1.	Course Title	Business process modeling and management
2.	Code	F18L3S130
3.	Study program	Software engineering and information systems
4.	Study Program Organizer	Faculty of Computer Science and Engineering
5.	Degree (first, second, third cycle)	first cycle
6.	Academic year / semester 4 / summer / optional	7. ECTS credits 6
8.	Teacher	assistant professor Georgina Mircheva
9.	Course enrollment prerequisites	Бази на податоци и (Софтерско инженерство или Анализа на софтверски барања)

10.	Course program goals (competencies):
	After completion of the course, the student is expected to understand and have deeper knowledge of types of business processes and their relationship to information systems, will have deeper knowledge in identification, modeling and mapping various types of business processes, will be able to apply tools and languages for business process modeling through appropriate diagrams, will have knowledge of the principles for improving process flow, will have knowledge of the concepts of data exchange and interoperability.

11.	Course program content:
	Introduction to business processes. Phases of the cycle for business process management. Identification of business processes. Languages for business process modeling. Business process modeling with BPMN. Choreography diagram. Process discovery. Qualitative analysis of business processes. Quantitative analysis of business processes. Process redesign. Automation of business processes. Business process mining.

12.	Learning methods:
	Lectures using presentations, interactive lectures, exercises (using equipment and software packages), teamwork, case studies, invited guest lecturers, independent preparation and defense of a project assignment and seminar work.

13.	Total available time		6 ECTS x 30 hours = 180 hours
14.	Distribution of the available time		30 + 45 + 15 + 15 + 75 = 180 hours
15.	Teaching activity forms	15.1.	Lectures – theoretical teaching	30 hours

		15.2. Exercises (laboratory, auditory), seminar papers, teamwork	45 hours
16.	Other activity forms	16.1. Project Tasks	15 hours
		16.2. Independent Learning Tasks	15 hours
		16.3. Home learning	75 hours

17.	Assessment methodology	
	17.1. Tests	10 points
	17.2. Seminar paper/project (presentation: written and oral)	10 points
	17.3. Activity and learning	10 points
	17.4. Final exam	70 points

18.	Assessment criteria (points/grade)	up to 50 points	5 (five) (F)
		51 to 60 points	6 (six) (E)
		61 to 70 points	7 (seven) (D)
		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)

19.	Course completion and final exam requirements	Realized activities 15.1 and 15.2
20.	Teaching Language	Macedonian and English
21.	Teaching quality evaluation method	Internal evaluation mechanisms and questionnaires

22.	Course Material
	22.1. Mandatory course material

No.	Author	Title	Publisher	Year
1	Marlon Dumas, Marcello La Rosa, Jan Mendling, Hajo A. Reijers	Fundamentals of Business Process Management	Springer-Verlag Berlin Heidelberg	2013
2	Martyn A. Ould	Business Process Management: A Rigorous Approach	Wiley	2005
3	Michael Havey	Essential Business Process Modeling	O'Reilly	2005
4	Mathias Weske	Business Process Management: Concepts, Languages, Architectures 2nd ed.	Springer	2007
5	Martyn A. Ould	Business Processes : Modelling and Analysis for Re-Engineering and Improvement	Wiley	1995

22.2.	Additional course material			
	No.	Author	Title	Publisher	Year