Subject code:	Subject name: Mana	gement of software dev	velopment	
P.2(3)				
Study load:	Load of contact	Study semester:	Assessment:	
2 ECTS	hours: 50	Autumn	5-point grade credit	
Objectives:	The goal of this course is to cover all basic processes and areas of software development and support project management.			
Course outline:	Topics covered:			
	Key terms, methodologies and project types			
	2. Project documentation.			
	3. Development team management.			
	4. Communications.			
	5. Software quality assurance			
	6. Project infrastructure and legacy code			
	7. Environments, CI/CD			
	8. Project release.			
	Contact lessons are divided into two parts: lectures and project management workshops with team tasks and specific roles assigned to each student.			
Learning Outcomes:	The students should know the main terms of software development management, distinguish the main project types and select correct approach and style of managing the project.			
		e able to set up the proc ware delivery and main	cesses of development, ntenance for any project.	
Assessment Methods:	Assessment is split into two parts: team-based activities (60 points) and the viva voice examination in the end of the course (40 points).			
Teacher(s):	Petr Lysachev			

Prerequisite subject(s):	None		
Compulsory Literature:	PMBOK® Guide 6th Edition		
Replacement Literature:	PMBOK® Guide 5th Edition		
	Making Things Happen: Mastering Project Management, Scott Berkun		
	The Plugged-In Manager: Get in Tune with Your People, Technology, and Organization to Thrive, Terri L. Griffith		
Participation requirements:	Lower limit of lectures attendance is 80%, each student must take part into team workshops.		
Independent work:	 RFP preparation Communication with customer, BA phase Shaping the solution Work breakdown structure Estimates workshop Project plan Writing the Proposal Planning deployments and maintenance 		
Grading criteria scale or the minimal level necessary for passing the subject:	Failed < 50 points Satisfactory >= 50 points < 70 points		

	Good	>= 70 points		
		< 90 points		
	Excellent	>= 90 points		
	Points distribution: Ongoing assessment: Workshop team activities: 10 points/each Final Examination			
	Viva voice exami	nation in the end of the course: 40 points		
Information about the course:	Room, on at			
1) Date 1	Practical class 1	Practical class 1		
	Grouping students in the teams, selecting a project topic for the each team, assigning roles to a team member.			
2) Date 2	Lecture 1	Lecture 1		
	Classroom presen	Classroom presentation:		
	1. Key term:	goal, project, project types, team		
		methodology, iterative methodologies. Choosing ogy basing on project type and other factors		
	Practical class 2			
	Meeting with a cu	istomer		
3) Date 3	Practical class 3			
	Meeting with a cu	Meeting with a customer		
4) Date 4	Lecture 2			
	Classroom presen	tation:		

	Project documentation. Non-disclosure agreement. Request for Proposal, Proposal, Statement of Work, Master Service Agreement	
	Practical class 4	
	RFP preparation	
5) Date 5	Practical class 5	
	RFP review	
6) Date 6	Lecture 3	
	Team management. Styles of management. Conflict management. Personnel motivation. Team performance increase.	
	Practical class 6	
	Work breakdown structure preparation	
7) Date 7	Practical class 7	
	Work breakdown structure review and refinement	
8) Date 8	Lecture 4	
	Communications. Information flow in the team. Customer expectations management.	
	Practical class 8	
	Project schedule preparation, team composition	
9) Date 9	Practical class 9	
	Project schedule review	
10) Date 10	Lecture 5	
	Types of software testing. Unit tests, automated testing, load testing, stress-tests.	
	Practical class 10	
	Test cases writing, check lists preparation.	
11) Date 11	Practical class 11	
	Risks registry preparation and review, dependencies tracking	
12) Date 12	Lecture 6	

	Project infrastructure. Existing systems extension, support of legacy		
	code. Refactoring. Data migration		
	Practical class 12		
	Proposal preparation		
13) Date 13	Practical class 13		
	Proposal preparation		
14) Date 14	Lecture 7		
	Environments: Dev, QA, Staging and Production. Continuous integration and continuous deployment.		
	Practical class 14		
	Proposal review		
15) Date 15	Practical class 15		
	Proposal review		
16) Date 16	Lecture 8		
	Going into production. Back-up plans. System deployment. System support and maintenance. Project finishing. Routines for closing the project		
	Practical class 16		
	Release planning, release checklists		
17) Date 17	Practical class 17		
	Course retrospective, answering the questions.		