

30337 - Telecommunications Services and Systems

Información del Plan Docente

Academic Year 2017/18

Faculty / School 110 - Escuela de Ingeniería y Arquitectura

Degree 438 - Bachelor's Degree in Telecomunications Technology and Services

Engineering

ECTS 6.0

Year

Semester Second semester

Subject Type

Module ---

- 1.General information
- 1.1.Introduction
- 1.2. Recommendations to take this course
- 1.3. Context and importance of this course in the degree
- 1.4. Activities and key dates
- 2.Learning goals
- 2.1.Learning goals
- 2.2.Importance of learning goals
- 3. Aims of the course and competences
- 3.1.Aims of the course
- 3.2.Competences
- 4.Assessment (1st and 2nd call)
- 4.1. Assessment tasks (description of tasks, marking system and assessment criteria)
- 5.Methodology, learning tasks, syllabus and resources
- **5.1.Methodological overview**
 - Lectures (42 hours).
 - 2. Problems (10 hours)



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3. Laboratory (8 hours): 4 sessions of 2 hours each.
4.
Group assignments.
5. Academic tutoring.
5.2.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 asigned a case study related telecommunication systems
5.3.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
5.4.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.



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5.5.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. Forssell, 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 /
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