



DIPARTIMENTO DI INGEGNERIA CIVILE ARCHITETTURA, TERRITORIO, AMBIENTE E DI MATEMATICA



# Outline

A 2-year Master of Science Degree Programme, taught in English, is offered at the Department of Civil, Environmental, Architectural Engineering, and Mathematics of Università degli Studi di Brescia, in Italy. To be eligible, students should have a 3-year Bachelor's Degree or equivalent in Civil Engineering or in Environmental Engineering, with a sound background in Calculus, Physics, Chemistry, Fluid mechanics and Structural mechanics. A good English proficiency is required (CEFR B2). Student exchange programs with foreign Universities are available as well as scholarships for foreign students (calls open in spring).





#### Laurea Magistrale Internazionale-International Master degree

## Civil and Envinronmental Engineering – 1st year

(in English language)



#### LAUREA MAGISTRALE (MSc Degree) IN CIVIL AND ENVIRONMENTAL ENGINEERING **FIRST YEAR ECTS** Position Subject Semester ENVIRONMENTAL HYDRAULICS 9 S2 2 9 STRUCTURAL DESIGN S1 GEOTECHNICAL ENGINEERING S1 3 9 4 STRUCTURAL DYNAMICS AND SEISMOLOGY 9 S2 URBAN PLANNING AND RISK MITIGATION-BASIC PRINCIPLES OF URBAN PLANNING + 6 S1 5 URBAN PLANNING AND RISK MITIGATION-PLANNING AND RISK MITIGATION 3 S1 6 BUILDING PERFORMANCE ENGINEERING 9 S2





### Laurea Magistrale Internazionale–International Master degree Civil and Envinronmental Engineering – 2<sup>nd</sup> year

Major in Environmental and Civil Engineering (both in English language)

	SECOND YEAR		
Position	Subject	ECTS	Semester
7	HYDRAULIC STRUCTURES	9	S1
8	REINFORCED CONCRETE STRUCTURES	9	S1
9	CLIMATE CHANGE ADAPTATION AND MITIGATION	6	S1
	or STRUCTURAL REHABILITATION	6	S1
10	DESIGN OF SEISMIC RESISTANT STRUCTURES	9	S1
	or WATER AND WASTE TREATMENT PLANT DESIGN	9	S2
11	ADVANCED GEOMATICS	9	S2
12	APPROPRIATE ENVIRONMENTAL TECHNOLOGIES FOR RESOURCE LIMITED COUNTRIES	6	S2
	or ARCHITECTURAL RESTORATION AND CONSERVATION	6	S2
13	ELECTIVE SUBJECTS or INTERNSHIP	9	
14	MASTER THESIS	12	
	Suggested elective subjects in English language		
	Remote sensing	9	S1
	Mathematical models and simulation for the environment	6	S1





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