

## **XXXX0000**

### **iOS Foundation Program**

---

<b>SCU</b>	8 credits
<b>Contact Hours</b>	40 hours per week for 4 weeks
<b>Pre-requisite(s)</b>	None

## **Course Information**

### **2018 – 2019**

# Syllabus

## 1. Course Description

The iOS Foundation course aims to inspire students to become world-class developers by introducing learners to application development on the iOS platform. This 4-week program currently takes place on BINUS UNIVERSITY's Alam Sutera campus. The foundation is open to BINUS active students from any course and any semester.

Classes are led by Apple-trained instructors and focus on fundamentals of coding with Swift – Apple's powerful and intuitive programming language created to build apps for iOS. Students will learn a wide range of topics from technical-oriented OOP, Swift syntax, UI kit, to other skill sets including CBL, UI/UX, value proposition and rapid prototyping. Whoever wants to join the academy can start building their skills by attending the foundation.

## 2. Learning Outcomes

The learning outcomes indicates what students are expected to be able to do by the end of the course, which may cover knowledge, technical and soft skills pertaining to the course given.

Upon successful completion of this course, students are expected to be able to:

1. Know his/herself better, in particular, of his/her performance at a learning task; take part in collaborative work
2. Do coding with Swift syntax, technical-oriented OOP, UI kit, CBL, UI/UX
3. Discover value proposition of an application or product (prototype)
4. Describe ideas through presentation and written report

## 3. Course Structure

Activities	Timeline	Venue
Orientation	One day before first day program	BINUS UNIVERSITY, Alam Sutera Campus
Foundation Program	40 hours a week, 5 days a week, 4 weeks	BINUS UNIVERSITY, Alam Sutera Campus
Presentation and Feedback Session	One day after the end of the program	BINUS UNIVERSITY, Alam Sutera Campus

## 4. Course Requirements

The student should:

- a. Good academic standing
- b. Good English proficiency
- c. Successfully passed the Entry Assessment (General Knowledge and Logic Test) required by Apple Developer team

Version	:	0	Revision Date	:	-
Revision	:	0	Effective From	:	September 2019

## 5. Text and Other Resources

- Intro to App Development with Swift, iBook, Everyone Can Code, Apple Education, Apple Inc.
- App Development with Swift, iBook, Everyone Can Code, Apple Education, Apple Inc.

## 6. Course Outline

- Introduction to Lumina and Collaboration
- CBL Cycle Exercise
- CBL with Passion
- Design: Color/Font/Typography/HG
- CBL: Guiding Activities (research)
- Synthesis Presentation
- Competitor Analysis
- Design: UX Introduction
- Tech: Basic SWIFT
- Tech: UIKit
- Threading, Dispatch, JSON
- Core data and MapKit

## 7. Assessment

### 7.1. Assessment Summary

The assessment for the defined course learning outcomes will be conducted throughout the course as detailed in Section 6.4. The assessment summary and alignment between the assessment tasks and the course objectives is defined in the table below. A list of assessment rubrics used will also be provided, indicating the assessment standards and criteria that a student can follow to succeed in this course.

No.	Components	Percentage	Learning Outcomes
1.	Prototype	30%	LO 1, 4
2.	Report	30%	LO 2, 3
3.	Presentation	40%	LO 4
<b>Total</b>		<b>100%</b>	

### 7.2. Course Policies

To optimise learning experience, students are expected to:

- Attend every activity in point 3
- Attend every F2F session and collaborative work
- Maintain a very high standard of personal appearance
- Follow Apple Developer Academy regulations

Any misconduct might be subject to report to home institution and the termination of the program.

### 7.3. Submission and Collection of Assessment

In regards to the given assignments, students are expected to submit the assignment by the given due date since a late submission will not be accepted unless the students can present a legitimate document to the lecturer. Please refer to BINUS regulation for a legitimate

Version	: 0	Revision Date	: -
Revision	: 0	Effective From	: September 2019

document for absenteeism to define a legitimate document for the assignment submissions.

