

## SUBJECT TEACHING GUIDE

### 897 - Introduction and General Concepts of Communications Networks

#### Master's Degree in Business and Information Technologies

Academic year 2023-2024

1. IDENTIFYING DATA					
Degree	Master's Degree in Business and Information Technologies			Type and Year	Compulsory. Year 1
Faculty	Faculty of Economics and Business Studies				
Discipline	Obligatory Subjects				
Course unit title and code	897 - Introduction and General Concepts of Communications Networks				
Number of ECTS credits allocated	2,5	Term	Semester based (1)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. INGENIERIA DE COMUNICACIONES				
Name of lecturer	JOSE ANGEL IRASTORZA TEJA				
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Office	Edificio Ing. de Telecomunicación Prof. José Luis García García. Planta: - 2. DESPACHO (S206)				
Other lecturers					

### 3.1 LEARNING OUTCOMES

- Students will be able to acquire the knowledge and competences necessary to understand the mechanisms that enable the transmission of data between communications devices. For this, the OSI reference model, techniques for flow control and error control as well as the most common protocols used in data networks will be studied.

#### 4. OBJECTIVES

1. To know the OSI model for data transmission.
2. To understand the techniques of flow control between devices.
3. To understand the basic techniques of error handling and recovery.
4. To understand the need for the use of communications protocols.
5. To know the basics of networking services and applications.

#### 6. SUBJECT PROGRAM

CONTENTS	
1	Part 1: General concepts of networks.
2	Part 2: Local Area Networks (LAN).
3	Part 3: Protocol and network services.
4	Tutorial sessions
5	Exam

#### 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Final exam.	Written exam	Yes	Yes	80,00
Laboratory evaluation	Laboratory evaluation	No	No	20,00
TOTAL				100,00
Observations				
The evaluation of the subject will be carried out by means of a written multiple-choice exam.				
Observations for part-time students				
Part-time students will also take a written multiple-choice test.				

#### 8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

León-García, A.; Widjaja, I.: Redes de Comunicación. Conceptos Fundamentales y Arquitecturas Básicas, McGraw Hill, 2002.  
 Halsall, Data Communications, Computer Networks and Opens Systems, (4ª edición), Addison Wesley, 1996.  
 A.S. Tannenbaum, Computer Networks, (3ª edición), Prentice-Hall, 1996.