

Programme Name:

BICT

Course Code:

IT8108

Grading Scheme:

Achievement only

Course Coordinator:

Dr. Philippe Pringuet

Course Title:

Mobile Programming

Academic Semester:

Semester 1, 2019-2020

Assessment Item	Component	Subcomponent		Weighting %	Marked out of	Must Pass (Y/N)	Due Date for assessment item (Day month year)	Resit Available? (Y/N)	Pass Mark	Group / Individual	LOs assessed		
	Assessment Item Name (max 30 characters) + Description	Assessment Item	Assessment Item Name (max 30 characters)										
A1	Project Design Document	Total component Weight ¹ :		30%	100	N	10 November 2019	N	60	I	1,2		
	Students will describe their design process and justify the decisions they have made (including list of the planned features, diagrams of the application, mockups of the application).	S1											
		S2											
		S3											
A2	iOS App Implementation	Total component Weight ¹ :		35%	100	N	7 January 2020	N		60	G	1,2	
	Student must defend their implementation (form assessment 2). They should be able to present their final app to a technical audience, provide a critical analysis of design/implementation, and make code modifications and amendments based on a specific script.	S1											
		S2											
		S3											
A3	Project Defense	Total component Weight ¹ :		35%	100	N	12 January 2020	N			60	I	1,2
	Student must defend their implementation (form assessment 2). They should be able to present their final app to a technical audience, provide a critical analysis of design/implementation, and make code modifications and amendments based on a specific script.	S1											
		S2											
		S3											
A4		Total component Weight ¹ :											
		S1											
		S2											
		S3											
Total Weighting % of all components must equal 100%:				100%									

IMPORTANT NOTES

1 Please refer to the related Academic Policies

2 Total Component Weighting must be equal to a sum of all subcomponents.

3 If Component has Subcomponents the **Due Date** and **Resit** rules MUST be left blank in the main component row.

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Note: in each cell, to go to next line type SHIFT+ALT+ENTER. All rows can be extended to show all content

Course Details:

Instructional
method

Provide a brief description of instructional approaches that will be used during the course (e.g., lectures, seminars, laboratory or clinical activities, group projects). You may also choose to include additional information relevant to this course, such as attendance requirements ...

The course is centered around a project given at the start of the semester by a real client. During the first half of the semester, students complete tutorial to help them develop iOS development skills using the SWIFT Programming language. It is interspersed with lectures about design patterns (MVC) and UI/UX concepts. They are also expected to produce a Project Design Document which describes what their App will look like and what main features they hope to develop.

The second part of the semester is fully focused on the implementation of the App. Progress is monitored using a web app called Trello which allows the instructor to also evaluate team work and individual contribution to the app. It is expected that students will source and complete other tutorials as required for their project.

Tutor Info

Please list below all tutors involved in this course and include their phone number (mobile or office), their office number and their office hours

Name:

Dr. Philippe
Pringuet

Name:

Name:

Name:

Name:

Phone:

33945757

Phone:

Phone:

Phone:

Phone:

Office:

26.103

Office:

Office:

Office:

Office:

Office

Mondays 12-2pm

Office

Office

Office

Office

Hours:

Tuesdays 10am-
11am

Hours

Hours

Hours

Hours

Classroom
etiquette

Please provide a description of the classroom etiquette expected in this course. You may also mention here your intended use of technologies such as polling, videoconferencing, and Moodle.

statement	In keeping with the professional culture of teaching and learning, the School of ICT believes that our teaching and learning spaces should model such professional environments. As a community, we are committed to creating authentic opportunities where understanding of teaching and learning is co-constructed between instructors and students. In order for us to create these learning environments, we are expected to demonstrate awareness of, respect for and commitment to the behaviours and actions of professionals.
Required and Optional course material	<p><i>Provide specific information about required readings , including title, author(s), edition number and availability.</i></p> <p>Any other required materials should be listed.</p> <p>There is no required reading as all the material is available on Moodle and online. The Moodle course page is divided into Assessments, Tutorials, and Optional Resources. As described above, students are expected to keep their Implementation Board updated on Trello in order for the instructor to monitor their progress</p>
Assessment methodology	<p><i>A description of the means of evaluation/assessment to be used in the course: The purpose of evaluation is to provide feedback to students on their learning, as well as to permit the instructor to assign a fair grade at the end of the course. Providing explicit information about assignments and grading procedures will clarify expectations and allay student anxiety, while supporting students in pacing their studies, gauging their progress, and achieving learning outcomes.</i></p> <p>Programming skills in SWIFT are assessed during the mid-semester exam (practical exam where students are required to develop a simple well-defined app). The project assesses students ability to work as a team in order to analyse a client brief, design and implement a mobile app for iOS. The project defense consists of a project demo to the client where students have to describe and justify their choices and a practical exam (where students have to upgrade their project) in order to test whether they understand all elements of the app implementation</p>
Assessment/Assignment Feedback	<p><i>Please describe/detail how feedback will be given to students for each assessment.</i></p> <p>Feedback for all assessments will be provided in the form of a detailed marking sheet with comments uploaded on Moodle. Students may request a meeting with their tutor during office hours to discuss the detailed feedback.</p>
Critical Thinking and Critical Reflection	<p><i>Please describe below the activities completed with students to develop their critical thinking.</i></p> <p><i>For each, please indicate whether this is assessed and the method of assessment.</i></p> <p>The project develops the student critical thinking as they are expected to evaluate different solutions, justify their choices and implement the most appropriate solution. Question 5 of the mid-semester exam and part 2 of the project defense assess the students critical reflection of their work.</p>

