Title	Code
(Technologia informacyjna)	**1010104131010110655**
Field: **Civil Engineering Extramural First-cycle Studies**	Year / Semester: **2 / 3**
Specialty: **-**	Course: **core**
Hours: Lectures: **1** Classes: **-** Laboratory: **2** Projects / seminars: **-**	Number of credits: **2**
	Language: **polish**

Lecturer:

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Status of the course in the study program:

Information Technology

Assumptions and objectives of the course:

The goal of this course is to obtain skills of using computer as tools which aids civil engineering student learning system. The topics encapsulate basic issues of Computer Science, working with a UNIX operating system, basics of programming, introduction to scientific software package for numerical computations SciLab. The basics of numerical method, matrix algebra and engineering application of SciLab software will be discuses.

Contents of the course (course description):

Introduction to GNULinux, as example of UNIX-family operating system,
Introduction to scientific software package for numerical computations SciLab:
matrix algebra,
I/O function,
control flow statements,
creation of plots and graphics objects

Introductory courses and the required pre-knowledge:

The basics knowledge of working with computer (using moues, keyboard etc) and basic issues of Computer Science (basic concepts such as file, directory)

Courses form and teaching methods:

lectures ? theoretical introduction
workshops ? working alone at the computer, solving specific problems of varying levels of difficulty, developing an algorithm for a certain problem

Form and terms of complete the course - requirements and assessment methods:

The course is ended with the test. The students carry out a tasks during workshops. The activity in the classroom and the presence in class are taken into account as well.

Basic Bibliography:

1. Bruno Pinçon Wprowadzenie do Scilaba
2. Marek Stępień Podstawy obsługi systemów z rodziny UNIX

Additional Bibliography:

1. Marek Czajko, Micha Zasada Elementarz unix'owy
2. Jerzy Marczyński Red Hat Linux 7.2. Ćwiczenia praktyczne Wydawnictwo Helion Gliwice 2002
3. Leszek Madeja Ćwiczenia z systemu Linux. Podstawy obsługi systemu Mikom Warszawa 1999
4. Gilberto E. Urroz SciLab page, http://www.engineering.usu.edu/cee/faculty/gurro/Scilab.html