Course guide
230334 - ELEAUTO - Automotive Electronic Systems

Unit in charge: Barcelona School of Telecommunications Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering.

Degree: BACHELOR’S DEGREE IN TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES ENGINEERING (Syllabus 2015). (Optional subject).
BACHELOR’S DEGREE IN ELECTRONIC ENGINEERING AND TELECOMMUNICATION (Syllabus 2018). (Optional subject).

Academic year: 2023  ECTS Credits: 2.0  Languages: Catalan

LECTURER
Coordinating lecturer: Consultar aquí / See here: https://telecos.upc.edu/ca/estudis/curs-actual/professorat-responsables-coordinadors/responsables-assignatura

Others: Consultar aquí / See here: https://telecos.upc.edu/ca/estudis/curs-actual/professorat-responsables-coordinadors/professorat-assignat-idioma

TEACHING METHODOLOGY
Group work
Oral presentation

LEARNING OBJECTIVES OF THE SUBJECT
Analyze the electronic systems that incorporate current cars, study their particular technical requirements and learn about the new applications that are currently being developed for future cars.

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self study</td>
<td>30,0</td>
<td>60.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>20,0</td>
<td>40.00</td>
</tr>
</tbody>
</table>

Total learning time: 50 h
CONTENTS

Theory lessons

Description:
Introduction to automotive electronics
Automotive communication systems
Autonomous vehicles
Automotive electronics requirements

Full-or-part-time: 13h
Theory classes: 13h

Works and presentations

Description:
Theoretical work on an electronic system of a current vehicle
Theoretical work on a future autonomous vehicle system

Full-or-part-time: 37h
Practical classes: 5h
Guided activities: 2h
Self study: 30h

GRADING SYSTEM

Work reports 70%
Oral presentations 30%

BIBLIOGRAPHY

Basic: