



COURSES IN ENGLISH FOR EXCHANGE STUDENTS
Network and Telecommunications
NT

Networks and Telecommunications :

NAME	ID
Basics in Networks services	NT1-01
Principles and architecture of networks	NT1-02
Networks and Telecommunications English	NT1-03
Access network technologies	NT3-01
Optical Fibers	NT3-02
Internship/Professional Project in Networks and Telecommunications	NT5-01
Database	NT2-01
Networks and Telecommunications English	NT2-02
Triple Play	NT4-01
Internship/Professional Project in Networks and Telecommunications	NT6-01

NETWORKS

Basics in Networks services

NT1-01

Objectives:

This module introduces the basics of network services (DHCP, NFS, SMB, HTTP), and leads to the implementation and the exploitation of those services.

Skills:

The students will install and configure a DHCP service, a file sharing system, a file transfer server, and a web server.

Prerequisite:

Basics in Operating systems

Hours:

<u>Lecture:</u>	2
<u>Tutorial Classes:</u>	4
<u>Practical Work:</u>	16

ECTS: 4

NETWORKS

Principles and architecture of networks

NT1-02

Objectives:

Understand the architecture of a network and its protocols
Analyse how a protocol works

Skills:

This module shows how to set up a basic network. The students will also capture and analyse basic protocols

Prerequisite:

Architecture of IT equipment

Hours:

<u>Lecture:</u>	8
<u>Tutorial Classes:</u>	8
<u>Practical Work:</u>	9

ECTS: 5



Spring



Autumn

ENGLISH
Networks and Telecommunications English

NT1-03

FOR NON-NATIVE SPEAKERS

ECTS: 5

TELECOMMUNICATIONS
Access network technologies

NT3-01

Objectives:
 This module helps to understand the principal architectures of the local loop (electrical, optical, and wireless).

Skills:
 The students will analyse, deploy, and maintain local loop technologies. They will learn how to set up access network equipments.

Prerequisite:
 Principles and architecture of networks
 Digital transmission chain
 Networks Operators Technologies

Hours:

<u>Lecture:</u>	6
<u>Tutorial Classes:</u>	6
<u>Practical Work:</u>	12

ECTS: 5

 Spring

 Autumn

TELECOMMUNICATIONS

Optical Fibers

Objectives:

This module shows the characteristics of optical fibers and the components of optical fiber networks

Skills:

Students will characterize optical links, fibers, and components. They will also identify optical fiber and component types

Prerequisite:

Guided transmission in hyper-frequencies and optics

Hours:

<u>Lecture:</u>	10
<u>Tutorial Classes:</u>	8
<u>Practical Work:</u>	6

ECTS: 5

NT3-02

NETWORKS AND TELECOMMUNICATIONS

Internship/Professional Project in Networks and Telecommunications

NT5-01

ECTS: 6



Spring



Autumn

COMPUTER SCIENCE / NETWORKS
Database

NT2-01

Objectives:

This module shows how to use a database, how to write scripts in a query language, and the basics of administrating a DBMS.

Skills:

Students will learn how to create a database in a DBMS, and how to manipulate and interrogate a database. They will install and use a Database Management System (DBMS).

Prerequisite:

Basics in Operating systems

Hours:

<u>Lecture:</u>	4
<u>Tutorial Classes:</u>	6
<u>Practical Work:</u>	16

ECTS: 5

ENGLISH
Networks and Telecommunications English

NT2-02

FOR NON-NATIVE SPEAKERS

ECTS: 5



Spring



Autumn

NETWORKS
Triple Play

NT4-01

Objectives:

This module gives insights about Triple Play architectures (Data-Voice-Video services)

Skills:

Students will learn how to set up a Quality of Service (QoS) system for voice and video services.

Prerequisite:

Principles and architecture of networks
Local networks and active equipments
Internet technologies

Hours:

<u>Lecture:</u>	4
<u>Tutorial Classes:</u>	2
<u>Practical Work:</u>	4

ECTS: 2

NETWORKS AND TELECOMMUNICATIONS

NT6-01

Internship/Professional Project in Networks and Telecommunications

ECTS: 6



Spring



Autumn