

	20ND 005
Code	COMP 205
Name	Mobile Programming
Hour per week	5(3+2)
	4
EUIS	/
Level/Year	
Semester	Fall
Type Drana guigitag	COMP 101 Art of Computing
Coordinator(a)	Dr. Semet TONVAL
Description	DI. Sallet TONTALI
Description	who have some background on object-oriented programming. The students will learn how to write cross-platform (iOS and Android) mobile applications using Flutter framework in the Android Studio IDE. The course introduces the fundamental components used in mobile programming such as user interface components, routes and navigation, local and remote data storage using databases, and data retrieval from the Web. The course has both lecture and practice sessions. The lecture session covers theoretical concepts whereas the practice sessions give students a hands-on experience on the topics covered
	in the lecture sessions.
Objectives	Students will be aware of requirements for developing applications for
	resource-constrained and mobile devices.
	Students will gain experience on using Android Studio IDE to develop mobile applications.
	Students will learn to develop fully-fledged mobile applications.
Learning Outcomes	By the end of the course, the student will be able to LO1. Identify components of a mobile application LO2. Visualize routes in a mobile application by sketching each screen in the application
	LO3 Use Android Studio IDE to develop mobile applications
	LO4. Analyze functional and non-functional requirements of a mobile application
	LO5. Debug their code to achieve bug-free applications
	LO6 Create fully-fledged mobile applications
Additional Info	looi oreate rany neugea mobile applications
Requirements	
Teaching Methodology	Learners will be provided with as many opportunities of hands-on practice as possible with the aim of striking a balance between learner-centeredness and sufficient guidance. Various forms of interaction (i.e., pair work and group work) will also be encouraged to cater for learners with different learning styles. Additionally, individuals will be expected to produce both in-class writings and homework assignments in addition to the reading tasks, which will encourage them to reflect and think critically. Technology will also be incorporated into the classroom procedures in order to create a better learning environment.
Reading List	"Build Native Mobile Apps with Flutter" https://www.udacity.com/course/build-native-mobile-apps-with-flutter ud905
	"Everything to Know Before You Start"



	<u>https://www.udemy.com/course/pre-google-flutter-and-dart-everything-you-need-to-know/</u>			
	"Learn Flutter – Beginners Course" <u>https://www.udemy.com/course/learn-flutter-beginners-course/</u>			
	"Introduction to Flutter" <u>https://www.udemy.com/course/introduction-to-flutter/</u>			
	"Flutter Tutorial for Beginners – YouTube Video List" <u>https://youtube.com/playlist?list=PL4cUxeGkcC9jLYyp2Aoh6hcWuxFDX6PBJ</u>			
	"Flutter's Official Get Started" https://flutter.dev/docs/get-started/install			
Ethical Rules and Course Policy	 for the AGU Make-up policy, please refer to the website <u>https://goo.gl/HbPM2y</u> section 26. Eating and drinking is permitted unless it offends other students English should always be used to communicate with one anoth during instruction hours. Please, respect the allotted times provided for breaks. Cell phones are allowed but their voices must be turned down. cellphone usage bothers the instructor or the class, the instructor h the final say on the issue. Consequences include but are not limited loss of participation points, extra assignments, and/or being asked leave the classroom. Please, bring the required materials, specifically your lapt computers. 			

ASSESSMENT

Evaluation Criteria		Weight (%)
Assignments		15%
Group Project & Presentation		40%
Midterm		20%
Final		25%
	Total	100%

For a detailed description of grading policy and scale, please refer to the website https://goo.gl/HbPM2y section 28.

COURSE LOAD

Activity	Duration	Quantity	Work Load
	(hour)		(hour)
In class activities	2	14	28
Async Materials (Videos, Readings, etc.)	1	13	13
Lab	2	13	26
Group work for project	40	1	40
Pre-work for Presentation	3	1	3
Pre-work for Midterm	30	1	30
Pre-work for Final	30	1	30
Assignments	2	13	26
		General Sum	196

ECTS: 7 (Work Load/25-30)



WEEKLY SCHEDULE

W	Date	Торіс	Activities/Assignments	Outcomes
1	0ct 4-8	Introduction and Flutter Basics,	Flipped learning, problem	L01, L03,
		Part 1	solving, Assignment 1	_ L06
2	Oct 11-15	Flutter Basics, Part2	Flipped learning, problem	L01.L03.
-	00011110		solving, Assignment 2	L05, L06
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3	Oct 18-22	Widgets, Styling, and Adding	Flipped learning, problem	L01, L02,
		Logic, Part 1	solving, Assignment 3	_ LO3, LO6
4	Oct 25-29	Widgets, Styling, and Adding	Flipped learning, problem	L01. L02.
-	0001012	Logic, Part 2	solving, <i>Project Proposal</i>	LO3, LO6
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5	Nov 1-5	Responsive & Adaptive User	Flipped learning, problem	L02, L03,
		Interfaces and Apps; Widget	solving, Assignment 4	L04, L06
		and Flutter Internals		_
6	Nov 8-12	Navigation & Multiple Screens	Flipped learning, problem	L02, L03.
-		····· -8····· - · · · · · · · · · · · ·	solving, Assignment 5	LO6
7	Nov 15-19	Fall Break	Project Submission #1	-
8	Nov 22-26	State Management	Flinned learning problem	L04 L06
U	100 22 20	State Management	solving. Assignment 6	101,100
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9	Nov 29 – Dec 3	Lecture-Free Week	A mobile application	
			developer will be invited to	
			snare their experience.	_
10	Dec 6-10	Working with User Input &	Flipped learning, problem	L03, L04,
		Forms	solving, <i>Midterm Exam</i>	L06
11	Dec 13-17	From Web to App: Data &	Flipped learning, problem	L03, L04,
		Васкепа	solving, Assignment 7	_ LU6
12	Dec 20-24	Adding User Authentication	Flipped learning, problem	L02. L03.
			solving, Project Submission	LO4, LO6
			#2	_
12	Dec 27 21	Using Nativo Device Features	Elinnad loarning pucklass	102104
13	Dec 27-31	(Camera Mans Location etc.)	solving Assignment 8	LU3, LU4, LO6
		(camera, maps, nocation, etc.)	Solving, Assignment o	
14	Jan 3-7	Firebase SDK and Push	Flipped learning, problem	L03, L04,
		Notifications	solving, Assignment 9	L06
1 -	Ion 10 14	Dunning Nativo Less Retl'	Flinned learning and her	104 106
15	Jan 10-14	Kunning Native Java or Kotlin Code, Publishing Android Apps	rupped learning, problem	LU4, LU6
		Adding Animations	#3	
		0		_
16	Jan 17-26	Final Exam	Project Submission #4	

Prepared by Dr. Samet TONYALI

This syllabus is tentative (it can be altered at the discretion of the instructor)