

<b>Óbudai University</b>			
<b>Alba Regia Technical Faculty</b>			
<i>Name of the subject and Neptun code: Mobile applications I. AMXMAPIMNE</i>			
<i>credit: 4</i>			
Regular training	2021/2022.		1st semester
Faculty:			
Subject leader:	Éva Hajnal PhD.	Teacher:	Márton Huszics
Prerequisites			
Weekly hours:	Lecture: 1	gs:0	Lab: 2
Test method:	Written test		
<b>Description of the subject:</b>			
<p><i>Aim:</i> During the course students have to be introduced into Android RAD tool features. They study the Android operating system and it's programming, standard and custom libraries. The students have to know the development environment, compilation, debugging and android process and activities life cycle. They skill in database connection, CRUD operations. They learn about hardware control: device orientation, accelerometer, GPS, camera and networking, web services.</p>			
<i>Curriculum:</i>			
<b>Contents</b>			<b>Hours</b>
Lecture:			
Introduction to Android Studio. Graphics interface			3
Java basics			3
Data storage			3
GPS handling, location, Google Maps and other alternative solutions			3
1. Test (paper and computer test)			3
National celebration			0
Sensors			3
National celebration			0
File handling			3
Data-base operations, CRUD			3
Project			3
Optimization, Android Market			3
2. test (paper and computer)			3
Project demonstration			3
<b>Requirements</b>			
5. and 13 weeks test			
At least 50% in the tests			
Paper and computer test , project demonstration			
<b>References:</b>			
John Horton: Android Programming for Beginners			