Specification for the book of courses

Study program	Electrical Engineering and Computer Science		
Module	Computing and Informatics		
Type and level of studies	Undergraduate Academic Studies		
The name of the course	Information Retrieval		
Lecturer (for lectures)	Stojković R. Suzana		
Lecturer/associate (for exercises)	Marković M. Ivica		
Lecturer/associate (for OFE)	Marković M. Ivica		
Number of ECTS	5	**Course status (obligatory/elective)**	Elective
Prerequisites			
Course objectives	The goal of this course is to introduce students to information retrieval systems (their architecture, structures of the data used for the representation of documents and queries, and algorithms for manipulating the structures)		
Course outcomes	After completing this course, students should acquire theoretical knowledge of the principles of the work of the inforamtion retrieval systems and to be able to design and develop Web retrieval system and system for searching other types of unstructured data.		
Course outline			
Theoretical teaching	Information retrieval definition. The basic functions of the information retrieval system. The components of the information retrieval system. Inverted index as the main data structure for representing documents in information retrieval systems. Algorithms for inverted index generation. Boolean and vector retrieval model. Evaluation of information retrieval systems. Basics of web search. Web crawling. Link analysis, page rank and HITs algorithms.		
Practical teaching (exercises, OFE, study and research	Development of information retrieval systems by using open source libraries.		
Textbooks/references			
1	C. D. Manning, P. Raghavan, H. Schutze: An Introduction to Information Retrieval, Cambridge University Press, Cambridge, England, 2009.		
2	ppt prezentations from lectures		
3			
4			
5			

Number of classes of active education per week during semester/trimester/year				
Lectures	**Exercises**	**OFE**	**Study and research work**	**Other classes**
2	2	1	0	0
Teaching methods	Lectures, auditorial exercises, lab. practice, student seminars (presentation and discussion of students' work)			

Grade (maximum number of points 100)			
Pre-exam duties	**Points**	**Final exam**	**Points**
Activity during lectures		**Written exam**	
Exercises	20	**Oral exam**	40
Colloquia	40		
Projects			