NEU, Department of Computer Information Systems

Course Unit Title	Development Mobile Application
Course Unit Code	CIS 460
Type of Course Unit	Elective
Level of Course Unit	Bachelor"s degree
National Credits	3
Number of ECTS Credits Allocated	4 ECTS
Theoretical (hour/week)	2
Practice (hour/week)	-
Laboratory (hour/week)	2
Year of Study	4
Semester when the course unit is delivered	1
Course Coordinator	
Name of Lecturer (s)	Atalay Talaykurt
Name of Assistant (s)	Bora Oktekin
Mode of Delivery	Lecturing
Language of Instruction	English
Prerequisites and co-requisites	CIS 356
Recommended Optional Programme Components	Basic background on algorithms

Objectives of the Course:

- Understand the unique aspects of mobile application design.
- Work in resource sensitive and resolution variant environments.
- Develop applications with location awareness and hardware sensors.
- Understand the use of a mobile device API.
- Develop applications in a client-server environment

Learning Outcomes

When this course has been completed the student should be able to		Assessment.
1	To develop Android programs that can access systems using SQLite. Also to develop Android programs.	3

Assessment Methods: 1. Written Exam, 2. Assignment 3. Project/Report, 4.Presentation, 5 Lab. Work

Course's Contribution to Program

		CL
1	Apply computer technology to address business information system needs.	5
2	Demonstrate a deeper understanding of at least one area of computing, such as programming, networking, technical support or web technology, enabling the student to gain employment in the information systems field.	5
3	Demonstrate critical thinking in understanding, evaluating and applying technology solutions to real life problems.	4
4	Demonstrate familiarity with e-commerce resources, tools, including web programming, publishing, database management tools.	4
5	Articulate ethical and professional standards to the use of computer information systems and computer based data.	3
6	Effectively use personal, interpersonal and communication skills in team work, time management in projects and self-learning.	4

7	Grow professionally through continuing education, research and development, and involvement in professional activities to recognize the need to engage in continuing professional development and lifelong learning.	4
8	Identify, analyze and develop solutions for information systems-related business problems/opportunities.	5
9	Demonstrate knowledge of current information, theories and models, and techniques and practices in all of the major business disciplines including the general areas in information technologies.	5
CL: Contribution Level (1: Very Low, 2: Low, 3: Moderate 4: High, 5:Very High)		

Course Contents

Week	Chapter		Exams
1	1	About Android	
2	2	Installing the SDK	
3	3	Android Stack	
4	4	Creating a project	
5	5	Application context	
6	6	Text controls	
7		Parameters on Intents	
8			**Mid-term**
9	7	Prepare Proposal for Term Project	
10	8	Localization	
11	9	Options menu	
12	10	Alert dialog	
13	11	Custom dialog	
14		Revision	
15			**Final**

Recommended Sources

Textbook: **Professional Mobile Application Development,** Jeff McWherter, Scott Gowell, Wrox; 1 edition, 2012

Supplementary Material (s): Architecting Mobile Solutions for the Enterprise, Dino Esposito, Microsoft Press; 1 edition, 2012

Assessment

Attendance& Assignment	5%	
Midterm Exam (Written)	25%	
Quiz (Written)	25%	
Final Exam (Written)	45%	
Total	100%	

ECTS Allocated Based on the Student Workload

Activities	Number	Duration (hour)	Total Workload(hour
Course duration in class (including the Exam week)	16	4	64
Tutorials	12	2	24
Assignments	10	1	10
Project/Presentation/Report Writing	1	5	5
E-learning Activities	-	-	-
Quizzes	2	1	2

Midterm Examination	2	1	2
Final Examination	1	2	2
Self-Study	16	1	16
Total Workload			125
Total Workload/30 (h)			4.2
ECTS Credit of the Course			4