

Study programmes: Bachelor studies - Informatics				
Course name: R260 - Artificial Intelligence				
Lecturers: Predrag Janičić and other lecturers of the Department for Computer Science				
Status: Compulsory				
ECTS: 6				
Attendance prerequisites: P100, P101, P102, M105, M106				
Course aims: Acquiring basic knowledge about artificial intelligence and applications.				
Course outcome: After the course, the student is able to model problems and to understand, construct, and implement basic algorithms of artificial intelligence.				
Course content:				
<ul style="list-style-type: none"> - Propositional logic, syntax and semantics; - Modelling in propositional logic; applications of SAT solvers; - First-order logic, syntax and semantics; - Modelling in first-order logic; applications of resolution provers; - Unification; resolution (without detailed analysis of properties); - Prolog; - Non-classical logics; examples and applications; - CSP; applications of CSP solvers; - Search; Sorts of search and properties; - Finding paths in graphs and A*; - Programming of logical games; - Genetic algorithms; - Classification; - Regression; - Clustering; 				
Literature:				
<ol style="list-style-type: none"> 1. Predrag Janičić, Mladen Nikolić: Veštačka inteligencija, Matematički fakultet, 2008. 2. Stuart Russell, Peter Norvig: Artificial Intelligence: A Modern Approach, Prentice Hall, 2009. (the lecturer can choose another appropriate literature) 				
Number of hours: 5	Lectures: 2	Tutorials: 3	Laboratory: -	Research: -
Teaching and learning methods: Frontal/Lectures/Exercises				
Assessment (maximal 100 points)				
Course assignments	points	Final exam		points
Lectures	-	Written exam		-
Exercises / Tutorials	-	Oral exam		-
Colloquia	50	Written-oral exam		50
Essay / Project	-			