

## Creativity applied to problem solving

Academic Year: ( 2018 / 2019 )

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Department assigned to the subject: Transversal matters

Coordinating teacher: TINEO ALVAREZ, ANGELES

Type: Compulsory ECTS Credits : 3.0

Year : 4 Semester :

## 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. What is creativity?
2. Creative personality and creative skills
3. How creative are you? How to assess your creativity resources.
4. Supporting tools for creativity improvement.
5. Creativity tools applied in work environment.
6. Problem definition:
  - Causes, present situation, consequences.
  - Linear thing and systemic thinking
7. Decision making tools.
8. Search and analysis of relevant information.
9. Taking decisions in group:
  - Dialogue mapping
  - Visual metaphors
  - Team dialogue tools
  - Six thinking hats, ( De Bono)
  - How to get to consensus
10. Follow-up and control of decisions.

## 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

<b>% end-of-term-examination/test:</b>	0
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	100

Continuous evaluation: 10 points according to student's participation in classroom activities and exercises and activities.

Without final exam.

## BASIC BIBLIOGRAPHY

- Edward de Bono, Seis sombreros para pensar, 2ª ed. En español, , Paidós ibérica,, 2008,
- Marianna ĆMIjerĆ Bojer, Heiko Roehl, Marianne Knuth y Colleen Magner, Mapping dialogue, , Taos Institute,, 2012,
- Mihaly Csikszentmihayi, 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,