## 7.4. Assessment Description

### 7.4.1. Assessment 1: Prototype (under development)

### 7.4.2. Assessment 2: Report

This is an individual written report. Students should submit one copy of report to BINUS UNIVERSITY. This report should be submitted at the latest two weeks after the program finish.

By the end of the program, student writes a report (10-15 pages, Font-size: 11 pts, Times New Roman, 1.5 spacing) to describe his/her experience. Please refer to the scoring rubric to see how the report will be assessed.

The expected outline of the report:

#### I. Cover

#### II. Executive Summary

One page of concise summary to cover the main points of the report.

#### III. Assignment or Project Report

This is a detail description of the assignments or projects given during the program.

- Cultural Challenges:** Description of Indonesian culture at work and the challenges faced during the project. If student worked in a team, what major role s/he played in the team and what challenges s/he faced (cultural differences, language, skills).
- Problem:** Description of what issues are interesting for the student to explore through the program.
- Product Development:** Description of the process in developing product.
- Prototype:** Description of the prototype, including value proposition of the product.

#### IV. Self-Assessment

- Technical skills (language, skill related to your academic expertise, or related to the project you were involved)
- Soft skills (teamwork, culture, communication, problem solving)

#### V. Conclusion and Recommendation

One page conclusion and suggestion to perform better in the future.

#### VI. Appendices (if any)

BINUS report is assessed based on the following components:

No.	Components	%	Score*	Total (% x Score)
1	Executive Summary	10		
2	Assignment or Project Report	30		
3	Self-Assessment	30		
4	Conclusion and Recommendation	30		

Version	: 0	Revision Date	: -
Revision	: 0	Effective From	: September 2019

	<b>TOTAL</b>	<b>100%</b>		
--	--------------	-------------	--	--

\* Score: 0 – 100

#### 7.4.3. Assessment 3: Presentation

This is an individual assignment. Students should present their prototype or product in front of a panel and an audience.

Presentation is assessed based on the following components:

No.	Components	%	Score*	Total (% x Score)
1	Presentation skills	25		
2	Communication skills	25		
3	Clarity of ideas	50		
	<b>TOTAL</b>	<b>100%</b>		

\* Score: 0 – 100

#### 7.4.4. The Grade Band Criteria

The Grade Band Criteria are defined as follows.

Grade	Label	Weight	Score	Grade Description
A	Excellent	4	90 – 100	Student has completed all requirements of the course work outstandingly and exceptional additional work at the highest standard. Student has demonstrated an outstanding level of knowledge/ understanding/ competencies/skills as specified in the learning outcomes and achieved these learning outcomes at the highest level.
A-	Exemplary	3.67	85 – 89	Student has completed all requirements of the course work and outstanding additional work at a highly advanced standard. Student has demonstrated an exemplary level of knowledge/ understanding/ competencies/skills as specified in the learning outcomes and achieved these learning outcomes outstandingly.
B+	Very Good	3.33	80 – 84	Student has completed all requirements of the course work and significant additional work to a high quality. Student has demonstrated a significant level of knowledge/ understanding/ competencies/skills as specified in the learning outcomes and achieved these learning outcomes well.
B	Good	3.00	75 – 79	Student has completed all requirements of the course work and considerable additional work at a good standard. Student has demonstrated a good level of knowledge/ understanding/ competencies/skills as specified in the learning outcomes and achieved these learning outcomes well.
B-	Above Average	2.50	70 – 74	Student has completed all requirements of the course work and considerable additional work at an above-average standard. Student has demonstrated a sufficient level of knowledge/ understanding/ competencies/skills as specified in the learning outcomes.
C	Average	2.00	65 – 69	Student has completed all requirements of the course work and demonstrated a satisfactory level of knowledge/ understanding/ competencies/skills as specified in the

Version	: 0	Revision Date	: -
Revision	: 0	Effective From	: September 2019

				learning outcomes.
D	Low Pass	1.00	50 – 64	Student has completed the minimum requirements of the course work and demonstrated a minimum level of knowledge/ understanding/ competencies/skills required to meet the specified learning outcomes.
E/F	Fail	0	0 – 49	Student is unable to demonstrate the completion of the minimum requirements of the course work and the attainment of a minimum level of knowledge/ understanding/competencies/skills required to meet the specified learning outcomes.

