

International Doctorate in Civil and Environmental Engineering

DOCTORAL COURSE

Risk management for natural hazards

Teacher: Prof. **Marco Uzielli**

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Calendar	
22/06/2020, 9,30-11,30	Trends, concepts, and frameworks: Current impact of natural hazards; the disaster risk management cycle; the ISO risk framework.
23/06/2020, 9,30-11,30	Risk estimation: quantitative modeling of hazard, vulnerability, and exposure.
26/06/2020, 9,30-11,30	Example applications from commercial and research projects.
02/07/2020, 9,30-11,30	Oral presentations by students
Total	8 hours – 4 credits

Program
<p>Risk is an increasingly relevant concept in the management of human communities and the environment. The increasing impact of natural hazards, including the effects of climate change, requires a more rational, quantitative approach to risk-based decision-making.</p> <p>This course will provide a technical overview of the concept of risk for human-values assets to natural hazards. Conceptual frameworks and operational methods will be illustrated as well as case-study applications.</p> <p>Course participants will be tested through a 10-minute oral presentation on a topic of their choice.</p>