Subject code: IF17164	Subject name: Mobile Devices Workshop		
<i>Study load:</i> 4 (EAP/ECTS)	Load of contact	Study semester:	Assessment: Exam
	hours: 20	Autumn	
Objectives:	The objective of the course is to provide an overview of the mobile applications technologies. The course introduces students to creation of the application concept, frameworks, a designed prototype and a responsive prototype. Students are expected to work in teams, creating of the concept of an application and a working prototype by using operating system specific software (SDK) or web tools.		
Course outline:	 05.10 Examples of HTML5 and 0 Applying the Basic JavaSo Homework: A thematic code (e.g. a calculato) 	mobile applications. CSS examples of mobile w pre-designed templates to cript commands for a mobi c web page for a mobile d r).	vebsite design. personal web-pages. le website. evice, containing JavaScript
	 19.10 More comple JQueryMobile Data storage (AppCache). Drawing in H² Setting up An Basic program application de Android-spect (@override, ee Hello World of Hello World of Hello World of Hello World of Homework: Creating properties (in JavaSc 30.11 Java-based la using XML. Designing an Java (using E Overview of A (IDE) for deval 	x solutions of client-side p e. (WebStorage) and bufferin TML5 Canvas. Indroid development enviro m structure. XML- and Jav evelopment. Sific methods in Java for we evelopment. Sific methods in Java for we set solution with search set solution wi	rogramming in JavaScript. Ing the web-pages Inment (Eclipse). ra-based layout for Android riting Android applications and client-side recording on development, without ex Android applications in development environment ctly on Android devices.

Homework: Creating a native application (preferably with some features which are not easily developed when using web-based tools).

	 14.12 The server-side programming in PHP. Combining the server-side applications with client-side applications on mobile devices. Seminar, based on topics covered within the course. Homework: A group project of designing and creating of (2-4) usable mobile solutions. 		
Learning Outcomes:	 11.01.2014 (?) Test. Project presentations The students are aware of the opportunities and threats of developing mobile applications. They are able to choose an appropriate platform and technology for developing a mobile solution. The students are able to design mobile applications, and create basic applications by themselves.		
Assessment Methods:	Homeworks. Seminar. Test.		
Teacher(s):	Jaagup Kippar, Kätlin Kalde		
Subject name in Estonian:	Mobiilirakenduste töötuba		
Prerequisite subject(s):	IFI7102 "Computer Skills and Programming Update" or equivalent skills		
Compulsory Literature:	 Ilya Shmorgun. Supporting Interaction Design Processes with Concept Mapping. Retrieved 06.09.2011 from <u>http://www.cs.tlu.ee/teemaderegister/get_file.php?id=112&name=ilj</u> <u>a_smorgun.pdf</u> Institute for Human and Machine Cognition. The Theory Underlying Concept Maps and How to Construct and Use Them. Retrieved 06.09.2011 from <u>http://cmap.ihmc.us/Publications/ResearchPapers/TheoryCmaps/T heoryUnderlyingConceptMaps.htm</u> Programming Android. Java Programming for the New Generation of Mobile Devices. 2011. By Zigurd Mednieks, Laird Dornin, G. Blake Meike, Masumi Nakamura. <u>http://developer.android.com/training</u> 		
Replacement Literature:	To be discussed with the teacher. It is not possible to finish the course only with replacement literature.		

Participation and			
Exam requirements:	To pass the exam, the student has to have a specific role in a team, being able to describe it. The student must actively take part in the seminar and be able to converse on topics covered in the course. Attendance requirements: the student must attend at least 75% of contact hours.		
Independent work:	 Students are required to work independently within the work groups and accomplish the tasks assigned to them by completing their Homeworks; planning, developing and presenting a group project at the end of the course. 		
Grading criteria scale or the minimal level necessary for passing the subject:	 Ability to design and create mobile apps: A – As a group leader, is able to create and coordinate the creation of suitable applications for the end-user. B – As a workgroup member, is able to design, create and complete applications. C – Is able to plan and create applications. D – Is able to plan and create basic applications. E – Is able to customize basic applications. 		