

Double Degree Master Programme between Roma la Sapienza and Universitat Politècnica de Catalunya-UPC

This DD master program consists of several courses from the existing Master in Civil Engineering at Roma la Sapienza and Master in Civil Engineering at UPC (chartered program in Spain that allows graduates to enroll the Spanish Civil Engineer Association, professional degree).

Master in Civil Engineering at Roma la Sapienza

Master in Civil Engineering at Camins-UPC, Specialties in Structural and Construction Engineering OR Geotechnical Engineering

Academic track SPECIALTY IN GEOTECHNICAL ENGINEERING

University	Courses	ECTS	Equivalent courses at Roma Sapienza
1st year at UPC MECCP	Water engineering	6	Progetto di opere Idrauliche
	Hydraulic infrastructure	4,5	
	Geotechnical design and construction	6	Fondazioni e opere di sostegno
	Geomechanical and geotechnical engineering	6	
	Planning and management of transportation	6	Progetto e costruzione di strade
	Computational Engineering	6	
	Structural analysis	7,5	Progetto di costruzioni antisismiche
	Structural engineering	6	
	Mechanics of continua	9	Two courses between: Legislazione delle opere pubbliche e dei lavori; Monitoraggio geomatico; Principi di ingegneria elettrica; Tecnica urbanistica
	Numerical modelling	9	
			English B2
	Total ECTS 1st year	66	

University	Courses	ECTS	Equivalent courses at UPC	
2nd year at Roma La Sapienza	Meccanica delle rocce	6	Tunnels and rock mechanics	
	Slope stability	6	Geomechanics of breakage	
	Hydraulic risk adaptation and mitigation measures	6	Interaction between groundwater & civil works	
	Geotechnical Earthquake Engineering	6	Three courses between specialty elective courses at UPC: Structural management; Mixed & composite structures; Seismic risk assessment & reduction	
	Complementi di meccanica delle terre	6		
	One exam as student's choice: Gallerie profonde	6		
	One exam as student's choice: Deep excavations and tunnelling in the urban environment	6	Thesis (TFM also enrolled and defended at UPC)	
	Master Thesis	15		
		Total ECTS 2nd year	57	

TOTAL ECTS	123
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