King Fahd University of Petroleum and Minerals
Information and Computer Science Department
ICS 104: Introduction to Programming Using Python and C

Fall Semester 2021-2022 (Term 211)

Instructor: Saleh AlSaleh

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(Please mention your lab section number in the subject)

Office Hours: TBA

Lab Learning Outcomes

1. Use effectively a software development tool for Python programming.

2. Comprehend theoretical concepts through practical examples.

3. Strengthen programming capabilities to construct software systems of varying complexity.

4. Enhance teamwork and communication skills.

Lab Schedule

Week No	Date	Topic
1	Aug 29- Sep 2	**No Lab**
2	Sep 5-9	Lab 01: Jupyter Installation, Setup and Introduction
3	Sep 12-16	Lab 02: Variables, Strings and Arithmetic Operations 1
4	Sep 19-22	Lab 03: Variables, Strings and Arithmetic Operations 2
5	Sep 26- 30	Lab 04: Selection Structures 1
6	Oct 3- 7	Lab 05: Selection Structures 2
7	Oct 10 – 14	Lab Test 1 covers Labs 1 to 5 3% Lab 06: Repetitions and Loop Statements 1
8	Oct 18 – 24	Lab07: Repetitions and Loop Statements 2
9	Oct 25- 31	Lab 08: Functions
10	Nov 1- 7	Lab Test 2 covers Labs 6, 7 and 8 3% Lab 09: List, Tuples and Dictionaries Lab Project announcement
11	Nov 8 –14	Lab 10: Files and Exceptions
12	Nov 15 – 21	Lab 11: Classes and Object Orientation
13	Nov 22-27, Dec 5	Lab Test 3 covers Labs 9, 10 and 11 3% Lab 12: Introduction to C 1
	Nov 28 – Dec 2	Midterm Break
14	Dec 6 - 12	Lab 13: Introduction to C 2 Submission of Lab project by end of week
15	Dec 13 - 19	Lab Project Demo and discussion

Lab Assessment:

The lab component of the course has a weight of **20%**. It is divided as follows:

9% for Lab tests: dates and concerned labs are indicated on Lab schedule.

6% for Lab work:

Lab work will be out of **6%** and it is based on student's seriousness and active participation in solving and completing lab exercises. The lab work will be graded as follows:
Each lab work is graded out of **1 point**. At the end, the total lab work score will be rescaled **out of 6**.

5% for Lab Project: A lab project will be announced during week 10 and submitted by the end of week 14.

Regulations for conducting the Labs:

- Students must be punctual in attending the labs.

- **Lateness:** If a student is late for more than **20 minutes**, he will be considered as late. **Twice late means one absence.**

- If a student is **absent** in a lab **without excuse**, he will get **0** in corresponding lab work grade.

- If a student is absent with an excuse in a lab, no deduction will be applied to him. He should be encouraged to solve the assigned exercises by himself.

- The deadline for accepting an official excuse is, according to University regulations, no later than one week after the student resumes his classes.

- If a student misses **3 labs without excuse**, he will get **DN grade** without prior warning.