Employability Skills

Please indicate below which Employability Skills are Developed and Assessed in the course (Yes/No)
If any of them are, please describe in details in the box below.

<u>E.S. Developed</u>	<u>E.S. Assessed</u>	<u>Details</u>
Communication	Yes	Communication is an essential part of the course. Students are assessed on their ability to write technical documentation and their ability to deal with a client (client meeting + project demo for client)
Teamwork	Yes	There is a strong emphasis on teamwork in this course. Students are expected to update the tutor regularly on Trello about the progress of the project. This is discussed in class with the group. The project defense also includes one section about the critical analysis of the management of the project AND on their own learning
Problem Solving	Yes	The project is given to the students as a client brief that they have to analyse and solve. Similarly, section 3 of each tutorial is a problem to be solved
Planning & Organization	Yes	No
Learning	No	Yes
Initiative & Enterprise	No	No
Self-Management	No	No
Technology	Yes	Yes

Legal, Ethical, Social, and Professional Issues (LESPI)

Please indicate below which LESPI items are covered in the course.
If any of them are ticked, please describe in details in the box below.

Legal Issues:	No	Legal issues are not addressed in this course
Ethical Issues:	No	Ethical issues are not addressed in this course but students are expected to reference any library or code that is not their own

Social Issues:	No	Social issues are not addressed in this course
Professional Issues:	Yes	There is a strong emphasis on teamwork in this course. Students are expected to update the tutor regularly on Trello about the progress of the project. This is discussed in class with the group. The project defense also includes one section about the critical analysis of the management of the project AND on their own learning

POLICIES: Please refer to the official academic policies on Moodle for details

**ACADEMIC
INTEGRITY /
PLAGIARISM
STATEMENT**

In addition to the Bahrain Polytechnic Policy, the School of ICT follows the following procedure when dealing with suspected plagiarism:

- **Suspected case of plagiarism will be submitted to programme manager along with any collected evidence.**
- **Any student involved will be interviewed**
- **Programme manager will assess each case individually and evaluate the most appropriate penalty.**
- **Penalties may include a zero mark for a section of the assignment, a zero mark for the assignment, a Fail grade for the course or be subjected to additional disciplinary issues. Please note that penalties will be increased in cases of repeating offence.**

**LATENESS
POLICY in
SCHOOL OF ICT**

In addition to the Bahrain Polytechnic Policy, the School of ICT follows the following procedure when dealing with late submission:

- **Assessments submitted late will result in the maximum grade the student can achieve to be 60% in that assessment unless decided otherwise by the Head of School or delegate.**
- **The cut off time for submitting an assessment will be 3 calendar days after the assessment is due. A student submitting after 3 calendar days will get 0% for this assessment**
- **Extensions are not available for controlled assessments or other forms of assessment where scheduling concerns make it impracticable (e.g. workplace assessments).**
- **On application, course coordinators may approve extensions to deadlines for other forms of assessment, (such as projects and assignments,) up to a maximum of 2 working days. Applications must be made before the stated deadline.**

EXAM POLICY

Rescheduling: Students requesting the rescheduling of an examination(s) due to a religious, business related or scheduling conflict must submit the course coordinator by email together with supporting documentation at least two (2) weeks prior to the date of the scheduled examination(s).

Missing Exams: Students who miss an examination(s) for valid reasons must email the course coordinator (and CC the Head of School) with supporting documentation (e.g. medical report, relative's death certificate, etc.) within two (2) business days from the date of the missed examination(s). Please note that medical certificates are not accepted. If approved, the student will be allowed to retake the assessment at another time. If a mid semester exam is missed they would be allowed to retake the exam at the end of the semester. If a student misses the final exam at the end of the semester then the students grade would be put on hold and they would retake the assessment the following semester at a time that is convenient for the course coordinator.

