

## COURSE DESCRIPTION

<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Management	
<b>Course ID:</b> FM.KIS/307AB/16	<b>Course title:</b> Special Topics in IT Projects
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 28</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 3	
<b>Recommended semester:</b> 6.	
<b>Educational level:</b> I., II.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> During the semester there will be a written test for 30 points (so-called midterm exam). Rating 70 points will be awarded for a semester project and its presentation. Scale of assessment (preliminary/final): Test 30%, Presentation of seminar project 30%, Seminar work (.docx) 40%	
<b>Learning outcomes:</b> The paradigm of digitization is radically changing the world's business and society. Related to this is the growing volume of IT projects, which places increasing demands on project managers. The aim of the course is to include bachelor's degree graduates among the excellently theoretically prepared graduates in the field of project management with a focus on ICT. To acquaint students with the specifics and modern-agile approaches in their management.	
<b>Class syllabus:</b> <ul style="list-style-type: none"> <li>• Correctly estimate and control the scope of the IS / ICT project</li> <li>• Manage the time, cost and quality of the IS / ICT project</li> <li>• Work effectively with human resources</li> <li>• Use all available means of communication</li> <li>• Monitor and detect potential risks in a timely manner</li> <li>• Maximize the benefits of external collaboration</li> <li>• Combine the individual parts of the IS / ICT project into a functional whole</li> </ul> <b>Thematic plan:</b> <ol style="list-style-type: none"> <li>1. Types of IT projects, Introduction to software development</li> <li>2. Software development process, software development participants, software life cycle models</li> <li>3. Architectural design</li> <li>4. Requirements and specification of IT project</li> <li>5. Estimation of scope in IT projects</li> <li>6. Risk management</li> <li>7. Implementation: classical procedures and agile procedures</li> <li>8. Methodology Scrum, Kanban, Lean Development, Test Driven Development</li> <li>9. Verification and validation - testing</li> <li>10. Effective communication on IT project</li> </ol>	

11. Selected principles of software engineering  
12. Software development management support tools

**Recommended literature:**

- Kathy Schwalbe: Řízení projektů v IT, Computer Press, Brno 2007, ISBN 978-80-251-1526-8
- RNDr. Michal Greguš PhD.: Manažment malých softvérových týmů, Bratislava, 2009, učebný text
- KADLEC, Václav, 2004. Agilní programování: Metodiky efektivního vývoje softvéru. Prvé vydanie. Brno: Computer Press. ISBN 80-251-0342-0.
- MCCONNELL, Steve, 2006. Odhadování softvérových projektu: Jak správně určit rozpočet, termíny, zdroje. Prvé vydanie. Brno: Computer Press. ISBN 80-251-1240-3.
- Meredith and Mantel, Project Management: A Managerial Approach, 6th ed., Wiley and Sons, 2005,
- PROJECT MANAGEMENT INSTITUTE: A Guide to the Project Management Body of Knowledge (PMBOK Guide) – Fifth Edition. An American National Standard ANSI/PMI
- BIELIKOVÁ M.: Softvérové inžinierstvo, Princípy a manažment, Slovenská technická univerzita v Bratislave, 2000

**Languages necessary to complete the course:**

English

**Notes:**

**Past grade distribution**

Total number of evaluated students: 11

A	ABS	B	C	D	E	FX	M
72,73	0,0	0,0	9,09	0,0	0,0	18,18	0,0

**Lecturers:** doc. RNDr. Michal Greguš, PhD.

**Last change:** 31.01.2022

**Approved by:**