Universidad Politécnica de Madrid
E.T.S.I. CAMINOS, CANALES Y PUERTOS, SCHOOL OF CIVIL ENGINEERING (ETSICCP)

2026-2027 academic year

First-Fall Semester	Second-Spring Semester

BEng in Civil Engineering (Grado en Ingeniería Civil y Territorial)

CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER	CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER
45001203	English	6	2nd	1st					2nd
45000227	English	6	3rd	1st					

BSc in Materials Engineering (Grado en Ingeniería de Materiales)

CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER	CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER
45000120	Mechanical behaviour of materials III	6	3rd	1st	45000125	Mechanical behaviour of materials IV	6	3rd	2nd
45000121	Properties of materials II	6	3rd	1st	45000126	Nanotechnology	6	3rd	2nd
45000122	Composite materials	6	3rd	1st	45000127	Surface engineering	6	3rd	2nd
45000123	Simulation in materials engineering	6	3rd	1st	45000128	Materials recycling	6	3rd	2nd
45000129	Soft matter	6	3rd	1st	45000124	Quality and quality management	6	3rd	2nd

MSc in Civil Engineering (Máster en Ingeniería de Caminos, Canales y Puertos)

CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER	CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER
43000384	Experimental structural analysis	4,5	2nd	1st	43000390	Advanced analysis and design of concrete structures	4,5	2nd	2nd
43000467	Introduction to optimization techniques	4,5	2nd	1st	43000391	Dynamic and seismic analysis of structures	4,5	2nd	2nd
43000418	Public-private partnership in infrastructure, facilities and utilities	4,5	2nd	1st	43000397	Structural composite materials	4,5	2nd	2nd
				1st	43000404	Hydroelectric systems analysis	4,5	2nd	2nd
				1st	43000406	Marine energies	4,5	2nd	2nd
				1st					
				1st	43000420	Development and civil engineering	4,5	2nd	2nd
				1st	43000422	Finance infrastructure and public services	4,5	2nd	2nd
				1st	43000423	Global economy and international enviroment in Business Administration	4,5	2nd	2nd
				1st	43000411	Transports demands models	4,5	2nd	2nd

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MSc in Materials Engineering (Máster en Ingeniería de Materiales)

CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER	CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER
43000600	Advance Manufacturing of Structural Materials	3	1st	1st	43000607	Estructural Design	3	1st	2nd
43000601	Advance Manufacturing of Functional Materials	3	1st	1st	43000608	Impact Mechanics	3	1st	2nd
43000602	Modelling and Simulation in Materials Science and Engineering	6	1st	1st	43000609	Structural Integrity	3	1st	2nd
43000603	Microstructural Characterization	6	1st	1st	43000610	Forensic Engineering	3	1st	2nd
					43000611	Alloy Design And Advanced Physical Metallurgy	3	1st	2nd
43000604	Properties of Materials	5	1st	1st	43000612	Nanocomposites And Nanostructured Hybrid Materials	3	1st	2nd
43000605	Biological Materials	5	1st	1st	43000613	Materials for extreme conditions	3	1st	2nd
43000606	Materials for Energy	3	1st	1st	43000614	Polymers	3	1st	2nd
43000644	Physics And Chemistry Of Materials	3	1st	1st	43000615	Introduction To Research In Materials Science And Engineering - Structural Materials	3	1st	2nd
					43000616	Electrochemistry For Energy-Related Applications	3	1st	2nd
43000645	Mechanics Of Materials	3	1st	1st	43000617	Photovoltaic Materials And Devices	3	1st	2nd
				1st	43000618	Materials For Photonic Devices	3	1st	2nd
				1st	43000619	Nanoelectronics	3	1st	2nd
				1st	43000620	Solid State Lighting	4	1st	2nd
				1st	43000621	Metamaterials And Plasmonics	3	1st	2nd
				1st	43000622	Future Magnetic Materials	3	1st	2nd
				1st	43000623	Laboratory Of Nanoelectonics	3	1st	2nd
				1st	43000624	Introduction To Research In Materials Science And Engineering - Functional Materials	3	1st	2nd
				1st	43000643	Master Dissertation	30	1st	1 year
				1st					
				1st					

MSc in Structure, Foundations and Materials Engineering

Subjects may be finally taught in Spanish at the request of most of the students

CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER	CODE	COURSE TAUGHT IN ENGLISH	ECTS	YEAR	SEMESTER
				1st	43000658	Design, analysis and construction bridges	3	1st	2nd
				1st	43000659	Bridge dynamics	1,5	1st	2nd
				1st	43000661	Advanced analysis and design of concrete structures	3	1st	2nd
				1st	43000665	Computational mechanics	3	1st	2nd
				1st	43000678	SEMINARS	1,5	1st	1st, 2nd
				1st	43000679	SEMINARS AND THESIS INTRODUCTION	1,5	1st	1st, 2nd
				1st					
				1st					