Students should not make other commitments during the final exam period. Vacation plans do not constitute valid grounds for the deferral or the rescheduling of examinations. Examination schedules are posted online approximately 6 weeks before the examination period begins

Identification: Students are required to present their Bahrain Polytechnic photo I.D. card for entrance to their examination.

EMAIL POLICY

E-mail is one of the official means of communication between Bahrain Polytechnic and its students. As with all official communications, it is the student's responsibility to ensure that time-critical e-mail is assessed, read, and acted upon in a timely fashion. If a student chooses to forward Bahrain Polytechnic e-mail to another e-mail mailbox, it is that student's responsibility to ensure that the alternate account is viable. Please note that to protect the privacy of students, Bahrain Polytechnic will only reply to students on their Bahrain Polytechnic e-mail account.

<end of course guide>

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Week		Session 1	Session 2	Homework	Assessments	Moderation	Notes				
1	15-Sep-19	Introduction Session + iOS Dev. Registration Start Unit 1: Swift Basics	Unit 1: Swift Basics Unit 1 tutorials	Complete Unit 1 Labs							
2	22-Sep-19	Unit 2: Intermediate SWIFT concepts (String, Funcntions, Structure) + Lab 2A playground	Unit 2: Intermediate SWIFT concepts (Classes Inheritance, Collections, Loops) + Lab 2B: Arrays, Classes and Polymosphism	Complete Lab2A and Lab 2B		Project Pre-Mod					
3	29-Sep-19	UNIT3 - Building a User Interface (UIKit, displaying data, Action Controls) + Tutorial 3 Chess	Project Brief Session + grp forming Video and Lab on GitHub	Complete Unit 3 Tutorials Prepare Questions for Project							
4	6-Oct-19	UNIT3 - Building a User Interface (Auto Layout) Lab 3A: Calculator	Unit 4 (part 1): Design Tutorial 7: App UI Design	Prepare Project MockUps							
5	13-Oct-19	Lab 3B: Guided Project: Apple Pie	Unit 4 (part 1): UX Tutorial 8: App UX Design	Complete Unit 5 Tutorials Prepare Project UX							
6	20-Oct-19	Unit 5: SWIFT Advanced (Optionals, Casting) + Lab 5.1 and 5.2	Unit 5: SWIFT Advanced (Guard, Scope, Enumerations) + Lab 5.3, 5.4 and 5.5	Complete Lab 5 + Design Doc + Update Trello Board							
7	27-Oct-19	UNIT6 - Navigation and Workflows + Lab 6A	Lab 6B: Guided Project - Personality Quiz	Finish Lab 6B: Guided Project - Personality Quiz							
8	3-Nov-19	UNIT7 - Lesson 1: Protocols + Lab 7A: Protocols	UNIT7 - Lesson 2: App Cycle, Lesson 3: MVC + Lab 7A: App Events Count + Lesson 4: ScrollViews	Complete Unit 7 Labs							
Mid-sem	#####	MID-SEMESTER BREAK			Design Document (30%)						
9	#####	Assessment Week									
10	#####	UNIT8 - Tables and Persistence: Lesson 1: TableViews + Lab 8A: MealTracker	UNIT8 - Tables and Persistence: Lesson 2: TableViews + Lab 8A: FavoriteBooks	Read pages 596 to 645 (Emoji Dictionary Project)		Design Document PostMod					
11	1-Dec-19	UNIT8 - Tables and Persistence: Lesson 3: + Lab 8B: RememberEmojis	UNIT8 - Tables and Persistence: Lesson 4: + Lab 8B: HomeFurnitureSharing	Read pages 650 to 681 (persistence and system controllers)							
12	8-Dec-19	UNIT8 - Tables and Persistence: Lesson 5: Complex Input Screens + Lab 8C: HotelForm	Lab 8D: Guided Project - TODO List	Read pages 686 to 721 (Date and DatePicker)							
13	15-Dec-19	Lab 8D: Guided Project - TODO List	National Day	Complete Unit 8 Labs							
Break	22-Dec-19	BREAK									
14	29-Dec-19	Project Implementation	Project Implementation	Project Implementation		Project Defense PreMod					
15	5-Jan-20	Project Implementation	Project Demo to Client		Implementation (35%)						
16	12-Jan-20	Assessment Week			Project Defense (35%)						
Admin	19-Jan-20	Marking Week				Implementation PostMod					
	26-Jan-20	Exam Board Meetings				Project Defense PostMod					