Tutorial Letter 102/0/2024

Visual Programming 1

INF1511

YEAR

School of Computing

IMPORTANT INFORMATION:

This tutorial letter contains **ASSIGNMENTS** for 2024.

All other important information is sent to your **myLife account** and is available on the module **INF1511 website**.

Page

Contents

Introduction INF1511

Welcome to INF1511 to a diverse class of students who are eager to master the principle of programming 😊.

No textbook and other online resources

To avoid unnncessary costs to the student, and to keep up to date with the latest books, we are accessing the Safari Books Online (O'Reilly) in the Unisa Library. You are encouraged to reference as many books and examples as possible to ensure understanding of the principles of programming, and the application within the Python language. You are also most welcome to watch online tutorials if there are aspects of the programming that requires additional explanation.

Programming environment

We are going to use the Anaconda Jupyter notebook environment to discover and learn the programming principles. You are welcome to use any other environment, however support is only provided for Anaconda.

The Units of INF1511

There are 8 units in this module. Each unit has both a theory and a practical application part. You are encouraged to consider both parts in your learning of the principles of programming.

Assignment Schedule 2024

This is the proposed schedule to pace your learning for the year module INF1511 in 2024.

Week	Monday Discussion	INF1511 30/70	MCQ Theory Time/3	Practical Worksheet Practical	MCQ Assignment Timed/1
1	4 March	Set Up Environment			
2	11 March				
3	18 March	Environment and operations	Unit 1	Unit 1	Unit 1
4	25 March				
5	1 April				
6	8 April	Decisions in programming	Unit 2	Unit 2	Unit 2
7	15 April				
8	22 April				
9	29 May	Looping in programming	Unit 3	Unit 3	Unit 3
10	6 May				
11	13 May				
12	20 May	Strings	Unit 4	Unit 4	Unit 4
13	27 May	(Deadline assign 1)			
14	3 June				
15	10 June	Functions and procedures	Unit 5	Unit 5	Unit 5
16	17 June				
17	24 June				
18	1 July				
19	8 July	Classes	Unit 6	Unit 6	Unit 6
20	15 July				
21	22 July				
22	29 July	File handling	Unit 7	Unit 7	Unit 7
23	5 Aug				
24	12 Aug				
25	19 Aug	Graphic user interfaces	Unit 8	Unit 8	Unit 8 (20)
26	26 Aug				
27	2 Sept				
28	9 Sept				
29	16 Sept				
30	23 Sept				

Unit Assignment Unique Numbers 2024

Each unit of the module has an MCQ timed assessment. You have ONE attempt only! The MCQ is based on the practical activities and examples, as presented in the online discussion presentations.

Unit Theory Self-Assessment (Optional quiz on INF1511 site)

- Each unit of the module has a **theory** MCQ timed self-assessment.
- You have limited attempts only.
- The MCQ questions are randomly selected from an MCQ question pool.
- Each unit theory self-assessment is timed.
- Each unit theory self-assessment is linear (no reverse answering permitted).
- All these unit theory self-assessments close on 24 September 2024.

Unit Practical Activities (Worksheet in unit folder)

- For each unit there are practical programming exercises and activities that will be discussed and explained during the unit online discussion sessions.
- The assignment template document (Jupyter Notebook page) will be discussed on the day of the unit discussion.
- You are encouraged (i.e. **required)** to complete prior to attempting the practical MCQ assessment.

Unit Practical Assignments (Required and on INF1511 site)

- Each unit of the module has a required unit practical assignment.
- For each unit, there is an MCQ **practical** programming assignment (based on and like the practical programming exercises of discussion.
- Each assessment is available on myUNISA INF1511 online site from day of unit discussion until 24 September. **(except Unit 1 that is due end of May 2024 for exam admission)**.
- The MCQ questions are randomly selected from two MCQ question pools, a theory pool (5) and a practical pool (10).
- Each assignment is timed, 30 minutes for 15 questions.
- Each assignment is linear (no reverse answering permitted).
- You have ONE attempt only.