2010-11 academic year

Telematic Applications (21725)

Degree/study: Bachelor's degree in Telematic Engineering
Year: 2nd
Term: 3rd
Number of ECTS credits: 4 credits
Hours of studi dedication: 100 hours
Teaching language or languages: The teaching will be basically in Spanish, although Catalan and English will be mixed in explanations, provided material and recommended readings.
Teaching Staff: Davinia Hernández-Leo and Jonathan Chacón

1. Presentation of the subject

In this subject, it is intended that student know the **technologies to program communications applications**. Students will apply these technologies in practice and, at the end of the subject they will be able to program simple distributed applications about TCP / IP networks.

This subject is structured over competences achieved in the following subjects: Programming Fundamentals, Networks and Services, Databases, Object- Oriented Programming, Network and Services and Operating Systems.

Several subjects allow students to deepen some of the competences covered in this subject, such as Distributed Protocols (optional subject of the 3rd year) and Development of Telematic Applications (optional subject of the 4th year).

2. Competences to be obtained in the subject

General skills	Specific competences
Instrumental INS1. Analysis and synthesis capacity INS3. Capacity to apply knowledge to analyze situations and solve problems INS6. Capacity to communicate orally and properly written in Catalan and Spanish, both in expert and inexperienced audiences ***Systemic*** SIS1. Capacity to apply with creativity and flexibility the acquired knowledge and adapt them to new contexts and situations. SIS2. Capacity to progress in training processes and learning independently and continuously.	**Specific competences of Basic Training** B14. Understand the theoretical basis of programming and use methods and programming languages for the development of software systems in a practical way. B16. Know the basic concepts of the architecture of computers and servers, as well as the principles of operating systems. **Specific Common Competences in the branch of Telecommunications** T7. Capacity to know and use architecture and design methodology, verification and software validation. T8. Capacity to perform programming in real time, concurrent, distributed and event-based as well as human-computer interface design. T13. Capacity to know, understand and use the concepts of network architecture, protocols and communication interfaces.