Study programme(s): Information Technologies	

Level: bachelor

Course title: Software Lab 2

Lecturer: <u>Vladimir M. Kurbalija, Gordana Đ. Rakić, Miloš M. Savić, Dragan M. Mašulović</u>

Status: elective

ECTS: 6

Requirements: none

Learning objectives

To prepare the students for advanced use of certain software tools for practical work in the relevant IT disciplines such as: working in different surroundings, web design, desktop publishing, command line management, version control, working with tools and big projects etc.

Learning outcomes

Minimum: At the end of the course, it is expected that a successful student is able to show advanced knowledge of appropriate software tools through the illustrative example.

Desirable: At the end of the course, it is expected that a successful student demonstrates an understanding of the basic principles of adequate software tools as well advanced knowledge of its use shown through illustrative example.

Syllabus

Theoretical instruction

Theoretical basis of the selected tool. Principles and purpose of its use in the relevant IT discipline. Learning to use all the advanced concepts of selected software tools on the examples.

Practical instruction

Practising advanced application of selected software tool on a real-world examples from different IT disciplines.

Literature

Upon the recommendation of teachers, depending on the chosen theme.

Weekly teaching load				Other:
Lectures: 1	Exercises: 0	Practical exercises: 3	Student research:	

Teaching methodology

Teachers report topics, and the Council approves them before the school year. While enrolling the semester, students choose the appropriate topic. Lectures are organized using classic teaching methods with use of a projector. During lectures, the principles of the advanced usage of selected software tool in the corresponding IT discipline are explained. On exercises, the real-world examples from different IT disciplines are processed using selected software tool. Knowledge of students is tested in up to three tests, depending on the number of units covered. The practical task, matching real-world example, is assigned to the student. On the oral exam, the practical work is defended by checking advanced understanding of the principles of selected of software tools.

Grading method (maximal number of points 100)			
Pre-exam oblications	**points**	**Final exam**	**points**
Practical instruction	**80**	Oral exam	**20**