



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:

<p>The main objectives of the course are to:</p> <ul style="list-style-type: none">• 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
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Learning Outcomes:

<p>After completion of the course students are expected to:</p> <ul style="list-style-type: none">• 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:

<ul style="list-style-type: none">• 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
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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