



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **Computer Science & Information Technology**

Department : **Computer Science**



Year : 2022-2023

Semester : First

SYLLABUS: < **MOBILE APPLICATIONS** >

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COURSE OVERVIEW

THIS COURSE INTRODUCES STUDENTS TO PROGRAMMING TECHNOLOGIES, DESIGN AND DEVELOPMENT RELATED TO MOBILE APPLICATIONS. TOPICS INCLUDE ACCESSING DEVICE CAPABILITIES, INDUSTRY STANDARDS, OPERATING SYSTEMS, AND PROGRAMMING FOR MOBILE APPLICATIONS USING FLUTTER. UPON COMPLETION, STUDENTS SHOULD BE ABLE TO CREATE BASIC APPLICATIONS FOR MOBILE DEVICES.

GOALS AND OBJECTIVES

- Build beautiful, fast, and native-quality apps with Flutter
- Become a fully-fledged Flutter developer
- Build iOS and Android apps with just one codebase
- Build iOS and Android apps using just one programming language (Dart)
- Understand all the fundamental concepts of Flutter development
- Become proficient in one of the fastest-growing technologies

TEXTBOOK AND READINGS

[1] M.L.NAPOLI, " Beginning Flutter: A Hands on Guide to App Development", [1st edition], 2019

[2] Alessandro Biessek, "Flutter for Beginners", 2019

COURSE ASSESSMENTS

The course grade (**100** points) will be based on the following elements:

	Points
Exams	65
Reading Checks	5
Participation	10
Attendance	5
Assignments	15

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Introduction to mobile application		
2		Mobile Framework		
3		Mobile Programming- Android Studio		
4		Introduction to Flutter		
				Assignment 1
5		Understanding Widget Lifecycle Events		
6		Understanding the Widget Tree and the Element Tree		
7		CREATING A HELLO WORLD APP(simple application)		
8				Assignment 2
9				
10		LEARNING DART BASICS: Running the main() Entry Point, Declaring Variables, Using Flow Statements		
11		BUILDING LAYOUTS		
12				Assignment 3
13		USING COMMON WIDGETS		
14		ADDING ANIMATION TO AN APP		
15	Mid Exam			