



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

# Risk @ UNIBO

## Multidisciplinary approaches to risk management

**Risk group @ UNIBO**

18 May – 15 June, 2018

Alma Mater Studiorum, University of Bologna

# Objective

The idea of this course, which is mainly addressed to the PhD candidates community of the University of Bologna, is to discuss with an informative character how **risk** is interpreted and managed in different fields of study and research. Lectures will be given by UNIBO researchers focusing on risk management from different perspectives.

The meeting should also highlight and cluster **UNIBO's expertise** in terms of risk with the idea of reaching a critical mass for future dissemination and project actions (e.g. H2020).

# Contents

- Risk definitions, elements of probability, risk assessment and analyses
- Specific risks in various scenario (seismic, landslide, polluted sites, tsunami, flood, alluvial, explosion, terrorist attack, digital)
- Domino effect, risk management, loss estimation
- Case studies and lesson learned



# Lectures

1. **Risk, perception, communication**, Luca Pietrantoni (Dept. of Psychology)
2. **Groundwater contamination by chlorinated hydrocarbons: identification of the polluter and pathways for human exposure**, Maria Filippini (BIGEA)
3. **International and EU Disaster Law**, Federico Casolari (Dept. of Legal Studies)
4. **Earthquake: facts and fakes**, Silvia Castellaro (Dept. of Physics and Astronomy)
5. **The statistical approach to risk analysis: methods and case studies**, Massimo Ventrucchi (Department of Statistical Sciences)
6. **Seismic assessment and fragility analysis of industrial buildings in seismic areas – a case study after 2012 Emilia earthquake**, Marco Savoia (DICAM)
7. **Flood risk assessment and management: a systems approach for an ever evolving world**, Attilio Castellarin (DICAM)
8. **Technological risk and cascading events**, Valerio Cozzani (DICAM)
9. **Decision-making under risk: psychological and neural mechanisms**, Giuseppe Di Pellegrino (Department of Psychology)
10. **Floods and Landslides in a Geo-Historical Perspective**, Stefano Piastra (Dept. of Education)



# Timetable

Weekly meeting, Friday 2-4 pm

Time	18 May	25 May	1 June	8 June	15 June
2 – 3 pm	<b>Pierantoni</b>	<b>Casolari</b>	<b>Ventrucci</b>	<b>Castellarin</b>	<b>Di Pellegrino</b>
3 – 4 pm	<b>Filippini</b>	<b>Castellaro</b>	<b>Savoia</b>	<b>Cozzani</b>	<b>Piastra</b>

Friday 18 May, 2-4 pm - Aula G Complesso via Belmeloro

Friday 25 May, 2-4 pm - Aula H Complesso via Belmeloro

Friday 1 June, 2-4 pm - Aula H Complesso via Belmeloro

Friday 8 June, 2-4 pm - Sala Feste Palazzo Malvezzi (via Zamboni 22)

Friday 15 June, 2-4 pm - Aula H Complesso via Belmeloro





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