295506 - TMSQ - Environmental Technologies and Sustainability

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 713 - EO - Department of Chemical Engineering
Academic year: 2018
Degree: BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
ECTS credits: 6
Teaching languages: Catalan

Teaching staff
Coordinator: Casas Pons, Ignasi
Others: Cesar Valderrama, Jose Luis Cortina, Vicenç Martí, Eulàlia Planas, Elsa Pastor, Núria Saperas

Opening hours
Timetable: Es dirà a classe i a ATENEA

Prior skills

Requirements

Degree competences to which the subject contributes

Specific: CEI-16. Understand the basic applications of environmental technologies and sustainability principles.

Transversal: 02 SCS N1. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 1. Analyzing the world’s situation critically and systemically, while taking an interdisciplinary approach to sustainability and adhering to the principles of sustainable human development. Recognizing the social and environmental implications of a particular professional activity.

Teaching methodology
The course is based on a exhibition methodology (lecture) using as support PowerPoint slides to teach the theoretical part (20%), a methodology of exhibition / participation to solve the practical problems related to the theory (16%), active and collaborative learning to perform different practices throughout the year (4%) and independent learning (60%).
The practices, which are of compulsory attendance, will be in groups of two people during class time devoted to this activity. Depending on the type of practice and prior to its completion, students must submit an individual report on the practice, following the indications of its script. The report is required for the practice to be evaluated. After the class, students will deliver, a report with the resolution of the problem solved during the practice. The average of the ratings of these reports constitutes the practices grade (NP). The unjustified assistance to a practice means a zero of it.

Learning objectives of the subject
The final course grade will be calculated according to the following formula, taking into account that the final exam includes the whole course content:

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\text{FINAL NOTE} : NF = 0.1 \times \text{NP} + 0.3 \times \text{NEP} + 0.6 \times \text{NEF}
\]

where:
- \( \text{NP} \) : practice note
- \( \text{NEP} \) : note of the partial tests
- \( \text{NEF} \) : Final exam

If reevaluation exam is undertaken, the grade obtained will replace the 60% of the final exam grade (NEF).

### Bibliography

**Basic:**


Josep Arnaldos et al.. Transparències de Teoria. Reprografia EEBE,

Josep Arnaldos et al.. Llibre de problemes i pràctiques. Reprografia EEBE,

### Others resources: