**820089 - PDM - Mobile Devices Programming**

**Coordinating unit:** 295 - EEBE - Barcelona East School of Engineering  
**Teaching unit:** 723 - CS - Department of Computer Science  
**Academic year:** 2017  
**Degree:**  
- BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Teaching unit Optional)  
- BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
- BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
- BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
- BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
- BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
- BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
- BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
- BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
- BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
**ECTS credits:** 6  
**Teaching languages:** Catalan, Spanish

### Teaching staff

**Coordinator:** Samir Kanaan  
**Escudero Bakx, Gerard**  
**Others:** Samir Kanaan i Gerard Escudero

### Prior skills

This course does not require any previous skills.

### Degree competences to which the subject contributes

**Specific:**

1. Understand the basics behind the use and programming of PCs, operating systems, databases and software with applications in engineering.  
3. Apply their knowledge to industrial informatics and communications.

**Transversal:**


### Teaching methodology

The course uses a group methodology based on projects: a guided work (laboratory) in a 50% and an open work (project) in the remaining 50%.

### Learning objectives of the subject

- Let the student know about the concepts and basic usages of mobile device programming (phones and tablets) with Android.  
- Provide programming techniques for mobile devices.
The assignment will be formed by the evaluation on the professors of the different practical works (50%) and a final project (another 50%).

**Qualification system**

The assignment will be formed by the evaluation on the professors of the different practical works (50%) and a final project (another 50%).

**Regulations for carrying out activities**

Laboratory works follow a guide. The final project can be chosen by the student with the assessment and approval of the professors.
Bibliography

Basic:
