.

Madrid is conveniently situated in the center of Spain, with easy access (typically in less than 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.

## Summer SAPIENS

Courses may last from 4 to 8 weeks from mid-May to mid-July and, therefore, the starting date and the length of the stays (up to 8 weeks) are flexible.

**Intensive Technical Courses** such as

- DIM-SAP-246 Sustainable Engineering Principles.
- DTC-SAP-247 Internet of Things (IoT): Basics and Practical Approach
- DOI-SAP-245 Introduction to Entrepreneurship.

**Culture and Language Courses** including guided visits.

**Research Projects** supervised by professors of the school of engineering.



This has easily been the best semester of university so far. The Comillas students have made me feel completely at home and I appreciate my professors, all of whom go the extra mile to make sure we understand the material. The whole ICAI experience has been incredible and I couldn't have picked a better place to study abroad.

**Adithya Narayan**  
University of Illinois | Mech Engineering '18  
Engineering Council | Treasurer  
OTCR Consulting | Project Manager

## Spring SAPIENS

From January 9th to April 27th.

**Fundamental Engineering Courses** are meant to be equivalent to major subjects in a standard U.S. engineering sophomore year.

- DMA-SAP-230 Introduction to Differential Equations
- DIM-SAP-231 Thermal Physics
- DIM-SAP-232 Quantum Physics
- DIM-SAP-233 Introduction to Dynamics
- DEA-SAP-235 Introduction to Electric and Electronic Circuits
- DIM-SAP-239 Principles of Molecular Cell Biology and Biotechnology
- DIM-SAP-336 Thermodynamics
- DIM-SAP-337 Introduction to Materials and their Applications
- DMA-SAP-431 Applied Linear Algebra
- DMA-SAP-437 Numerical Analysis

**Technological Courses** recommended for international engineering students.

- DEA-OPT-431 Automotive Electronics
- DIM-OPT-432 Nanotechnology
- DIM-OPT-433 Automotive Engines
- DIE-OPT-434 Energy Economics: Primary Sources, Electric Power Systems and Markets
- DIM-OPT-436 3D Engineering Design with Dynamic Simulation
- DIE-OPT-437 The Challenge of Future Electricity Systems
- DEA-OPT-438 Aerospace Electronics
- DOI-OPT-439 Circular Economy and Eco-Industry

**Culture and Language Courses** provide an insight into the Spanish culture.

- IIM-SAP-140 Spanish Culture
- DOI-SAP-130 Spanish Culture through Films
- Spanish language courses: levels A1, A2, B1, B2 and C1
- Other language courses

**Research Projects** supervised by professors of the school of engineering.

**Additional Technological Courses and Business Courses** offered at the ICAI School of Engineering are also available to SAPIENS students, either in English or Spanish. Schedule compatibility should be checked before registration, considering that the exam period may extend until May 23rd.