Universidad Zaragoza

Academic Year/course: 2023/24

27456 - E-Government and Public Decisions

Syllabus Information

Academic year: 2023/24
Subject: 27456 - E-Government and Public Decisions
Faculty / School: 109 - Facultad de Economía y Empresa
Degree: 417 - Degree in Economics
ECTS: 3.0
Year: 4
Semester: Second semester
Subject type: Optional
Module:

1. General information

The main objective of this subject is that the student learns to apply the new decisional tools and Information and Communication Technologies in the e-Government of society; in particular, to know how to apply co-decision and co-creation (citizens and representatives) in the scientific resolution of the problems posed in the New Public Governance

These approaches and goals are aligned with the Sustainable Development Goals (SDGs) of the 2030 Agenda of the United Nations (https://www.un.org/sustainabledevelopment/es/), specifically, the activities planned in the subject will contribute to the achievement of goals 1, 4, 8, 9, 11, 12 and 17.

2. Learning results

To know the different approaches followed to address the scientific resolution of problems related to the governance of society

- To know what are the new challenges and needs posed by scientific decision making in the so-called Knowledge Society.
- To handle traditional decisional tools with a cognitive orientation in accordance with the holistic vision of reality.
- To be aware of the new scientific approaches (multi-criteria) used in the resolution of complex problems characterized by multiple scenarios, actors and criteria (both tangible and intangible).
- To be able to integrate in the decision-making processes the objective, rational and tangible associated to traditional science with the subjective, emotional and intangible associated to the human factor.
- In short, they must be able to provide scientific rigor to the resolution of any type of decisional problem.

3. Syllabus

Unit 0: Foreword

Objectives, Approach, Program, Evaluation

Unit 1: Fundamentals of Decision Making

Decisional problems and processes. Basic Concepts and Techniques

Unit 2: Unicriteria Models and Techniques

Mathematical programming, Linear optimization, Software and applications.

Unit 3: Statistical Analysis of Decisions

Deterministic and stochastic criteria, Additional information, Software and applications.

Unit 4: Continuous Multicriteria Decision. Multi-target

Programming by commitment and goals.

Unit 5: Discrete Multicriteria Decision. Multi-attribute

Approaches. MAUT, AHP and Overcoming.

Unit 6: Electronic Government. E-Administration

Public Administration in the Knowledge Society.

Unit 7: Electronic Government. E-Gobernaza

Models of democracy, e-cognocracy

Unit 8: Electronic Government. Social Networking

Social networks and democracy.

4. Academic activities

Master classes: 15 hours

Practical classes: 15 hours

Personal Study: 45 hours

Assessment tests. 2h

3 ECTS = 75 hours

In principle, the teaching methodology and its evaluation is planned to be based on face-to-face classes . However, if circumstances so require, they may be carried out online.

5. Assessment system

The subject will be evaluated by continuous and global evaluation in the first call and global evaluation in the second call

Continuous and global evaluation:

Part 1: presentation of three individual papers corresponding to Topics 1, 3 and 4 in which the decisional tools seen in class are applied (50% of the grade)

Part 2: presentation and defence of a group work in which the decisional tools seen in class (Topics 5 to 8) are applied to a problem as real as possible selected by the student (50% of the grade).

Global Evaluation:

It consists of a test that will include the two previous parts, taking into account that the work (part 2) must be individual.

Assessment Criteria:

In part 1 the assessment will take into account modelling, solving and interpretation, and use of the software. Part 2 will also assess the topicality and relevance of the selected problem, the exploitation and learning obtained and the defence.

To pass the subject the student must obtain at least a grade of 5 out of 10, adding the two parts.