Course title: Intelligent Systems in Education

Lecturers: Miloš Racković, Vladimir M. Kurbalija

Status: elective

ECTS: 15

Requirements:

Learning objectives

Introdution to theory and practice of application of intelligent systems in education.

Learning outcomes

Mastery of techniques of usage of intelligent systems in education.

Syllabus

Theoretical instruction

Basic characteristics, structure and components of E-learning systems. Basic theoretical principles of intelligent systems used in education. Influence of the development of contemporary information technologies on usage of intelligent systems in teaching. Elements and characteristics of elementary system modules. Characteristical structures of intelligent educational systems. Detailed description of key modules of intelligent systems: student module, pedagogy module. Assistant systems and their role in educational process. Intelligent XCI. Usage of agents in intelligent educational systems. Methodology of usage of intelligent systems in education. Didactical, pedagogical, and methodological elements of such systems. Possible usage of intelligent systems in various fields of teaching. Introduction to characteristical intelligent systems.

Student research

Exercises follow lectures as topics are presented.

Suggested literature:

1. Rena M. Palloff, Keith Pratt: The Virtual Student: A Profile and Guide to Working with Online Learners
2. Clark Aldrich: Learning by Doing : A Comprehensive Guide to Simulations, Computer Games, and Pedagogy in e-Learning and Other Educational Experiences

Weekly teaching load	**Lectures**: 5	**Student research**: 5

Teaching methodology

Lectures, consultations, interactive and dialog methods.

Grading (maximal number of points 100)

Pre-exam requirements	points	**Final exam**	points
Practical teaching		Oral exam	**40**
Colloquia			
Seminar papers	**60**		