

Creativity applied to problem solving

Academic Year: (2023 / 2024)

Review date: 27-05-2021

Department assigned to the subject: Transversal matters

Coordinating teacher:

Type: Basic Core ECTS Credits : 3.0

Year : 2 Semester :

Branch of knowledge: Social Sciences and Law

OBJECTIVES

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

- Identify characteristics of creative personality and assess the individual level of creativity.
- Get familiar with the main creative skills.
- Learn 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.
3. Lateral thinking.
4. Creative skills.
5. Key principles of creativity.
6. Evaluation of the level of creativity.
7. Methods and tools for the application of creative thinking.
8. The process of problem solving: models, phases, tools and application.
9. Monitoring and control of decisions.
10. Group decision making. The consensus.

LEARNING ACTIVITIES AND METHODOLOGY

Teaching hours are distributed in accordance to the following activities:

- ¿ Exposition of different topics related to the program content.
- ¿ Exercises and team dynamics related to the content specially those reflecting operative problems together with interaction problems (such the helium stick exercise).
- ¿ In-group comments and evaluation of exercises, including presenter's suggestions and practical advices.
- ¿ Video clips for reflection and analysis of models.
- ¿ Visual metaphor for solving problems in groups.

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.
- 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

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

BASIC BIBLIOGRAPHY

- Edward de Bono, Seis sombreros para pensar, 2ª ed. En español, , Paidós ibérica,, 2008,
- Marianna Ćmiel Ć Bojer, Heiko Roehl, Marianne Knuth y Colleen Magner, Mapping dialogue, , Taos Institute,, 2012,
- Mihaly Csikszentmihalyi, Creatividad: El flujo y la psicología del descubrimiento y la invención, , Paidós ibérica,, 1998,
- Tom Kelley y Jonathan Littman, Las diez caras de la innovación, , Paidós ibérica,, 2010,
- VV.AA., Creatividad en la solución de problemas, , Ed. M.A.D., 2005,