
Title of the course

- **220307 Introduction to responsible research and innovation: Conceptualization and case studies**

Organizing center/area leading the course

Deusto International Research School (DIRS) – PhD program in Human Rights: Ethical, Social and Political Challenges

Training category

Methodology and research techniques

Professor/Coordinator of the training course

[Ruth Carbajo García](#)

Priority group

PhD students, innovation managers and PDI

Competences

C01: Identify and understand the main characteristics of current research policies in the EU and existing innovation models, especially those based on transformative change. Identify the most relevant challenges of innovation processes in terms of sustainability, responsibility, inclusion, openness, democratization, and social justice, as well as the most noteworthy drivers of open and responsible innovation paradigms in terms of methodologies, impact indicators, activities, governance frameworks and participatory processes.

C02: Apply these basic concepts in the design of a preliminary proposal for research or intervention.

C03: Achieve a critical vision when analyzing content related to innovation strategies and public policies.

Pre-requisites / prior knowledge

Participants are required to have some previous skills related with searching and management scientific literature and its related databases of indexed publications Some documentation capacity will be required regarding the incumbent epistemic domain of the participants.

Contents

The program is structured in three thematic blocks, each of which is developed in three sessions of two hours each:

1. Fundamental concepts associated with research policies: Session 1

This session will proceed to **identify** and understand the main features of research policies and innovation models both for the EU and for the global North and South. Subsequently, attention will be paid to those models based on transformative change and sociotechnical transitions under the looking glass of responsibility related concepts (SDG, EU Green Deal, EU Just Transition Initiative...).

Subsequently, we will proceed to **identify and reflect** on innovation processes challenges and review strategic frameworks and policies in terms of responsibility, sustainability, gender, inclusion, anticipation, reflection, openness, democratization, and social justice. The concepts associated with indicators as well as the barriers detected in the models described above will also be assessed.

2. Responsible innovation: Background, methodologies, drivers, and evaluation of interventions through indicators: Session 2

In this session, we will proceed to **identify and understand** the background as well as the methodologies that are applied to address open and responsible innovation (Backcasting, Citizen Science, Transition Laboratories...) as well as their drivers, impact indicators, activities, governance frameworks and participatory processes through examples and outstanding projects.

Subsequently, we will proceed to introduce the most used assessment systems and the integration of the elements described above through the design of indicators.

3. Responsible innovation in action: Session 3

This session will focus on **identifying and applying** the concepts and elements reviewed in the previous sessions in the design of a preliminary proposal for a project of research or intervention. The first part of the session will proceed to analyze cases of use of emerging, data-intensive and strategic technologies. In the second part, the participants will invited to adapt the RRI framework for their disciplinary domain, proposing an case of application that will be delivered as a final reflection exercise.

Level of the course

Introductory

Methodology

Lecturers will explain the fundamental concepts related to the topic and their implications for the design of research projects, as well as examples. Contextualization will be provided through examples and literature. During the course, practical activities will be carried out so that participants can contrast the elements described and apply these concepts to their own research projects and their field of knowledge.

Language of instruction

English

Mode of instruction

In-class

Number of places

PhD students: No maximum number

Personnel: 10

Assessment

- Classroom activities
- Participation through questions
- Final reflection in which participants contrast the elements described and apply these concepts to their own research projects and field of knowledge.

Number of hours

6 hours divided in three two-hour sessions

Bilbao Campus

- Month when the course begins: April 2023
- Schedule:
 - Wednesday, 26 April 2023 (15:30-17:30)
 - Thursday, 27 April 2023 (15:30-17:30)
 - Friday, 28 April 2023 (15:30-17:30)