



UNIVERSITY  
OF BRESCIA



# INTERNATIONAL MASTER OF SCIENCE IN CIVIL AND ENVIRONMENTAL ENGINEERING



*This Master of Science Degree, taught in English, is offered at the Department of Civil, Environmental, Architectural Engineering and Mathematics at the University of Brescia, Italy. To be eligible, students should have a 3-year Bachelor's Degree or equivalent in Civil Engineering or in Environmental Engineering, with a background in Calculus, Physics, Chemistry, Fluid mechanics and Structural mechanics. A B2-level of English is required. Student exchange programmes with foreign Universities are available.*

■ *Call for scholarships for foreign students are published in winter.*

## FIRST YEAR

(semester S1=1st; S2=2nd - ECTS credits)

- |                                      |        |
|--------------------------------------|--------|
| 1.Environmental hydraulics           | (S2-9) |
| 2.Structural design                  | (S1-9) |
| 3.Geotechnical engineering           | (S1-9) |
| 4.Structural dynamics and seismology | (S2-9) |
| 5.Urban planning and risk mitigation | (S2-9) |
| 6.Building performance engineering   | (S1-9) |

### Elective subjects (2nd year)

- Remote sensing
- Mathematical models and simulation for the environment

## SECOND YEAR

- |  |                  |
|--|------------------|
| 7.Hydraulic structures   | (S1-9)           |
| 8.Reinforced concrete structures   | (S1-9)           |
| 9.Climate change adaptation and mitigation<br>or Structural rehabilitation   | (S1-6)<br>(S1-6) |
| 10.Design of seismic resistant structures<br>or Water and waste treatment plant design                                       | (S2-9)<br>(S1-9) |
| 11.Advanced geomatics  | (S2-9)           |
| 12.Appropriate environmental technologies<br>for resource limited countries<br>or Architectural restoration and conservation | (S2-6)<br>(S2-6) |
| 13. Elective subject/internship  | ( 9 )            |
| 14. Final Thesis dissertation  | ( 1 2 )          |



DEPARTMENT OF CIVIL, ENVIRONMENTAL,  
ARCHITECTURAL ENGINEERING  
AND MATHEMATICS



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