

CIT 408– Android Programming with Java Teaching Plan

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Course Name		Android Programming with Java								
Course Code		CIT 408 Major Area Elective								
Course Type		Major Area Elective								
Course Level		Undergraduate								
AKTS Credit	11 N	5 ECTS								
Course hours per week (Insti	tutional)	3								
Practice hours per week		-								
Laboratory hours per week		2								
Academic Semester		2013-2014 Spring								
Course coordinator(s)		Dr. Hüseyin Lort								
Instruction system										
Medium language		English								
Prerequisite		CIT 204 – Programming Lang	uages II							
Suggestions related to course	e	N/A								
Training required		N/A								
Aim of the course		The major goals of this cours	-							
		1.Understand the anatomy								
		2. Design user friendly applied								
		3. Design and implement a basic android app.								
		4. Design and implement an android app with a GUI								
Learning outcomes		At the end of this course students should,								
		1. Use the development tools in the Android development								
		environment.								
		2. Use the major components of Android API set to develop								
		their own apps.								
		3. Describe the life cycles of Activities, Applications and								
		Fragments.								
		4. Use the Java programming language to build Android apps.								
		5. Make UI-rich apps using all the major UI components.								
		6. Be familiar with new UI components like Fragments and the								
		Action Bar.								
Course Contont		7. Send and receive SMS messages programmatically.								
Course Content	<u> </u>	Tonica								
	Week		Topics							
Course content per week	4	Theory	Practice							
Course content per week	1	Introduction to JAVA	Exercises in JAVA programming							
	2	OOP in JAVA	Exercises in OOP							
	3	The components of an	An introduction to Eclipse and							
		Android application.	the Android Developer Tool(ADT)							
		Activities, Fragments and								
		Intonto								
	A	Intents								
	4	My First Android	Pacis Android Applications							
	4	My First Android Application, the "Hello	Basic Android Applications							
		My First Android Application, the "Hello World" application								
	4	My First Android Application, the "Hello	Views, Layouts, Display							
		My First Android Application, the "Hello World" application								

	6	Designing th Interface	ne User	Button, ImageButton, EditText, CheckBox, ToggleButton, RadioButton, and RadioGroup Views					
	7	Designing th Interface	ne User	Button, ImageButton, EditText, CheckBox, ToggleButton, RadioButton, and RadioGroup Views					
	8	Midterm							
	9	Displaying P and Menus		Gallery and ImageView Views, ImageSwitcher, Gridview, using menus with views, some additional views					
	10) Displaying P and Menus		Gallery and ImageView Views, ImageSwitcher, Gridview, using menus with views, some additional views					
	11	2D and 3D g	raphics	Canvas Drawing, Drawables, Bitmaps,					
	12	2 2D and 3D g	raphics	Canvas Drawing, Drawables, Bitmaps,					
	13	Animation		Transition, Background and surface view animation					
	14	Messaging		Email and SMS					
	15		sed Services	Google Maps					
		16 Final Exam							
Course book and references :	Lectu	re Notes							
Evaluation									
Project: Midterm exam:		30% 30% 40%							
	Final exam:								
Semester Activities		Number	Contribution percentage to course mark %						
Project Midterm Exam		1	30 30						
Final Exam		1	40						
TOTAL	-		100						
	aing loo	rning and avaluat							
Calculating workload (Teach 3 Theory Hour X 15 + 1 Pr studying + 3 hours X 1 Pro	actice H	lour X 15 + 1 hou	ır midterm + 2	2 hour final + 4 hours X 12 0/30 = 5 ECTS credit					

Learning Outcomes (LO)	Programme Outcomes (PO)																
	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО	РО
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
LO1	3																
LO2				3	3	3				3							
LO3				3	3	3				3							
LO4				4	4	4				5							
LO5	4			4	4	4				5							
LO6	4			4	4	4				5							
L07	3			5	5	5				5							

Programme and learning outcomes

*Contribution Level:

1 very low 2 low 3 medium 4 high 5 very high

CITT Department Programme Outcomes

1. Having adequate level of knowledge and skills in current/new computing and educational technologies.

2. Having sufficient communication and teaching skills in teaching profession.

3. Being able to teach updated computing technologies efficiently in English.

4. Being able to identify information technology problems through using various analysis and synthesis.

5. Being pragmatic to develop and apply persistent information technology solutions to educational and business problems.

6. Being able to use critical and computational thinking skills to produce alternative solutions at every level of project development life-cycle.

7. Being capable to work in disciplinary and interdisciplinary teamwork.

8. Being sensitive, reactive and responsive to professional, social and ethical issues. Having social and ethical awareness in teaching and in providing solutions to problems.

9. Having adequate level of knowledge and skills in current/new computer hardware, operating systems and computer networks.

10. Adequate level of knowledge and skills in current/new programming languages,

programming paradigms (procedural and object-oriented) and programming environments (visual, console-based programming).

11. Being able to analyse, plan and manage educational software design and project development.

12. Having the capability of evaluating and criticising educational software design and development.

13. Adequate level of knowledge in using and integrating current/new e-learning and distance education systems such as learning management systems (LMS).

14. Having sufficient skills and knowledge in using instructional technology and material design.

15. Having skills to apply and use special teaching approaches, theories, teaching strategies, methods and techniques (such as to those people with disabilities).

16. Using appropriate measurement and evaluation techniques to assess students' learning and development in addition to supporting them with good level of feedback.