

# MIS 211

## Business Computer Programming

### Course Syllabus

#### 1st Semester 1445

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<b>Instructor:</b>	Fatimah Alotaibi
<b>Office</b>	2 <sup>nd</sup> floor, No 145
<b>Office Hours</b>	(9-9:50,12-12:50) on Sunday, Tuesday, and Thursday
<b>Email</b>	<a href="mailto:alofatimah@ksu.edu.sa">alofatimah@ksu.edu.sa</a>
<b>KSU credits</b>	3
<b>Lecture timetable</b>	3 lectures a week (Refer to your schedule for time and location)
<b>Lab timetable</b>	2 hours practical session in the lab (Refer to your schedule)
<b>Lab demonstrator</b>	Refer to your schedule (Najla Bahmaid)

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#### Course Prerequisites

Management Information Systems (201 MIS)

#### Course Main Objective:

The main purpose of this course is to training students the basic programing logic and master the basic python syntax, an IDE called PyCharm will also be introduced. Topics scope: Introduction to Computers and Programming, Introduction of PyCharm, Input and Output, Decision Structures and Boolean Logic, Repetition Structures, Functions, Lists and Strings, Files and Dictionaries, Classes and Object-Oriented Programming, Recursion.

#### Course Learning Outcomes:

- Trace computer programming languages.
- Introduce object-oriented programming (OOP) concepts.
- Appreciate the role of Programming languages in Business Intelligence.
- Implement algorithms and flowcharts for real life problems. Students will be able to write algorithms and draw flowcharts for problems from real life.
- Develop coding for algorithms and flowcharts. Students will be able to code the algorithms into OOP language.
- Carry out responsibilities individually and as a team member in analysis and programming.
- Present programming projects in simple, though technical language both orally and in writing.

#### Text and other reading materials:

The Required text for this course is:

**Tony Gaddis. "Starting Out with Python", 4th Global Edition, Pearson, 2018 . ISBN: 9780134444321**

#### Other library texts and supplements:

Other learning resources (e.g Web sites, video tapes...)

**Electronic Materials:**

Swaroop C. H. "A Byte of Python", Version 4.0, 2016. Free download at:

<https://www.gitbook.com/book/swaroopch/byte-of-python/details>

**Grades:** (The instructor abides by the following grading scale strictly and DOES NOT curve at all.)

Description	Percentage
Quizzes	10
Midterm	25
Assignments	10
Lab work	10
Final Lab	5
Final (Comprehensive) Exam	40
<b>Total</b>	<b>100%</b>

**Course Outline:**

Week	Chapter	Description
Week 1	Introduction, Chapter 1	Introduction to computer and programming
Week 2	Chapter 2	Input, processing, and output
Week 3	Chapter 3	Decision Structures and Boolean Logic
Week 4 ,5	Chapter 4	Repetition structures
Weeks 6	Chapter 5	Functions
Weeks 7	Chapter 6	Files and Exceptions
Week 8	Chapter 7	List and Tuples
Week 9	Chapter 8	More about strings
Week 10,11	Chapter 10	Classes and Object-Oriented Programming
Week 12,13	Chapter 11	Inheritance, Polymorphism
Week 14		Revision, Practice, Sheets, Exams

**Exams and Quizzes:**

Quizzes will generally be announced the previous class.

**EXAM SCHEDULE:****MID TERM :**

DATE: 12 Oct 2023

DAY: Thursday

TIME: 12-1

**Attendance:**

Students are expected to attend class; there is no system of permitted absences. The instructor in each class determines the effect of absences on a student's grade in that class." Students may not normally receive credit for a course if they do not attend 15% of the class meetings **Academic Integrity:**

Preamble: Valuing the concepts of academic integrity and independent effort, the Academy expects from its students the highest standards of scholarly conduct. The Academy community asserts that the reputation of the institution depends on the integrity of both faculty and students in their academic pursuits and that it are their joint responsibility to promote an atmosphere conducive to such standards.