Computer laboratory I - information technologies - course description

General information

Course name	Computer laboratory I - information technologies
Course ID	13.2-WF-FizP-CL-IT-S17
Faculty	Faculty of Physics and Astronomy
Field of study	Physics
Education profile	academic
Level of studies	First-cycle studies leading to Bachelor's degree
Beginning semester	winter term 2019/2020

Course information

Semester	2
ECTS credits to win	3
Course type	obligatory
Teaching language	english
Author of syllabus	• dr hab. Jarosław Kijak, prof. UZ

Classes forms

The class form	Hours per semester (full-time)	Hours per week (full-time)	Hours per semester (part-time)	Hours per week (part-time)	Form of assignment
Laboratory	45	3	-	-	Credit with grade

Aim of the course

To introduce the basic features of open source operating systems and free scientific and editorial software that will enhance students scientific activities

Prerequisites

Basic knowledge in computer science and operating systems

Scope

Linux operating systems basics is the main topic of interest durint the lab. Information on the server systems software, IT security and Linux as a desktop compose the course contents, which are: system installation, Bash shell scripting, text editors (Emacs, Vi), system users and resources, system daemons and initial scripts. The second important issue taken up during the course is the document preparation system – LaTeX.

Teaching methods

Lecture and computer lab, discussions, individual students readings of technical documentation

Learning outcomes and methods of theirs verification

Outcome description	Outcome symbols	Methods of verification	The class form
Linux as a desktop - system installation.	• K1A_W04 • K1A_U04	• a quiz	• Laboratory
Student can create reports in LATEX system.	• K1A_W09 • K1A_U08 • K1A_K02 • K1A_K03	• a project	• Laboratory
Student is able to generate scientific graphics using gnuplot system and is able to use the technical documentation and other technical resources available on the Internet.	• K1A_U01 • K1A_U07	• a quiz	• Laboratory
Linux operating systems, Information on the server systems software, IT security.	• K1A_W04 • K1A_W06	• a discussion	• Laboratory

Assignment conditions

The positive evaluation of the tasks/effects: 1. (10%), 2. (25%), 3. (40%), 4. (25%)

Final grade: 100% laboratory

Recommended reading

[1] Linux. Komendy i polecenia. Praktyczne przykłady, Helion 2007.
[2] Nie za krótkie wprowadzenie do systemu LaTeX, Tobias Oetiker i inni, 2007.

Further reading

Notes

Modified by dr hab. Piotr Lubiński, prof. UZ (last modification: 19-02-2020 15:59)