Program	Level	Level			Second cycle			
	Name of the p	e of the program		Theoretical Computer Science				
COURSE								
Course title	Software Engineering							
Course code	Semester	r Course status			ECTS	Contact hours (L+AE+LE)		
CS 510	III	Mandatory			8	2+2+1		
Lecturer								
Cilj predmeta	The objectives of the course are familiarization with the models of building the entire information system. Students will learn about software development, from requirements analysis and specification, through design and implementation, verification and validation, and maintenance. The emphasis is on IT aspects of software development and the goal is to introduce students to different (often conflicting) ideas and models of software engineering, and their advantages and disadvantages. Exercises are performed more concretely, i.e. by application selected method and appropriate CASE tool.							
Learning Through the course, students will master the use of tools through indepen-						rough independent work, as		
Outcomes well as tools for designing and implementing an information system, as well as training								
- Basic terms related to software engineering. Models for software process								
 Software project management Requirements and specifications; System modelling Use of prototypes; Formal specification Design and Implementation System architecture design; Architectures of distributed systems Object-oriented design approach Verification and validation; Static verification Maintenance and evolution; Configuration Management Legacy software and its modification 								
LITERATURE								
 Lecture notes Sommerville I: Software Engineering, 8-th Edition. Addison-Wesley, Harlow, England, 2006. ISBN 0- 321-31379-8. http://www.software-engin.com Van Vliet H.: Software Engineering - Principles and Practice, 2-nd Edition. John Wiley and Sons, Chichester, England, 2000. ISBN 0-471-97508-7. http://www.wiley.co.uk/vanvliet Pressman P.S.: Software Engineering - A Practicipation Approach (the Edition McCorrect UN). New York 2007. 								
York, 2005. ISBN 0-07-285318-2.								
 [5] Schach S.R.: Object Oriented & Classical Software Engineering, 7-th Edition. McGraw Hill, NewYork, 2006. ISBN 0-07-319126-3. [6] Pont M.J.: Software Engineering with C++ and CASE Tools. Addison-Wesley, Harlow, England, 1996. ISBN 0-201-87718-X. [7] Grupa autora: Argo UML - an UML Tool with Cognitive Support. Open Source Software Engineering Tools. http://argouml.tigris.org/ 								
-	STU	DENT WO	RKLOAD	(hours in	a semester)			
Lectures 30) Exerc	ises 45		Individual	work 125	Total 200		
	GRADING				REI	MARKS		
Criterion	Maxin	num Mi	inimum ints					
Midterm exams	5	3						
Homework	5	3						
Projects	40	21						
Seminar	5	3						
Final exam	45	25						
Total	100	55						