Specification for the book of courses

Study program	Computing and Informatics		
Module	Information Systems and Technologies		
Type and level of studies	Master studies		
The name of the course	Command and Control Information Systems		
Lecturer (for lectures)	Rančić D. Dejan, Predić B. Bratislav		
Lecturer/associate (for exercises)	Predić B. Bratislav		
Lecturer/associate (for OFE)			
Number of ECTS	4	**Course status (obligatory/elective)**	Elective
Prerequisites			
Course objectives	Introduction to the basic characteristics and application areas of command & control information systems. Learning how participate in the process of design, development, implementation, operation and maintenance of command & control information systems.		
Course outcomes	Theoretical and practical knowledge of the command &control information systems. Capability to program and use existing command & control information systems. Mastering the basics of the theory and techniques of communication in command & control information systems. Mastering fundamentals of the analysis and security of command & control information systems.		
Course outline			
Theoretical teaching	Historical overview of the development of command & control information systems (C2IS). The basic functionality of C2IS. C2IS architecture. Standards in the area of C2IS. Communication in C2IS. Integration with GIS. The use of GPS technology in C2IS. Sensor integration. Data fusion. Tracking of mobile objects. Reporting in C2IS. Support for decision making. Application areas of C2IS. Military C2IS. C2IS for weather modification.		
Practical teaching (exercises, OFE, study and research	Practical implementation of some parts of command & control systems.		
Textbooks/references			
1	Giles Ebbutt, Jane's C4I Systems 2011-2012, Janes Information Group, 2012.		
2	Committee To Review Dod C4i Plans And Programs, Realizing The Potential Of C4i: Fundamental Challenges, National Academy Press, 1999.		
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	1	0		
Teaching methods	Lectures, exercises, individual student work on projects.			

Grade (maximum number of points 100)			
Pre-exam duties	**Points**	**Final exam**	**Points**
Activity during lectures		**Written exam**	
Exercises		**Oral exam**	50
Colloquia			
Projects	50		