Course guides
230087 - PIE - Probability and Statistics

Unit in charge: Barcelona School of Telecommunications Engineering
Teaching unit: 749 - MAT - Department of Mathematics.

Degree: BACHELOR’S DEGREE IN TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES ENGINEERING (Syllabus 2015). (Compulsory subject).

Academic year: 2021 ECTS Credits: 6.0 Languages: Catalan

LECTURER
Coordinating lecturer: Fabrega Canudas, Josep
Others: Fàbrega Canudas, Josep
Gràcia Sabaté, Francesc Xavier
Jimenez Urroz, Jorge
Lladó Sànchez, Anna

PRIOR SKILLS
Calculus of one and several variables. Linear algebra.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES
Transversal:
07 AAT N2. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.

TEACHING METHODOLOGY
- Lectures.
- Application classes.
- Exercises.

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>65,0</td>
<td>43.33</td>
</tr>
<tr>
<td>Self study</td>
<td>85,0</td>
<td>56.67</td>
</tr>
</tbody>
</table>

Total learning time: 150 h
### CONTENTS

#### 1. Basic probability theory

**Description:**

- **Full-or-part-time:** 15h
- **Theory classes:** 15h

#### 2. Random variable

**Description:**

- **Full-or-part-time:** 15h
- **Theory classes:** 15h

#### 3. Several random variables

**Description:**

- **Full-or-part-time:** 17h
- **Theory classes:** 17h

#### 4. Statistics

**Description:**

- **Full-or-part-time:** 18h
- **Theory classes:** 18h

### GRADING SYSTEM

Midterm exams: 40%
Final exam: 60%
BIBLIOGRAPHY

Basic:

Complementary: