340383 - SODX-I5001 - Distributed and Network Operating Systems

Coordinating unit: 340 - EPSEVG - Vilanova i la Geltrú School of Engineering
Teaching unit: 701 - AC - Department of Computer Architecture
Academic year: 2019
Degree: BACHELOR'S DEGREE IN INFORMATICS ENGINEERING (Syllabus 2018). (Teaching unit Compulsory)
BACHELOR'S DEGREE IN INFORMATICS ENGINEERING (Syllabus 2010). (Teaching unit Compulsory)
ECTS credits: 6
Teaching languages: Catalan, Spanish, English

Teaching staff
Coordinator: García Almiñana, Jordi

Degree competences to which the subject contributes

Specific:
3. CETI2. Ability to select, design, develop, integrate, value, construct, tmanage, exploit and maintain technologies of machines, programming and nets, keeping suitable costs and quality parameters.
5. CETI5. Ability to select, to develop, integrate and manage information systems which satisfy organization necessities with indentified costs and quality criteria.

Transversal:
1. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.
2. EFFECTIVE USE OF INFORMATION RESOURCES - Level 1. Identifying information needs. Using collections, premises and services that are available for designing and executing simple searches that are suited to the topic.

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group:</th>
<th>45h</th>
<th>30.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Hours small group:</td>
<td>15h</td>
<td>10.00%</td>
</tr>
<tr>
<td></td>
<td>Guided activities:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Self study:</td>
<td>90h</td>
<td>60.00%</td>
</tr>
</tbody>
</table>
## Content

| (ENG) -1. Conceptes de Sistemes Distribuïts | Learning time: 16h  
Theory classes: 2h  
Practical classes: 4h  
Self study : 10h |
|---|---|
| (ENG) -2. Comunicació entre processos | Learning time: 18h  
Theory classes: 2h  
Practical classes: 4h  
Laboratory classes: 2h  
Self study : 10h |
| (ENG) -3. Sincronització | Learning time: 14h  
Theory classes: 1h  
Practical classes: 2h  
Laboratory classes: 2h  
Guided activities: 2h  
Self study : 8h |
| (ENG) -4. Consistència i replicació | Learning time: 20h  
Theory classes: 2h  
Practical classes: 4h  
Laboratory classes: 2h  
Guided activities: 2h  
Self study : 10h |
| (ENG) -5. Sistemes tolerants a errors | Learning time: 18h  
Theory classes: 2h  
Practical classes: 4h  
Laboratory classes: 2h  
Guided activities: 2h  
Self study : 8h |
340383 - SODX-I5001 - Distributed and Network Operating Systems

(ENG) -6. Sistemes i serveis de noms

Learning time: 14h
- Theory classes: 1h
- Practical classes: 2h
- Laboratory classes: 1h
- Self study: 10h

(ENG) -7. Sistemes de Fitxers Distribuïts

Learning time: 14h
- Theory classes: 1h
- Practical classes: 2h
- Laboratory classes: 1h
- Self study: 10h

(ENG) -8. Sistemes Web Distribuïts

Learning time: 12h
- Theory classes: 1h
- Practical classes: 2h
- Laboratory classes: 1h
- Self study: 8h

(ENG) -9. Sistemes Distribuïts de Gran Escala

Learning time: 18h
- Theory classes: 2h
- Practical classes: 4h
- Laboratory classes: 2h
- Self study: 10h

Qualification system

20% LAB + max( 10% PRO + 30% EXP + 40% EXF, 80% EXF )

LAB: Laboratory
PRO: Problems and class participation
EXP: Mid term exam
EXF: Last term exam

Regulations for carrying out activities

.
340383 - SODX-I5001 - Distributed and Network Operating Systems

Bibliography

Basic:


Complementary:
