

Vocational School / Computer Programming
2024 - 2025 Academic Year
ANDROID PROGRAMMING
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ANDROID PROGRAMMING	BPR2114992	Fall Semester	3+0	3	5
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Elective				
Course Coordinator	Lect. Beyza KOYULMUŞ				
Name of Lecturer(s)	Lect. Beyza KOYULMUŞ				
Assistant(s)					
Aim					
Course Content	This course contains; Introduction to Android,Android Studio Project Organization,Activity andActivity Lifecycle,LayoutActivity Layout relation,UI controls-Button-TextView-EditText-RadioButton & CheckBoxActivity - UI Controls ,ListView - RecyclerView,ListView - RecyclerViewActivity data transferActivity Stack relation,FragmentsAndroid Service examples,AsyncTask, Thread,3rd Party moduls for data transaction,RecyclerView and UI Controls Example on data transaction,Shared PreferencesUse of phone preferencesApplication permissions,RepetitionProject work,Project work.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Defines the lifecycle of the application			12, 14, 16, 2, 6, 9	A, E, F, G	
Establishes Layout - Activity Layout relationship			16, 2, 6, 9	A, E, F	
Uses UI components in the application			6, 9	A, E, F	
Pulls data with 3rd party modules			14, 2, 6, 8, 9	A, E, F	
Shared Preferences uses app permissions to use phone features			14, 6, 8, 9	A, E, F	
Data transmission between ListView - RecyclerView activity defines the activity stack relationship			14, 2, 6, 9	A, E, F	
Teaching Methods	12: Problem Solving Method, 14: Self Study Method, 16: Question - Answer Technique, 2: Project Based Learning Model, 6: Experiential Learning, 8: Flipped Classroom Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework, F: Project Task, G: Quiz				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Introduction to Android				
2	Android Studio Project Organization				
3	Activity andActivity Lifecycle				
4	LayoutActivity Layout relation				
5	UI controls-Button-TextView-EditText-RadioButton & CheckBoxActivity - UI Controls				
6	ListView - RecyclerView				
7	ListView - RecyclerViewActivity data transferActivity Stack relation				
8	FragmentsAndroid Service examples				
9	AsyncTask, Thread				
10	3rd Party moduls for data transaction				
11	RecyclerView and UI Controls Example on data transaction				
12	Shared PreferencesUse of phone preferencesApplication permissions				
13	RepetitionProject work				
14	Project work				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
https://developer.android.com/docs/ 1) http://www.vogella.com/tutorials/android.html 2) https://stackoverflow.com