FAIT		JRSE PROP		UGPC Approval	
	Gradu	Graduate Programs			
FLORIDA	Department Computer a	Computer and Electrical Engineering and CS		SCNS Submittal Confirmed	
ATLANTIC UNIVERSITY (To obtain a course number, contained to be a course of the course				Banner Posted Catalog	
Prefix COF		Type of Course	Course Title		
Number 567	add if appropriate)	Lecture	Mobile App Dev	elopment	
	Code				
Credits (Review Provost Memorandum	n) (Select One Option)	Course Description (Syllabus must be attached; see <u>Guidelines</u>)			
3 Effective Date (TERM & YEAR) Fall 2020	Regular Sat/UnSat	development. Clast techniques, and m will learn a framev	This course provides study and practice of the lifecycle of mobile app development. Class covers architecture, design and engineering issues, techniques, and methodologies for mobile application development. Students will learn a framework for mobile app development and work on a practical project where they can demonstrate their newly acquired skills.		
Prerequisites A college-level pro		Corequisites		Registration Controls (Major, College, Level)	
				Graduate and Senior students.	
	requisites and Registration				
Minimum qualifications needed to teach		List textbook information in syllabus or here			
course: Member of the FAU graduate faculty and has a terminal degree in the subject area (or a closely related field.)		Beginning Flutter: A Hands On Guide to App Development, Marco L. Napoli; ISBN-13: 978-1119550822 (Wrox, 2019) Flutter in Action, Eric Windmill; ISBN-13: 978- 1617296147 (Manning 2020)			
Faculty Contact/Email/Phone Oge Marques/ omarques@fau.edu/561-297-3857		List/Attach con NA	ıments from dej	partments affected by new course	

Approved by Department Chair	Date 2/24/2020
College Curriculum Chair Ramesh Teegavarapu	2/27/2020
College Dean Mihaela Cardei	2/27/2020
UCRC Chair Paul R. Poluso	03/27/2020
Paul R. Peluso	03/27/2020
Digitally signed by member	8ED423C9-A9FA-4DA0-B089- 334-43D3-B364-BB8C8A5BEE19 4'00-
UFS President	
Provost	

Email this form and syllabus to UGPC@fau.edu one week before the UGPC meeting.

Mobile App Development -	3 credit hours			
2. Course prerequisites, cor	requisites, and where the course	fits in the program of study		
Prerequisites: A college-leve	l programming course.			
3. Course logistics				
Term: Fall 2020				
Class dates and times: TBA				
Class location: TBA				
4. Instructor contact inform	nation			
Instructor's name	Dr. Oge Marques			
Office address	EE 441 (Engineering East (96) building)			
Office Hours	TBD			
Contact telephone number	561-297-3857			
Email address	omarques@fau.edu			
5. TA contact information				
TA's name	N/A			
Office address				
Office Hours				
Contact telephone number				
Email address				
6. Course description				
	nd practice of the lifecycle of a mo	bile and development. Class covers		
This course provides study a		bbile app development. Class covers		
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This course provides study a architecture, design and eng development. Students will project where they can demo 7. Course objectives/studer	sineering issues, techniques, and n learn a framework for mobile app onstrate their newly acquired skill int learning outcomes/program out By the end of the course, stud 1. Demonstrate underst aspects of mobile app 2. Be competent with th mobile applications. 3. Demonstrate underst mobile applications. 4. Be competent with d applications using on	nethodologies for mobile application development and work on a practical s. utcomes ents should be able to: canding of the most important technical o development. he characterization and architecture of canding enterprise scale requirements o esigning and developing mobile e application development framework.		

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Project (Final app)	50%	
2 Online quizzes	30%	
(each quiz is 15%)		
2 Hands-on Assignments	20%	
(each assignment is 10%)		
9. Course grading scale		
Grading Scale:		
-	9: "B+", 83-86: "B", 8	p-82 : "B-", 77-79: "C+", 73-76: "C", 70-72: "C-",
67-69: "D+", 63-66: "D", 60-62: "D-"	", 59 and below: "F."	
10. Policy on makeup tests, late w	ork, and incomplete	5
	ing in the exam. Mak	a medical or otherwise serious emergency that eup exam should be administered and proctored oved arrangements.
	p to a maximum of 3	of the maximum possible grade for each day days late (i.e., 30% penalty), beyond which
<i>Incomplete grades</i> are given only if t situation <u>and</u> the student is current		of medical or otherwise serious emergency

11. Special course requirements

N/A

12. Classroom etiquette policy

Students are required to comply with all requirements specified in the student code of conduct and not in any way disrupt the class or prevent other students from benefiting from the class. Students are to speak and behave respectfully to each other and to all FAU faculty and staff.

13. Attendance policy statement

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance.

Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the

opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

14. Disability policy statement

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at <u>www.fau.edu/sas/</u>.

15. Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to http://www.fau.edu/counseling/

16. Code of Academic Integrity policy statement

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001. If your college has particular policies relating to cheating and plagiarism, state so here or provide a link to the full policy—but be sure the college policy does not conflict with the University Regulation.

17. Required texts/reading

Required Books:

- 1. Beginning Flutter: A Hands On Guide to App Development Author: Marco L. Napoli; ISBN-13: 978-1119550822 (Wrox, 2019)
- 2. Flutter in Action Author: Eric Windmill; ISBN-13: 978- 1617296147 (Manning, 2020)

18. Supplementary/recommended readings

Additional reading materials will be provided during the semester.

Neek	Plan	Assignments due
1	Introduction to course contents, goals, and methodology	
	Mobile app development: the basics	
2	Getting started with Flutter and Dart	
3	Flutter and Dart (cont'd)	
4	Flutter and Dart (cont'd)	Online quiz 1
5	Flutter and Dart (cont'd)	Hands-on
		Assignment 1
6	Flutter UI	
7	Flutter UI (cont'd)	
8	Flutter Routing	Hands-on
		Assignment 2
9	Flutter Routing (cont'd)	
10	Flutter State Management	
11	Flutter State Management (cont'd)	
12	Async Dart and Flutter	
13	Working with Data: HTTP, Firestore, JSON	
14	Working with Data: HTTP, Firestore, JSON (cont'd)	
15	Testing Flutter Apps	Online quiz 2
16	Final Project Discussions	
	Mobile App Development market: outlook and predictions	
17	Final Project Presentations including Prototype Demo	Final project, report,
		and PPT

GRADUATE COLLEGE