



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Introduction to ICT networks

### Course

Field of study

Electronics and Telecommunications

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

general academic

Course offered in

English

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

15

Other (e.g. online)

Tutorials

Projects/seminars

### Number of credit points

4

### Lecturers

Responsible for the course/lecturer:

dr hab. inż. Rafał Krenz

rafal.krenz@put.poznan.pl

61 6653912

Responsible for the course/lecturer:

### Prerequisites

Basic knowledge of PC and the internet.

### Course objective

The course aims at providing basic information devoted to the beginning, development and functioning of the Internet, introduces the most important Internet services and teaches how to use them efficiently. The basic terms related to the information networks are introduced and explained.

### Course-related learning outcomes

Knowledge

Knows and understands the basic technical meaning of the terms describing telecommunication and computer networks.

Knows important internet services and is aware of internet threats.



### Skills

Is able to design www pages, using appropriate programming languages.

Can use computers running UNIX-like operating systems.

### Social competences

Is aware of the impact electronics and ICT systems and networks will have on the development of the information society.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: finale test consisting of 20-30 single-choice questions, 50% of the total number of points necessary to pass

Laboratory classes: continuous evaluation of tasks assigned by the teacher, evaluation of final project; final grade calculated as an average of all partial grades in the range 2-5 (D-A)

### Programme content

Lectures:

- 1.Introduction to the Internet.
- 2.World Wide Web. Searching the Internet.
- 3.Unix OS and computer networks.
- 4.Other Internet services and their applications.
- 5.Local area networks - introduction.

Laboratory exercises:

- 1.HTML basics.
- 2.CSS and forms.
- 3.XML - introduction.
- 4.Basic unix/linux commands.

### Teaching methods

Lecture: multimedia presentation

Laboratory classes: exercises using PC, student projects assigned by the teacher

### Bibliography

Basic

Books devoted to HTML/CSS/XML programming languages.

Books devoted to unix/linux OS.

Books devoted to the Internet and its services.

Additional

Magazines devoted to computers and internet.



### Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	40	2,0
Student's own work (literature studies, preparation for laboratory classes, preparation for tests, project preparation) <sup>1</sup>	60	2,0

<sup>1</sup> delete or add other activities as appropriate