

FACULTY OF INFORMATICS (FOURTH YEAR)

Seven 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 2	6
	Microprocessor systems	6
	Random processes	6
	IT security policies and procedures	6
Total		30

Literature	
Subject	Literature
IP design	<i>Софтверско инженерство, Иан Самервил, Просветно дело АД Скопје, 2009</i>
Software design and testing	<i>Designing Software Architectures: A Practical Approach</i> , H. Cervantes, Addison Wisley, 2016 <i>Exploratory Software Testing: Tips, Tricks</i> , James A. Whittaker, Addison Wisley, 2010
Databases 2	<i>Database System Concepts</i> , Silberschatz A., Korth H, Sundershan S., McGraw-Hill, 1996 <i>Microsoft SQL Server 2012 T-Sql Fundamentals</i> , Itzik Ben-Gan, Dreamtech Press, 2012 <i>Oracle Database 12c The Complete Reference</i> , Bob Bryla, Kevin Loney, McGraw-Hill Education; 1 edition, 2013
Web programming 2	<i>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</i> , Mark J. Price, Packt Publishing, 2017

<p>Microprocessor systems</p>	<p><i>8088 and 8086 Microprocessors, The: Programming, Interfacing, Software, Hardware</i>, Walter Triebel, A. Singh, Pearson, 2003 <i>Introduction to Microprocessor Based Systems Using the ARM</i>, Kris Schindler, Pearson, 2013</p>
<p>Random processes</p>	<p><i>Probability and Statistics with Reliability, Queuing, and Computer Science Applications, Second Edition</i>, Kishor Trivedi, John Wiley and Sons, New York, 2001 <i>Fundamentals of Applied Probability and Random Processes</i>, Oliver C. Ibe, Elsevier, 2005 <i>Discovering statistics using SPSS</i>, A. Field, SAGE Publications, 2005</p>
<p>IT security policies and procedures</p>	<p><i>Information security policies and procedures: A practitioner's reference (2nd ed.)</i>, Peltier, T. R., Auerbach Publications, New York, NY/London, 2004 <i>Security Program and Policies: Principles and Practices, 2/E</i>, Sari Greene, Pearson IT Certification, 2014 <i>Computer Security, Dieter Golman, Adverb, 2010</i></p>