# uc3m Universidad Carlos III de Madrid

## Creativity and innovation

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**

- Identify characteristics of creative personality and assess the individual level of creativity.
- Get familiar with the main creative skills.
- Lear and apply different creativity tools.
- Improve the ability to use the creative thinking approach to problem solving.

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

- 1. Introduction: What is and what is not creativity?
- 2. The creative personality.
- Lateral thinking.
- 4. Creative skills.
- Key principles of creativity.
- Assessment of the level of creativity.
- 7. Methods and tools for the application of creative thinking.
- 8. Production of ideas.
- 9. Unlocking Creativity.
- 10. Creativity applied to quality, novelty and value. Creativity for innovation.
- 11. Techniques for generating ideas. Techniques for evaluating ideas.
- 12. The problem-solving process: models, phases, tools and application.
- 13. Monitoring and control of decisions.
- 14. Group decision-making. Consensus.

## LEARNING ACTIVITIES AND METHODOLOGY

The class schedule is distributed according to the following methodology and training activities:

- Theoretical-practical teaching; Active, dynamic and participatory learning.
- Written and oral exercises; student presentations.
- Other training activities: master classes, group work, guided discussions, practical cases, etc.

#### 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...):

### **BASIC BIBLIOGRAPHY**

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- CARBALLO, R. Innovando en la empresa, Gestión 2000, 1999
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- DEMORY, B. Técnicas de creatividad, Granica, 1997
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- MICHALKO, Michael Thinkertoys: cómo desarrollar la creatividad en la empresa, Gestión 2000, 2001
- MONREAL, C. Qué es la creatividad, Biblioteca Nueva, 2001
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- RIES, Eric El método Lean Startup. Cómo crear empresas de éxito utilizando la innovación continua, Deusto, 2012
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- VARELA, R. Innovación empresarial: arte y ciencia en la creación de empresas, Pearson Educación de Colombia, 2001
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