Students are required to be familiar with the BINUS UNIVERSITY Code of Conduct (please refer to [Tata Tertib Kehidupan Kampus](#)), and to abide by its terms and conditions.

### 7.5. Academic Misconduct

Please refer to the Code of Conduct for definitions and penalties for Academic Misconduct, plagiarism, collusion, and other specific acts of academic dishonesty.

Academic honesty is crucial to a student's credibility and self-esteem, and ultimately reflects the values and morals of the University as a whole. A student may work together with one or a group of students discussing assignment content, identifying relevant references, and debating issues relevant to the subject. Academic investigation is not limited to the views and opinions of one individual, but is built by forming opinion based on past and present work in the field. It is legitimate and appropriate to synthesize the work of others, provided that such work is clearly and accurately referenced.

Plagiarism occurs when the work (including such things as text, figures, ideas, or conceptual structure, whether verbatim or not) created by another person or persons is used and presented as one's own creation, unless the source of each quotation or piece of borrowed material is acknowledged with an appropriate citation.

Encouraging or assisting another person to commit plagiarism is a form of improper collusion and may attract the same penalties.

To prevent Academic Misconduct occurring, students are expected to familiarize themselves with the University policy, the Subject Outline statements, and specific assignment guidelines. Students should also seek advice from Subject Leaders on acceptable academic conduct.

#### 7.5.1. Guidelines to Avoid Plagiarism

Whenever you copy more than a few words from any source, you must acknowledge that source by putting the quote in quotation marks and providing the name of the author. Full details must be provided in your bibliography.

Version : 0  
Revision : 0

Revision Date : -  
Effective From : September 2019

If you copy a diagram, statistical table, map, etc., you must acknowledge the source. The recommended way is to show this under the diagram. If you quote any statistics in your text, the source should be acknowledged. Again full details must be provided in your bibliography.

Whenever you use the ideas of any other author you should acknowledge those, using the APA (American Psychological Association) style of referencing.

Students are encouraged to co-operate, but collusion is a form of cheating. Students may use any sources (acknowledged of course) other than the assignments of fellow students. Unless your Subject Leader informs you otherwise, the following guideline should be used:

**Students may work together in obtaining references, discussing the content of the references and discussing the assignment, but when they write, they must write alone.**

#### 7.5.2. Referencing for Written Work (where applicable)

Referencing is necessary to acknowledge others' ideas, avoid plagiarism, and allow readers to access those others' ideas. Referencing should:

- Acknowledge others' ideas;
- Allow readers to find the source;
- Be consistent in format and
- Acknowledge the source of the referencing format.

To attain these qualities, the school recommends use of either the Harvard or American Psychological Association style of referencing, both of which use the author/date.

#### 7.5.3. Referencing Standards

APA style referencing.

#### 7.5.4. Disclaimer

Every effort will be made to ensure that the teaching, learning and assessment activities of this course are given as described. Any unpublished changes for course improvement will be notified and discussed in class. However, circumstances may occasionally make this possible, and BINUS UNIVERSITY therefore reserves the right to add, alter or withdraw particular information contained in this syllabus.

#### Approval

Reviewed by,	Checked by,
<u>Yanti, M.M.</u>	<u>Karen Imam, M. I. B.</u>

Version	:	0	Revision Date	:	-
Revision	:	0	Effective From	:	September 2019

Manager of Academic Resource Center	Director of BINUS Global
-------------------------------------	--------------------------

<p><b>Approved by,</b></p>  <p><b><u>Yanti, M.M.</u></b> Manager of Academic Resource Center</p>	<p><b>Endorsed by,</b></p>  <p><b><u>Dr. Engkos Achmad Kuncoro, S.E., M.M.</u></b> Vice Rector Academic Development</p>
--	---