Title of the course

- ### 230506 Evaluation of technological solutions with users

Organizing center/area leading the course

Deusto International Research School (DIRS) – PhD program in Engineering for the Information Society and Sustainable Development

Training category

AF7. Methodology and research techniques

Professor/Coordinator of the training course

Coordinator: Pablo Garaizar Sagarminaga

Professors: Begoña García-Zapirain Soto, Amaia Méndez, Ibon Oleagordia, Ainhoa Alonso, M Luz Guenaga

Priority group

2nd year PhD students, but it can be taken by 1st and 3rd year students too

Competences

SPECIFIC COMPETENCE SC1: To identify and apply principles of design for all and evaluation of technological solutions including all stakeholders.

 SPECIFIC COMPETENCE SC2: To develop an evaluation plan of a technological solution involving users including the selection of the appropriate assessment test and questionnaires.

 SPECIFIC COMPETENCE SC3: To identify and apply the appropriate analysis to the data obtained during the assessment

 SPECIFIC COMPETENCE SC4: To identify the requirements for the internationalisation and scale up of

technological solutions applied to users.

Pre-requisites / prior knowledge

None

Contents

Unit 1. Basics of Evaluation techniques in Technological Solutions involving users (3 hours – Begoña García-Zapirain).

Unit 2. Case studies of users involved in technological solutions researches and projects

2.1.-Case study 4: Elderly and people with disabilities as users (3 hours – Begoña García-Zapirain Soto).

Description of the context of a research project for the elderly and people with disabilities, stakeholder map, inclusion and exclusion criteria of both control and experimental group, test to be used, methods of evaluation data analysis.

2.2.- Case study 2: Environmental solutions with citizens as users (3 hours - Ainhoa Alonso)

Description of the context of a research project related environmental solutions, stakeholder map, inclusion and exclusion criteria of both control and experimental group, test to be used, methods of evaluation data analysis.

2.3.- Case study 3: Children and youth as users (3 hours - M Luz)

Description of the context of a research project designed for children and youth, stakeholder map, inclusion and exclusion criteria of both control and experimental group, test to be used, methods of evaluation data analysis.

2.4.- Case study 4 : Focus group and scale up with users (3 hours - Amaia Méndez and Ibon Oleagordia). Description of "Focus Groups" as a tool for evaluation with users. Identification of the requirements for the internationalization and scale up of technological solutions applied to users.

Level of the course

Introductory

Methodology

Next, the methods and techniques used during the course are summarized and the research strategy is defined:

- *Lecture.* The lecturer presents the contents of the course in a detailed and organized manner, within the lecture room. The contents, available during the lectures, will be made available in advance to the students (as slides) and classified by units.
- *Practical cases*: exposition, analysis and sharing of practical cases
- *Individual work.* The students will carry out a set of guided practical activity associated to the course units and to the evaluation with users of their thesis.

Language of instruction

English

Mode of instruction

In-class and virtual attendance

Number of places

PhD students: 20

Personnel: 5

Assessment

Be able to apply the techniques demonstrated in the module to a given exercise proposed by each lecturer at the end of their module

Number of hours

15

Bilbao Campus

- Month when the course begins: April 2024

- Dates:

    o Monday, 8 April 2024 (15:00-18:00)

    o Tuesday, 9 April 2024 (15:00-18:00)

    o Wednesday, 10 April 2024 (15:00-18:00)

    o Thursday, 11 April 2024 (15:00-18:00)

    o Friday, 12 April 2024 (15:00-18:00)