

Course descriptions

Course name: Artificial intelligence	Credits: 5
Class type: lecture/practical/lab, hours per week: 2/1/1	
Type of the exam: oral exam	
Prerequisites (if exist): Probability, Statistics; Introduction to Programming II	
Course description:	
Introduction: (Embedded) intelligent system and its environment. Intelligent agents. Formalization of problem solving. Informed and uninformed search. Knowledge, representation, conclusion - universal issues. Logical knowledge-representation. Propositional calculus. Predicative calculus. Situation calculus. Building knowledge-representations. Representation of uncertain knowledge. Modeling uncertainty with fuzzy logic. Planning. Learning agent. Learning. Conclusion.	
Required reading:	
Russell, Stuart J.; Norvig, Peter (2003), Artificial Intelligence: A Modern Approach (2nd ed.), New Jersey: Prentice Hall, ISBN 0-13-790395-2; Winston, Patrick Henry (1984). Artificial Intelligence. Reading, Massachusetts: Addison-Wesley. ISBN 0-201-08259-4.	
Recommended reading:	
Materials available on the webpage of the course.	
Lecturer (<i>name, position, degree</i>): Dr. Kristóf Karacs, associate professor, PhD	
Additional lecturers , if exist (<i>name, position, degree</i>): Dr. Kristóf Karacs , associate professor, PhD	