STRUCTURE OF THE TWO YEAR STUDY PROGRAM ON SOFTWARE ENGINEERING,

SECOND CYCLE OF STUDIES WITH 120 ECTS

Seventh semester		
	Title of the subject	Credits
		ECTS
1	IP design	6
2	Software design and testing	6
3	Databases 2	6
	Elective courses (2 of 4):	
	Web programming	6
	Web programming 2	6
	Microprocessor systems	6
	Random processes	6
	IT security policies and procedures	6
	Total	30

Literature		
Subject	Literature	
IP design	Software Engineering, Ian Somerville, Prosvetno	
	Posestvo AD Skopje, 2009	
Software design and testing	Designing Software Architectures: A Practical	
	Approach, H. Cervantes, Addison Wisley, 2016	
	Exploratory Software Testing: Tips, Tricks, James	
	A. Whittaker, Addison Wisley, 2010	
Databases 2	Database System Concepts, Silberschatz A., Korth	
	H, Sundershan S., McGraw-Hill, 1996	
	Microsoft SQL Server 2012 T-Sql Fundamentals,	
	Itzik Ben-Gan, Dreamtech Press, 2012	
	Oracle Database 12c The Complete Reference,	
	Bob Bryla, Kevin Loney, McGraw-Hill Education; 1	
	edition, 2013	
Web programming	C# 7.1 and .NET Core 2.0 - Modern Cross-	
	Platform Development - Third Edition: Create	
	powerful applications with .NET Standard 2.0,	

Web programming 2	ASP.NET Core 2.0, Visual Studio 2017 or Visual Studio Code, Mark J. Price, Packt Publishing, 2017 C# 7.1 and .NET Core 2.0 - Modern Cross- Platform Development - Third Edition: Create powerful applications with .NET Standard 2.0, ASP.NET Core 2.0, Visual Studio 2017 or Visual Studio Code, Mark J. Price, Packt Publishing, 2017
Microprocessor systems	8088 and 8086 Microprocessors, The: Programming, Interfacing, Software, Hardware, Walter Triebel, A. Singh, Pearson, 2003 Introduction to Microprocessor Based Systems Using the ARM, Kris Schindler, Pearson, 2013
Random processes	 Probability and Statistics with Reliability, Queuing, and Computer Science Applications, Second Edition, Kishor Trivedi, John Wiley and Sons, New York, 2001 Fundamentals of Applied Probability and Random Processes, Oliver C. Ibe, Elsevier, 2005 Discovering statistics using SPSS, A. Field, SAGE Publications, 2005
IT security policies and procedures	Information security policies and procedures: A practitioner's reference (2nd ed.), Peltier, T. R., Auerbach Publications, New York, NY/London, 2004 Security Program and Policies: Principles and Practices, 2/E, Sari Greene, Pearson IT Certification, 2014 Computer Security, Dieter Golman, Adverb, 2010