

Study program: Business Informatics			
Type and level of studies: Master studies			
Course unit: Artificial Intelligence in Business			
Teacher in charge: Zoran Kalinic			
Language of instruction (<i>English or other foreign language</i>): English			
ECTS: 7			
Prerequisites: None			
Semester (<i>Winter Semester or Summer Semester</i>): Summer Semester			
Course unit objective: The objective of the course is to introduce foundations and basic concepts of artificial intelligence; to explain the significance of data in AI projects, its types and processing; to explain standard workflow of AI projects; to introduce different types of learning and quality metrics in AI and most important AI algorithms and discuss ethical issues in AI applications; to explain different AI applications particularly in business. The course is intended to non-engineers and beginners in AI and focuses on theoretical approach.			
Learning outcomes of Course unit			
<ul style="list-style-type: none"> - Knowledge and understanding of basic concepts and principles in artificial intelligence and data processing - Understanding of most significant AI algorithms - Knowledge of ethical issues in AI applications - Understanding of most important examples of AI applications in business (marketing, sales, CRM, etc.) 			
Course unit contents			
<ol style="list-style-type: none"> 1. AI foundations 2. Principles of AI 3. AI structure 4. Types of data; Big Data 5. Data Processing 6. AI project workflow 7. Types of learning; Supervised and unsupervised learning 8. Basic model performance metrics 9. Overview of most important AI and machine learning algorithms 10. Artificial neural networks; Deep Learning 11. Implementation of AI 12. Ethical issues in AI applications 13. AI applications in business 14. Future of AI 			
Literature			
Rose, D. (2018). Artificial Intelligence for Business, Chicago Lakeshore Press			
Tauli, T. (2015). Artificial Intelligence Basics: A Non-Technical Introduction, Apress			
Akerkar, R. (2019). Artificial Intelligence for Business, Springer			
Number of active teaching hours			Other classes
Lectures: 2	Practice: 2	Other forms of classes:	Independent work:
Teaching methods			
For five and less students (in English) – mentoring system; more than five students – classroom lectures			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures		oral examination	
practical classes/tests	20	written examination	50
Seminars/home work		
Project	30		
Other			
Grading system			
Grade	No. of points	Description	
10	91-100	Excellent	
9	81-90	Exceptionally good	
8	71-80	Very good	
7	61-70	Good	

6	51-60	Passing
5	0-50	Failing

(Table 5.2) Course unit description