# uc3m Universidad Carlos III de Madrid

## Outside the Box. Critical thinking and problem analysis

Academic Year: ( 2023 / 2024 ) Review date: 02-06-2023

Department assigned to the subject: Transversal matters Coordinating teacher: TINEO ALVAREZ, ANGELES

Type: Basic Core ECTS Credits: 3.0

Year: 2 Semester:

Branch of knowledge: Social Sciences and Law

#### REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

None

#### **OBJECTIVES**

At the end of the program students will be able to:

- To introduce to the knowledge of the keys and main elements linked to critical thinking.
- To introduce knowledge of the types and models of thinking, their characteristics and the most common possibilities and errors in each case.
- To analyse and promote the main characteristics of critical thinking.
- To stimulate critical thinking, the generation of divergent ideas and innovation.
- To develop a proactive perspective that contributes to detecting, facing and creatively solving different cases and problems.
- To discover, develop and promote critical thinking, innovative attitude and knowledge of causal processes in personal and professional situations.
- Contribute to the comprehensive training and personal development of students.

#### **DESCRIPTION OF CONTENTS: PROGRAMME**

- 1. Introduction. Theoretical foundations of thinking. The human brain and decision-making.
- 2. Models of thinking. Types of thoughts and associated models. -Recognition and modelling exercises.
- 3. Critical thinking and creative thinking. Phases of the analysis process. Phases of the creative process. Parallels and divergences.
- 4. Problem solving. Creative and critical problem solving. Proactivity and innovation.

# LEARNING ACTIVITIES AND METHODOLOGY

Teaching hours are distributed in accordance to the following activities:

- Exposition of different topics related to the program content.
- Analyses of practical cases.
- Role-playing.
- 4. Creation and presentation of practical exercises.

# ASSESSMENT SYSTEM

Final exam in the official exam session: 0 points.

Continuous assessment: 10 points of the overall grade.

- Attendance at 85% of the classes is compulsory in order to pass the course (i.e. 12 of the 14 classes).
- Active participation in the classes.
- Completion of exercises and practical activities in class and through Aula Global.
- Two written assessment tests: one in the 7th class, a short development test that will deal with the contents worked on in the previous classes; another in the 14th class: a development test on the whole of the syllabus taught in which students must summarise the contents dealt with and draw conclusions on the practical applications of the same at a professional level. They must also write a conclusion and personal self-assessment on the level of development they consider they have reached in the skill to which the subject refers.
- There may be other assessment tests that will be indicated in the weekly planning.

Percentage weight of the Final Exam: 0

Percentage weight of the rest of the evaluation: 10

Please note that, in accordance with current regulations, each enrolment in cross-disciplinary subjects, as in this case, will involve a single call and, in those cases in which the continuous assessment process

includes a test, this must be taken during the timetable and in the classroom reserved for classes, as these cross-disciplinary subjects do not have a date reserved in the official exam calendars.

% end-of-term-examination: 0
% of continuous assessment (assignments, laboratory, practicals...): 100

## **BASIC BIBLIOGRAPHY**

- Daley J.E. El arte de pensar fuera de la caja, Independently published., 2022
- De Bono, E. Seis sombreros para pensar, Editorial Planeta, 2019
- Llantada, A. Piensa fuera de la caja: 33 ideas para ejercitar 3 cerebros, Editorial independiente, 2020
- Mondrego Ruiz, L. Érase una vez... La Creatividad. 12 apasionantes relatos que te harán conocer, entender y memorizar las mejores técnicas creativas., editorial independiente, 2021