Universitat Autònoma de Barcelona

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Risk Analysis

Code: 101829
ECTS Credits: 6

Degree	Type	Year	Semester
2502501 Prevention and Integral Safety and Security	FB	1	1

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: No
Some groups entirely in Spanish: No

Other comments on languages

Hi ha documentació en anglès - Hay documentación en inglés

Prerequisites

This subject doesn't have any pre-requierments

Objectives and Contextualisation

The subject of risk analysis is one of the key conceptual frameworks in order to understand the current dynamics of the security and prevention sectors. This subject aims to offer the student the basic concepts related to social transformation phenomena that are related to the configuration of uncertainty frameworks, as well as to guide the student through the latest scientific advances that offer new methodologies of government as well as new intra-systemic risks.
The subject will begin by setting the conceptual bases of risk and uncertainty from an epistemological approach and then go on to analyze some of the current approaches to the phenomenon, paying special attention to "The risk society" by Ulrich Beck, the notion of manufactured risks of Anthony Giddens, the post-normal time of Ziauddin Sardar and the post-normal science of Jerome Ravetz and Silvio Funtowicz
Next, the relationship between these more metatheoretical concepts will be displayed with some of the most controversial current debates such as those related to the relationship between society and technology, climate change, forced migration, new industrial processes or the crystallization of new technologies such as bio-technology and nanotechnology.
Finally, and as a final point of the subject, we will analyze several approaches to risk governance, focusing our efforts on the proposal of Klinke and Renn to then analyze the forms and strategies of risk communication while exploring the notion of the precautionary principle.

- Analyze the role of the Social Sciences (CCSS) in knowledge about risk
- Know the methodological debate within the scientific disciplines
- Know the concepts associated with the risk, as well as the theoretical models that accompany it: Systemic Risks, Risks manufactured, risk society, postnormal science as well as practical applicability
- Interiorization and adaptation of the concepts of risk, risk analysis, governance, Prevention ...
- Development of case studies based on these concepts.
- Know the decision-making processes and their different implications in the field of Risk
- Analyze existing discursive strategies to deal with various types of risk.

Competences

- Assume the social, ethical and professional responsibility that derives from professional practice.
- Carry out analyses of preventative measures in the area of security.
- Communicate information , ideas, problems and solutions to both specialised and non-specialised publics.
- Maintain a positive attitude with respect to professional and personal growth.
- Respond to problems applying knowledge to practice.
- Use the capacity for analysis and synthesis to solve problems.

Learning Outcomes

1. Analyse specific risks and understand the prevention mechanisms.
2. Apply the different concepts involved in the internal and external communication of an organisation.
3. Assume the social, ethical and professional responsibility that derives from professional practice.
4. Maintain a positive attitude with respect to professional and personal growth.
5. Respond to problems applying knowledge to practice.
6. Use the capacity for analysis and synthesis to solve problems.

Content

This subject has a specific manual for it, which has eight teaching units, each of which would cover a temporary space of 2 weeks. Each didactic unit will have, apart from the own agenda included in the Manual with a mandatory reading per module, plus other readings of a voluntary nature and documentary type activities.
Introduction to the subject
Teaching Unit 1
1.1 Introduction
1.2 The risk today
1.3 A brief history of risk
1.4 Definition of Risk
Evaluation exercises
Teaching Unit 2
2.1 Extension of the Risk
2.1.1 Material scope / objective of the extension of the risk
2.1.2 Subjective scope of the extension of the risk
2.1.3 Conclusions
Self-evaluation exercise of the didactic unit 2
Teaching Unit 3
3.1 From the Post-industrial society to a new social model
3.2 About uncertainty
3.2.1 The complexity
3.2.3. The chaos
2.2.4 The contradictions
Self-evaluation exercises of the didactic unit 3
Teaching Unit 4
Introduction
2. definition of risk
3. Elements of the notion of risk
4. Contemporaneity of technological risk
Self-evaluation exercises Unit 4
Teaching Unit 5
5.1 Introduction
5.2. The science of the post-Normal era
5.2.1. Extensions of peer communities

