Proposed Academic Year	2021/ 2022	**Last Reviewed Academic Year**	2020/2021
Course Code	INTE105	**Course Title**	Introduction computer programming
Credit hours	3	**Level of study**	Undergraduate
College / Centre	COBA	**Department**	MIFS
Co-requisites	None	**Pre-requisites**	

1. COURSE OUTLINE

[This course introduces computer programming fundamentals. Students will be taught how computer programs works, the logic and the principles of problem solving. Students will learn about variables, array, loops and other data manipulation techniques (introductory level).
Python programming language will be used to deliver this course learning objectives]

2. AIMS

[This course aims to develop student capacity in terms of understanding the fundamentals of computer programming.

3. LEARNING OUTCOMES, TEACHING, LEARNING ,ASSESSMENT METHODS , and Graduate Attributes Mapping

Learning Outcomes ***(Definitive)*** Upon successful completion of this course, students will be able to**:**	**Teaching and Learning methods** ***(Indicative)***	**Assessment** ***(Indicative)***	**Graduate Attributes Mapping**
1. Be able to declare and manipulate variables	Lectures and labs	In-class tests, quizzes	Knowledge of a discipline.
2. Be able to understand the iteration and write Pseudo codes	Lectures and labs	In-class tests, quizzes	Knowledge of a discipline.
3. Be able to solve basic math problems using python	Lectures and labs	In-class tests, quizzes	Knowledge of a discipline.
4. Be able use simple conditional statements	Lectures and labs	In-class tests, quizzes	Knowledge of a discipline.
5. Be able to declare and manipulate arrays	Lectures and labs	In-class tests, quizzes	Knowledge of a discipline.

4. ASSESSMENT WEIGHTING

Assessment	**Percentage of final mark (%)**
First exam	30%
Course work / project	30%
Final exam	30%

Participation	10%
TOTAL	**100%**

5. ACHIEVING A PASS

Students will achieve 3 credit hours for this course by achieving a minimum overall score of 50%

NB *Ensure that ALL learning outcomes are taken into account

6. COURSE CONTENT (Indicative)

LECTURE TOPIC	TIME (HOURS)
Introduction to computer programming	9
Data types and expression	9
Variables and arrays declaration and manipulation	9
Iteration and conditional statements	9
Objects and classes	9

TOTAL HOURS	**45**
Plus **RECOMMENDED INDEPENDENT STUDY HOURS**	
TOTAL COURSE HOURS	**45**

7. RECOMMENDED READING

Core text/s:

Maurice J. Thompson (2018) Python: - The Bible- 3 Manuscripts in 1 book: -Python Programming For Beginners -Python Programming For Intermediates -Python Programming for Advanced
ISBN-13: 978-1980953906

Zelle, J. M. (2016). *Python programming: an introduction to computer science*.3rd edition. Franklin, Beedle & Associates, Inc.
ISBN-13: 978-1590282755.

Reed, D. M., & Zelle, J. M. (2009). *Data structures and algorithms using Python and C++*. Franklin, Beedle & Associates.
ISBN-13: 978-1590282335

Library + online resources:
ASU library, ASU online resources (ProQuest and e-library) and
Sultan Qaboos University Library