



Year : 2018/19

30337 - Telecommunications Services and Systems

Syllabus Information

Academic Year:	2018/19
Subject:	30337 - Telecommunications Services and Systems
Faculty / School:	110 -
Degree:	438 - Bachelor's Degree in Telecommunications Technology and Services Engineering
ECTS:	6.0
Year:	
Semester:	Second semester
Subject Type:	
Module:	---

General information

Aims of the course

Context and importance of this course in the degree

Recommendations to take this course

Learning goals

Competences

Learning goals

Importance of learning goals

Assessment (1st and 2nd call)

Assessment tasks (description of tasks, marking system and assessment criteria)

Methodology, learning tasks, syllabus and resources

Methodological overview

1. Lectures (42 hours).
2. Problems (10 hours)

3. Laboratory (8 hours): 4 sessions of 2 hours each.
4. Group assignments.
5. Academic tutoring.

Learning tasks

Lectures: 42 hours presenting the contents of the course

Problems: 10 hours resolving problems and practice cases

Laboratory assignments: 4 sessions of 2 hours each

Group assignments: each group of students, under the supervision of a teacher, will be assigned a case study related to telecommunication systems

Syllabus

1. International Telecommunication Organizations and Normative.

2. Telecommunication Infrastructures.

3. Positioning Systems

4. Fixed Systems and Services

5. Mobile Systems and Services

6. Broadcasting Systems and Services

Course planning and calendar

The schedule for lecture and laboratory sessions and the evaluation dates will be provided by the university before the beginning of the semester.

Bibliography and recommended resources

- 1. Horak, R. Telecommunications and data communications handbook / R. Horak. Wiley, 2007.
- 2. Keiser, Gerd. Optical Fiber communications / Gerd Keiser . - 2nd edition New York [etc.] : McGraw-Hill, cop. 1991
- 3. Gowar, John. Optical communication systems / John Gowar . - 2nd. ed. New York [etc.] : Prentice Hall, cop. 1993

- 4. Antenas / Angel Cardama Aznar ... [et al.] . - 2ª ed., reimp. Barcelona : UPC, 2005
- 5. Hernando Rábanos, José María. Transmisión por radio / José María Hernando Rábanos . - 3a. ed. Madrid : Centro de Estudios Ramón Areces, 1998
- 6. Forsell, Borje. Radionavigation systems / Forsell, B. Prentice Hall 1991
- 7. Logsdon, Tom. The Navstar Global positioning system / Tom Logsdon New York, etc. : Van Nostrand reinhold, 1992
- www.mityc.es/telecomunicaciones/Infraestructuras/
- BOE