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 STRUCTURAL & CONSTRUCTION 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	
	Computational Engineering	6	Fondazioni e opere di sostegno
	Geomechanical and geotechnical engineering	6	
	Planning and management of transportation	6	Progetto e costruzione di strade
	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	
	Total ECTS 1st year	**60**	

University	Courses	ECTS	Equivalent courses at UPC
2nd year at Roma	Advances structural design	6	Building structures
	Teoria e progetto di ponti	6	Bridges
	Steel structures design	6	Analysis & design of steel structures
	Seismic assessment and retrofit strategies for existing reinforced concrete buildings	6	Advanced design of concrete structures
	Analysis and reduction of construction seismic risk	6	Seismic risk assessment and reduction
	Free choice of two courses between:		
	Finite elements in structural analysis	12	Structural Management
	Gestione di ponti e di grandi strutture		Miexed and composite structures
	Dinamica delle strutture		
	Meccanica delle strutture bidimensionali		
	English B2	3	Thesis
	Master Thesis	15	
	Total CTS 2nd year	**60**	

	TOTAL ECTS	**120**	