

BACHELOR COURSES IN ENGLISH

	CODE	SUBJECT	ECTS	WEB	PROGRAM	
FALL	250120	STRENGTH OF MATERIALS AND STRUCTURES	9	https://portal.camins.upc.edu/ocw/home.htm?execution=e1s1	GEC 2010	
	250122	DIFFERENTIAL GEOMETRY AND DIFFERENTIAL EQUATIONS	9	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250122&idioma=3		
	250124	CONSTRUCTION MATERIALS	6	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250124&idioma=3		
	250126	DESCRIPTIVE GEOMETRY	6	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250126&idioma=3		
	250131	SOIL MECHANICS	9	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250131&idioma=3		
	250132	STRUCTURAL ANALYSIS	7.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250132&idioma=3		
	250134	ROADS AND RAILWAYS	7.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250134&idioma=3		
	250136	URBANISM	6	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250136&idioma=3		
	250140	CONCRETE STRUCTURES	7.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250140&idioma=3		
	250142	HYDRAULIC CONSTRUCTIONS	4.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250142&idioma=3		
	250143	MARITIME AND PORT ENGINEERING	6	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250143&idioma=3		
	250144	SURFACE AND GROUNDWATER HYDROLOGY	4.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250144&idioma=3		
	250145	GEOTECHNICAL ENGINEERING	4.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250145&idioma=3		
	250146	GEOLOGICAL ENGINEERING	4.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250146&idioma=3		
	2500023	SURFACE AND GROUNDWATER HYDROLOGY I	6,0			GEC 2020
	2500031	GEOTECHNICAL ENGINEERING	4,5			
2500042	ENVIRONMENTAL IMPACT ON MARITIME WORKS	4,5				

GEC 2010 : GRAU EN ENGINYERIA CIVIL / BACHELOR IN CIVIL ENGINEERING 2010 curricula

GEC 2020: GRAU EN ENGINYERIA CIVIL / BACHELOR IN CIVIL ENGINEERING 2020 curricula

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SPRING	250121	CONTINUUM MECHANICS	9	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250121&idioma=3	GEC 2010
	250123	PROBABILITY AND STATISTICS	7.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250123&idioma=3	
	250125	GEOMATICS AND GEOGRAPHIC INFORMATION	6	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250125&idioma=3	
	250127	CONSTRUCTION MANAGEMENT AND ELECTROTECHNICS	7.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250127&idioma=3	
	250130	HYDRAULICS AND HYDROLOGY	9	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250130&idioma=3	
	250133	NUMERICAL MODELLING	9	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250133&idioma=3	
	250135	ENVIRONMENTAL ENGINEERING	6	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250135&idioma=3	
	250137	TRANSPORTATION	6	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250137&idioma=3	
	250141	STEEL STRUCTURES	6	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250141&idioma=3	
	250143	MARITIME AND PORT ENGINEERING	6	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250143&idioma=3	
	250144	SURFACE AND GROUNDWATER HYDROLOGY	4.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250144&idioma=3	
	250146	GEOLOGICAL ENGINEERING	4.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250146&idioma=3	
	250147	PROJECTS AND BUSINESS ORGANISATION	4.5	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250147&idioma=3	
	2500017	NUMERICAL METHODS IN ENGINEERING	6,0		GEC 2020

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GEC 2020: GRAU EN ENGINYERIA CIVIL / BACHELOR IN CIVIL ENGINEERING 2020 curricula

MASTER COURSES IN ENGLISH

FALL	CODE	SUBJECT	ECTS	SEMESTER	WEB	PROGRAM
	250401	MECHANICS OF CONTINUA	9	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250401&idioma=3	MECCP
	250402	NUMERICAL MODELLING	9	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250402&idioma=3	
	250406	COMPUTATIONAL ENGINEERING	6	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250406&idioma=3	
	250407	GEOMECHANICAL AND GEOTECHNICAL ENGINEERING	6	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250407&idioma=3	
	250409	PLANNING AND MANAGEMENT OF TRANSPORTATION	6	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250409&idioma=3	
	250430	URBAN HYDROLOGY	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250430&idioma=3	
	250433	PORT AND OFFSHORE ENGINEERING	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250433&idioma=3	
	250440	COMPUTATIONAL ENGINEERING FOR DESIGN AND OPERATION	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250440&idioma=3	
	250450	URBAN MOBILITY	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250450&idioma=3	
250470	BUILDING STRUCTURES	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250470&idioma=3		
250472	ANALYSIS AND DESIGN OF STEEL STRUCTURES	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia?codiUpcUd=250472&idioma=3		
250710	INSPECTION, ANALYSIS AND RESTORATION OF HISTORICAL CONSTRUCTIONS	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250710&idioma=3	MEEC	
250701	Construction Management / Construction methods and managment	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia?codiUpcUd=250701&idioma=3		
250728	Foundation Structures	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia?codiUpcUd=250728&idioma=3		
250818	CONSTITUTIVE EQUATIONS OF MATERIALS	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250818&idioma=3	MET	
250828	HYDROMETEOROLOGICAL PROCESSES AND THEIR INTERACTIONS WITH THE GROUND	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250828&idioma=3		
250950	NUMERICAL METHODS FOR PDES	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250950&idioma=3	MMNE/MSCM	
250951	FINITE ELEMENT	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250951&idioma=3		
250952	CONTINUUM MECHANICS	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250952&idioma=3		
250954	ADVANCED FLUID MECHANICS	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250954&idioma=3		
250960	COMMUNICATION SKILLS 1	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250960&idioma=3		
250961	COMPUTATIONAL MECHANICS TOOLS	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250961&idioma=3		
250964	ENTREPRENEURSHIP	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250964&idioma=3		
250965	ADVANCED DISCRETIZATION METHODS	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250965&idioma=3		
250967	COMMUNICATION SKILLS 2	5	Q1-First sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250967&idioma=3		

