SYLLABUS: NETWORKING	CREDITS: 12 ECTS

COMPETENCES

AFTER COMPLETING THIS COURSE, STUDENTS WILL BE ABLE TO:

C1: Manage network services
C2: Optimize system performance
C3: Evaluating hardware devices performance
C4: Determine computers network infrastructure
C5: Integrate communications equipment in telematics infrastructures

COMPETENCES DISTRIBUTION

	COMPETENCE		ESSENTIAL 60% TIME 60% MARK	IDEAL 40% TIME 40% MARK
C1	Manage a LAN in advanced way		x	
	Interconnect LANs using Ethernet technology			x
C2	Optimize system performance		x	
C 3	Optimize network configurations		x	
	Assess network configurations			x
C4	Plan LANs using structured cabling		x	
	Design computers networks			x
C5	Integrate devices in a LAN		x	
	Design scalable Network s			x

CONTENTS

LAN; WAN
OSI; TCP/IP
IPv4; IPv6
CLIENT SERVER ARCHITECTURE; P2P ARCHITECTURE
DHCP; DNS; Gnutella; HTTP; FTP; SMTP
ETHERNET; STRUCTURED CABLING
SWITCHING; ROUTING
TRUNK LINKS
ACLs
VLMS; CIDR
NAT; PAT
RIP; OSPF;EIGRP
VLAN; VPN
WIFI