

Code	IE534
Name	Risk Modeling, Assessment, and Management
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate
Semester	Fall or Spring
Type	Compulsory
Prerequisites	IE511, IE521
Content	The course introduces the state of the art of risk analysis, a rapidly growing field with important applications in engineering, science, manufacturing, business, healthcare, homeland security, management, and public policy. How to quantify risk and construct probabilities for real-world decision-making problems, including a host of institutional, organizational, and political issues are discussed with real-world case studies. Sample issues to study are risk management and assessment process, decision making with single and multiple objectives, fault trees, terrorism and extreme event risk modeling.