FALL

29850	MATHEMATICS	6	Q1-First sem	http://master.euroaquae.eu/files/live/sites/mea/files/courses/about/EA_handbook_2010.pdf	EUROAQUAE
29851	HYDRAULICS	6	Q1-First sem	http://master.euroaquae.eu/files/live/sites/mea/files/courses/about/EA_handbook_2010.pdf	
29852	HYDROLOGY	6	Q1-First sem	http://master.euroaquae.eu/files/live/sites/mea/files/courses/about/EA_handbook_2010.pdf	
29854	INTRODUCTION TO GIS AND DATABASES	6	Q1-First sem	http://master.euroaquae.eu/files/live/sites/mea/files/courses/about/EA_handbook_2010.pdf	
29856	NEURAL NETWORKS APPLIED TO DECISION SUPPORT SYSTEM	3	Q1-First sem	http://master.euroaquae.eu/files/live/sites/mea/files/courses/about/EA_handbook_2010.pdf	
29857	URBAN DRAINAGE	5	Q1-First sem	http://master.euroaquae.eu/files/live/sites/mea/files/courses/about/EA_handbook_2010.pdf	
29858	FLOOD RISK MANAGEMENT	5	Q1-First sem	http://master.euroaquae.eu/files/live/sites/mea/files/courses/about/EA_handbook_2010.pdf	
29859	REAL TIME CONTROL IN IRRIGATION CANALS	5	Q1-First sem	http://master.euroaquae.eu/files/live/sites/mea/files/courses/about/EA_handbook_2010.pdf	
480021	FUNDAMENTALS OF MATHEMATICAL AND SYSTEMIC SUSTAINABILITY MODELLING	5	Q1-First sem	http://www.upc.edu/estudispdf/guia_docent.php?codi=480021&lang=ing	
480152	SUSTAINABLE DESIGN OF PRODUCTS AND SERVICES	5	Q1-First sem	http://www.upc.edu/estudispdf/guia_docent.php?codi=480152&lang=ing	
480171	COMPLEX AND SOCIO-ENVIRONMENTAL NETWORKS	5	Q1-First sem	http://www.upc.edu/estudispdf/guia_docent.php?codi=480171&lang=ing	
480602	CONSTRUCTION AND BUILDING CONSTRUCTION ENGINEERING AND TECHNOLOGIES	5	Q1-First sem	http://www.upc.edu/estudispdf/guia_docent.php?codi=480602&lang=ing	
250911	Debris Flow Risk and Resilience Assesment	5	Q1-First sem	https://www.floodriskmaster.org/courses	MSFRM
250912	Coastal flooding: impacts, conflicts and risks	4	Q1-First sem	https://www.floodriskmaster.org/courses	
250913	Droughts Risk and Resilience assesment	3	Q1-First sem	https://www.floodriskmaster.org/courses	
250910	Fluvial Morphodynamics	5	Q1-First sem	https://www.floodriskmaster.org/courses	
250914	Flood early warning systems using hydrometeorological forecasting	3	Q1-First sem	https://www.floodriskmaster.org/courses	

MECCP: MASTER EN ENGINYERIA DE CAMINS, CANALS I PORTS / MASTER IN CIVIL ENGINEERING (CHARTERED)

