1.	Course title	**Information System Development Process**		
2.	Course code	CSES625		
3.	Study program	FCSE		
4.	Unit offering the course	**FCSE**		
5.	Undergraduate/postgraduate/PhD	**Undergraduate**		
6.	Year/semester: 3/summer/elective 4/summer/elective	7. ECTS: **6**		
8.	Teacher(s)	dr. Danco Davcev, dr. Margita Kon-Popovska, dr. Dejan Gjorgjevic, dr. Vladimir Trajkovic, dr. Ivan Corbev		
9.	Course prerequisites	None		
10.	Goals (competences): Introduction to the use of IT to improve the quality, design, assistance and transfer of organizational goals and directions. Introduction of IS as a strategic and integral component of an organization. Discussion and review process for IS development: development methodologies, lifecycle workflow. Strict versus agile methodologies, structural versus object-oriented methodologies. Demonstration of examples of application systems in organizations including ERP, CRM, SCM and KN. Upon completion of the course the student is expected to demonstrate knowledge of development processes of IS, and items related to the introduction and application of methodologies.			
11.	Course content: Review of major concepts and components of IS. Methodology, methods, techniques, tools, and factors affecting the use of the methodology. Frame selection and assessment methodology. Information systems lifecycle, Business and IS perspectives of major types of IS (ERP, SCM, CRM, KN). Strict versus agile methodologies, structural versus object-oriented methodologies. Object-oriented methodologies (Rational Unified Process); Structured methodologies (SSADM); Development of heavy to agile approaches (DSDM, XP, SCRUM). Soft methodologies (Soft Systems Methodology); participatory approach (DSDM, ETHICS); integrated approach (Multiview); Specialized applications and their methodology needs (Web Information Systems). Issues concerning the introduction and application of methodologies. Managing large-scale projects.			
12.	Teaching methods: Lectures supported by presentations with slides, interactive lectures, exercises invited guest lecturers, preparation and defence of a project work and seminar thesis, learning in an e-environment (forums, consultations).			
13.	Total available time	6 EKTC x 30 h = 180 h		
14.	Distribution of the available time	30 + 60 + 30 + 30 + 30 = 180 h		
15.	Teaching activities	15.1.	Lectures	30 hours
		15.2.	Training (labs, problem solving), seminar and team work	60 hours
16.	Other activities	16.1.	Project work	30 hours
		16.2.	Self study	30 hours
		16.3.	Home work	30 hours

17.	Grading				
	17.1.	Tests			60 points
	17.2.	Seminar work/project (written or oral presentation)			30 points
	17.3.	Active participation			10 points
18.	Grading criteria		to 50 points		5 (five) (F)
			from 51 to 60 points		6 (six) (E)
			from 61 to 70 points		7 (seven) (D)
			from 71 to 80 points		8 (eight) (C)
			from 81 to 90 points		9 (nine) (B)
			from 91 to 100 points		10 (ten) (A)
19.	Final exam prerequisites		completed activities 15.2, 16.1 and 16.2		
20.	Course language		Macedonian and English		
21.	Quality assurance methods		Internal evaluation and satisfaction polls		

22. Literature

22.1. Compulsory

No.	Authors	Title	Publisher	Year
1.	Jane P. Laudon, Kenneth C. Laudon	Management Information Systems 10/e	Prentice Hall	2007
2.	David Avison, Guy Fitzgerald	Information Systems Development: Methodologies, Techniques and Tools 4th	McGraw-Hill Higher Education	2006
3.				

22.2. Additional

No.	Authors	Title	Publisher	Year
1.	Per Kroll and Philippe Kruchten	The Rational Unified Process Made Easy—A Practitioner's Guide	Addison-Wesley	2003
2.	Kent Beck, Cynthia Andres	Extreme Programming Explained: Embrace Change	Addison-Wesley	2004
3.				