

Risk Management in Civil and Environmental Engineering

Professor

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Institution

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General Information

Risk is a central concept in the management of human communities and of the environment. The surging impact of natural hazards, including the effects of climate change, requires a rational, quantitative approach to risk-based decision-making in civil and environmental engineering. This course will provide an overview of risk management from an engineering perspective. Conceptual frameworks and operational methods will be illustrated as well as case-study applications. The course will adopt a highly interactive approach. Participants will select a literature contribution and produce a short oral presentation focusing on its synthesis and critical analysis. Work will be conducted during collegial tutored interactive online sessions which will provide additional theoretical and practical insights into course contents.

Materials

Course materials will be provided by the Lecturer through a dedicated Moodle page. All course activities will be held online.

Schedule

Dates	Description
March 06, 2025 14:00-17:00	Course introduction; Lecture L01 - Risk: figures, concepts, and frameworks
March 12, 2025 14:00-17:00	Lecture L02 – Risk estimation
March 19, 2025 14:00-17:00	Lecture L03 – Example applications
March 26, 2025 14:00-17:00	Individual project – Tutored work session 1
April 10, 2025 14:00-17:00	Individual project – Tutored work session 2
April 30, 2025 09:00-12:00	Individual project – Tutored work session 3
May 07, 2025 14:00-17:00	Individual project – Tutored work session 4; Quiz
May 21, 2025 14:00-17:00	Individual project presentation
Total 24 Hours - 4 Credits	

Additional information

For any additional inquiries, please contact www.indicee.unifi.it - dott-dicea@unifi.it.