MMNE: MASTER EN METODES NUMERICS EN ENGINYERIA / MASTER IN NUMERICAL METHODS IN ENGINEERING

MET: MASTER EN ENGINYERIA DEL TERRENY / MASTER IN GEOTECHNICAL ENGINEERING

MEEC: MASTER ENGINYERIA ESTRUCTURAL I DE LA CONSTRUCCIÓ/ MASTER IN STRUCTURAL AND CONSTRUCTION ENGINEERING

EUROAQUAE: HYDROINFORMATICS AND WATER MANAGEMENT

MSCM: COMPUTATIONAL MECHANICS

COMEM: COASTAL AND MARINE ENGINEERING AND MANAGEMENT

MCTS: SUSTAINABILITY SCIENCE & TECHNOLOGY

MEA: MASTER'S DEGREE IN ENVIRONMENTAL ENGINEERING

MASTER COURSES IN ENGLISH

SPRING	CODE	SUBJECT	ECTS	SEMESTER	WEB	PROGRAM
	250406	COMPUTATIONAL ENGINEERING	6	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250406&idioma=3	MECCP
250407	GEOMECHANICAL AND GEOTECHNICAL ENGINEERING	6	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250407&idioma=3		
250409	PLANNING AND MANAGEMENT OF TRANSPORTATION	6	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250409&idioma=3		
250422	INTERACTION BETWEEN GROUNDWATER AND CIVIL WORKS	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250422&idioma=3		
250439	NUMERICAL MODELS IN CIVIL AND STRUCTURAL ENGINEERING	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia?codiUpcUd=250439&idioma=3		
250443	MACHINE LEARNING AND MODELS FOR DECISION MAKING	5	Q2-Second Sem	https://portal.camins.upc.edu/public/guia?codiUpcUd=250443& curs=2018&ididioma=3		
250470	BUILDING STRUCTURES	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250470&idioma=3		
250473	ADVANCED DESIGN OF CONCRETE STRUCTURES	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia?codiUpcUd=250473&idioma=3		
250706	STRUCTURAL ANALYSIS SEMINARS	2.5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250706&idioma=3	MEEC	
250727	PERFORMANCE BASED SEISMIC DESIGN AND ASSESSMENT OF STRUCTURES	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250727&idioma=3		
250714	STRUCTURAL TECHNOLOGY SEMINARS	2.5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia?codiUpcUd=250714&idioma=3		
250725	Structural Engineering	6	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia?codiUpcUd=250725&idioma=3		
250700	Fundamentals of Structural Design	6	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia?codiUpcUd=250700&idioma=3		
250702	Workshops and Research Seminars - ** (Not recommended for incoming students as it is aimed at the Master in Structural Engineering students who will start their Master Thesis)	5.5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia?codiUpcUd=250702&idioma=3		
250730	STRUCTURAL OPTIMIZATION	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/home?execution=e1s6		
250955	PROGRAMMING FOR ENGINEERS AND SCIENTISTS	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250955&idioma=3	MMNE/MSCM	
250956	COMPUTATIONAL SOLID MECHANICS	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250956&idioma=3		
250957	FINITE ELEMENTS IN FLUIDS	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250957&idioma=3		
250958	COMPUTATIONAL STRUCTURAL MECHANICS AND DYNAMICS	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250958&idioma=3		
250963	COUPLED PROBLEMS	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250963&idioma=3		
250970	DOMAIN DECOMPOSITION AND LARGE SCALE SCIENTIFIC COMPUTING	5	Q2-Second Sem	https://portal.camins.upc.edu/ocw/guia.htm?codiUpcUd=250970&idioma=3		
480042	RESEARCH-ACTION WORKSHOP ON SUSTAINABILITY SCIENCE AND TECHNOLOGIES	5	Q2-Second Sem	http://www.upc.edu/estudispdf/guia_docent.php?codi=480042&lang=ing	MCTS	
480071	BIODIVERSITY AND SOCIO-ECOLOGICAL SYSTEMS	5	Q2-Second Sem	http://www.upc.edu/estudispdf/guia_docent.php?codi=480071&lang=ing		
480081	URBAN METABOLISM AND ECOLOGICAL URBANISM	5	Q2-Second Sem	http://www.upc.edu/estudispdf/guia_docent.php?codi=480081&lang=ing		
480093	SOCIO-ENVIRONMENTAL DATA SCIENCE	5	Q2-Second Sem	http://www.upc.edu/estudispdf/guia_docent.php?codi=480093&lang=ing		

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EUROAQUAE: HYDROINFORMATICS AND WATER MANAGEMENT

MSCM: COMPUTATIONAL MECHANICS

COMEM: COASTAL AND MARINE ENGINEERING AND MANAGEMENT

MCTS: SUSTAINABILITY SCIENCE & TECHNOLOGY

MEA: MASTER'S DEGREE IN ENVIRONMENTAL ENGINEERING

Master in Supply Chain, Transport and Mobility Management (Transport and Mobility Management specialization)

CODE	ECTS	SUBJECT	SEMESTER	WEB
250ST2132	5	TRAFFIC	AUTUMN	https://guiadocent.etsib.upc.edu/guiadocent/profile/default/action/viewDegreeTab.php?degree=1104&lang=ca#simgen
250ST2034	5	SMART MOBILITY	AUTUMN	
250ST2122	5	FREIGHT TRANSPORT	AUTUMN	
250ST2023	5	PORT MANAGEMENT AND MARITIME TRANSPORT	AUTUMN	
250ST2024	5	AIRPORTS MANAGEMENT	AUTUMN	
250ST2031	5	VEHICLE ROUTING	AUTUMN	
250ST2131	5	OPTIMISATION MODELS FOR TRANSPORT NETWORKS	SPRING	
250ST2036	5	SUSTAINABLE AND GREEN MOBILITY	SPRING	
250ST022	5	TRANSPORT SYSTEMS DEMAND	SPRING	
250ST2121	5	PUBLIC TRANSPORT	SPRING	
250ST2021	5	TRAFFIC SIMULATION MODELS	SPRING	
250ST2025	5	RAILWAY TRANSPORT	SPRING	
250ST2035	5	DEVELOPING MOBILITY (C+D)	SPRING	