5.3 Origins of Anticipatory Governance
5.4 Introduction to governance:
5.5 Network governance
5.5 Evaluation for Applied Learning
5.6 Towards anticipatory governance in the context of the Post-normal
5.7 Conclusions
Exercises Self-Evaluation Teaching Unit 5
Learning unit 6
6.1.Introduction
6.2. Main characteristics of systemic risks
6.3. Systematic Risk Assessment
6.3.1 Inclusion of additional evaluation criteria
Classification 6.2 Risk: Six different risk classes
Learning unit 7
7.1 The need for deliberation in risk management
7.2 Implications for policy makers
Learning unit 8
8.1 The precautionary principle

Methodology

n order to achieve the learning objectives described in this Guide we will develop a methodology that combines the individual study from the Manual, and the readings that will be presented in each topic, as well as some documentaries and master classes where the teacher outlines the main points of each topic, with the aim of generating debates about them.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Lectures	44	1.76	1, 2, 3, 4, 6
Type: Supervised			
Exercises and debates in class	12	0.48	1, 5, 4
Type: Autonomous			
Continuous evaluation excercice 1 (Individual Work)	47	1.88	1, 2, 3, 5, 6
Continuous evaluation test 2 (team Work)	47	1.88	1, 2, 3, 5, 4, 6

Assessment

The evaluation of the subject will be realized by means of:
Individual Work (20% of the overall grade)
Using the risk categories and the classification system proposed in the Manual, this work will have a minimum extension of 10 pages (appended aside) in Times New Roman 11 with a spacing of 1.15 and normal and justified margins. The work must include a minimum of 15 bibliographic citations (APA 6th edition), as well as an automated index and its delivery will be made in PDF format through the Aula Moodle. And it must include not only the context, background, categories and classification of the risk in question, but also it will have to propose a system of government of this one based on the methodologies described in the Manual.
Group work (30% of the global grade)

In groups of up to 4 people, a work, based on the analysis of a specific risk, will be chosen by the student, using the risk categories and classification system proposed in the Manual, this work It will have a minimum extension of 25 pages (appended aside) in Times New Roman 11 with a spacing of 1.15, normal and justified margins. The work must include a minimum of 25 bibliographic citations (APA 6th edition), as well as an automated index and its delivery will be made in PDF format through the Aula Moodle. And it must include not only the context, background, categories and classification of the risk in question, but also it will have to propose a system of government of this one based on the methodologies described in the Manual.
It will be valued:
Spell checking and grammar
The use of vocabulary and specific concepts of the subject
Depth of the analysis
Concretion of the proposal of governance methodology
Origin of the content (plagiarization is a zero in thenote)
Final test of the subject (50% of the overall grade)
The test will consist of questions of type test and to develop and will be based on the contents of the 8 subjects of the manual plus the compulsory readings.
REVALUATION

In case of not passing the subject according to the aforementioned criteria (continuous evaluation), a recovery test may be done on the date scheduled in the schedule, and it will cover the entire contents of the program.

To participate in the recovery the students must have been previously evaluated in a set of activities, the weight of which equals a minimum of two thirds of the total grade of the subject. However, the qualification that will consist of the student's file is a maximum of 5-Approved.

Students who need to change an evaluation date must present the justified request by filling in the document that you will find in the moodle space of Tutorial EPSI.

Plagiarism
Notwithstanding other disciplinary measures deemed appropriate, and in accordance with the current academic regulations, irregularities committed by a student that may lead to a variation of the qualification will be classified by zero (0). For example, plagiarizing, copying, ..., an evaluation activity, will imply suspending this evaluation activity with zero (0). Assessment activities qualified in this way and by this procedure will not be recoverable.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Continuous evaluation excercice 1 (Individual Work)	20%	0	0	1, 2, 3, 5, 6
Continuous evaluation test 2 (team Work)	30%	0	0	1, 2, 3, 5, 4, 6
Exam	50%	0	0	1, 3, 5, 4, 6

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