Course guide
330239 - ASSI - Internet Applications and Services

Unit in charge: Manresa School of Engineering
Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering.
Degree: BACHELOR’S DEGREE IN ICT SYSTEMS ENGINEERING (Syllabus 2010). (Compulsory subject).
Academic year: 2022 ECTS Credits: 6.0 Languages: Catalan, Spanish, English

LECTURER

Coordinating lecturer: Aguila Lopez, Francisco Del
Others: Catllà Garcia, Àlex

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
1. The ability to describe, program, use, evaluate and optimize communication protocols and interfaces for the different levels of a network architecture
2. Knowledge of the main network services and their application, as well as the ability to design and implement new services.
3. Knowledge of and the ability to use existing tools and instrumentation for the analysis, design, development and verification of electronic, computer and communications systems
4. Knowledge and ability to use existing tools and instrumentation for the analysis, design, development and verification of electronic, computer and communications systems
5. The ability to perform the typical activities of the degree, taking into account the corresponding standards, rules and regulations.

Transversal:
6. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.
7. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.
8. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.
9. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self study</td>
<td>90,0</td>
<td>60.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>30,0</td>
<td>20.00</td>
</tr>
<tr>
<td>Hours small group</td>
<td>30,0</td>
<td>20.00</td>
</tr>
</tbody>
</table>

Total learning time: 150 h
## CONTENTS

### (ENG) Títol del contingut 1: LA CAPA D’APLICACIÓ

**Full-or-part-time:** 102h  
Theory classes: 18h  
Laboratory classes: 24h  
Self study: 60h

### (ENG) Títol del contingut 2: SEGURETAT EN ELS SERVEIS D’INTERNET

**Full-or-part-time:** 42h  
Theory classes: 10h  
Laboratory classes: 6h  
Self study: 26h

### (ENG) Títol del contingut 3: GESTIÓ DE XARXA

**Full-or-part-time:** 6h  
Theory classes: 2h  
Self study: 4h

## ACTIVITIES

### (ENG) TÍTOL DE L’ACTIVITAT 1: CLASSE EXPOSITIVA

**Full-or-part-time:** 26h  
Theory classes: 26h

### (ENG) TÍTOL DE L’ACTIVITAT 2: ESTUDI DE CONTINGUTS

**Full-or-part-time:** 20h  
Self study: 20h

### (ENG) TÍTOL DE L’ACTIVITAT 3: CLASSE DE LABORATORI

**Full-or-part-time:** 80h  
Laboratory classes: 30h  
Self study: 50h

### (ENG) TÍTOL DE L’ACTIVITAT 5: PROVES

**Full-or-part-time:** 24h  
Theory classes: 4h  
Self study: 20h
GRADING SYSTEM

BIBLIOGRAPHY

Basic:

Complementary: