STRUCTURE OF THE TWO YEAR STUDY PROGRAM ON SOFTWARE ENGINEERING, SECOND CYCLE OF STUDIES WITH 120 ECTS

Eight semester		
	Title of the subject	Credits
		ECTS
1	System theory	7
	Elective courses (3 of 4):	
	Calculation in cloud and SOA	6
	Embedded systems	6
	Operational research	6
	Virtual societies	6
	Elective subject from the offered electives from a university list of electives	
		5
	Total	30

Literature			
Subject	Literature		
System theory	Systems Analysis and Design, Kenneth E. Kendall, J. Kendall, Pearson, 2014 Linear System Theory, Wilson J. Rugh, Pearson, 1996		
Calculation in cloud and SOA	Пресметување во облак и СОА, Thomas Erl, Prentice Hall, 2005 Cloud Computing: Automating the Virtualized Data Center (Networking Technology), Venkata Josyula, Malcolm Orr, Greg Page, Venkata Josyula, Malcolm Orr, Greg Page, 2011		
Embedded systems	Introduction to Embedded Systems, Jonathan W Valvano, CreateSpace Independent Publishing Platform; 1 edition, 2016 Designing Embedded Systems with Arduino: A Fundamental Technology for Makers, Tianhong Pan, Yi Zhu, Springer; 1st ed., 2017		
Operational research	Operations Research: Algorithms and Applications, Ratindra P. Sen, PHI, 2010 Linear and Nonlinear Programming, D.G.Luenberger, Y.Ye,		

	Stanford University, D.G.Luenberger, Y.Ye,
	Stanford University, 2008
	Operations Research, H.A. Taha, Magor, 2010
	Мобилизирање на информатичкото
	<i>општество,</i> Робин Мансел Р.Едвард
	Стеинмуелер, ТРИ, 2009
	The State of Play: Law, Games and Virtual
	Worlds, J. Balkin, B. S. Noveck, New York
	University Press, 2006
	Virtual Society: Technology, Cyberbole, Reality,
Virtual societies	Steve Woolgar, Oxford University Press, 2002