



Course Code ECE-553	Course Title Communications Management	ECTS Credits 8
Department Engineering	Semester Fall or Spring	Prerequisites ECE-350
Type of Course Elective	Field Engineering	Language of Instruction English
Level of Course 2 nd Cycle	Year of Study 1 st	Lecturer Dr John Sahalos
Mode of Delivery Face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

The main objectives of the course are to:

- Provide in depth the components of Telecommunications Market
- Provide in depth the principles of Regulatory Authorities & Standards
- Analyze of the Network Managements Systems
- Provide in depth the spectrum management
- Provide in depth the economics
- Give details for special topics

Learning Outcomes:

After completion of the course students are expected to:

- Demonstrate knowledge and understanding of the Telecommunications Market
- Explain the type of Standards and the Authorities
- Analyze problems of the spectrum management
- Analyze the economics of Telecom Companies
- Apply principles of Network Management
- Analyze topics of current interest

Course Contents:

- The telecommunications market
- Spectrum management
- Network Management Systems(TMN, OSI,SNMP,CORBA,Web Services)
- Data Mining
- Economics (Financial Statements, Investments)
- Innovation Models
- Topics on Business Administration (High Tech Companies)
- Topics on Business Administration (Project Management)
- Topics on Business Administration (Risk Management)
- Broadband Networks
- Projects on communications management. Computer simulations using software packages and comparison of the results with the international literature

Learning Activities and Teaching Methods:

Lectures, in-class examples and exercises

Assessment Methods:

Homework, midterm exam, final exam.

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Salah Aidarous and Thomas Plevyak	Telecommunications Network Management : Technologies and Implementations	(IEEE Press Series on Network Management), Wiley-IEEE Press	1997	0780310136

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
C. Courcoubetis and R. Weber	Pricing Communications Networks	John Wiley	2003	0-470-85130-9