Introduction to BIT100/BDA100 /DIP222

Introduction

Subject Code: BIT 100/BDA100/DIP222

Subject Name: Introduction to Programming/ Programming Principles

Lecturer: Dr. Fong Pui Kwan

Email: fong.pk@help.edu.my

Phone Extension: 2165

Delivery

1. Lecture (3 hours)

   Day & Time: Monday 9.00am – 12.00pm

   Venue: ALH2.5

2. Tutorial (2 hours)

   Day & Time: Monday 1.00pm – 3.00pm

   Venue: Lab Subang 2

(Schedule is subject to change. Please follow the latest timetable)

Note: Please bring your laptop for both lecture and tutorial sessions

Prescribed Text

Main References

Gaddis, T. (2018). *Starting out with Python* (4th ed.). Essex, England: Pearson Education Limited.

Additional References

Zelle, J. (2016). Python programming: An Introduction to Computer Science. (3rd ed.). Washington, USA: Franklin, Beedle & Associates Inc,

Punch, W., & Enbody, R. (2016). *The Practice of Computing using Python* (3rd ed.). Upper Saddle River, NJ: Pearson Education.

Subject Material

All materials, online activities and announcements regarding this subject can be obtained from LMS (https://lms.help.edu.my)

Subject Objectives

The course intends to teach the student about the major steps in the programming process, the techniques for analyzing programming problems, and designing appropriate program, using Python as the preferred language.

Subject Learning Outcomes

On completion of this subject, student will be able to:

- Explain the steps involved in program development

- Discuss element of good programming style

- Interpret algorithms and program code

- Apply the concept of object orientation as an approach to data abstraction

- Write programs to solve basic computing problems

Programming tools

Python: https://www.python.org/downloads/

Anaconda: https://www.anaconda.com/distribution/

Assessment

Assignment 1 – 10%

Assignment 2 – 10%

Lab Test 1 – 10%

Lab Test 2 – 10%

Final Examination – 60%

Assessment Passing Requirements

BIT100 & BDA100

To pass this subject you have to meet the following three criteria:

1. Gain at least 50% for the exam;

2. Gain at least 50% for the assignment; and

3. Gain at least 50% for the entire subject
   (that is, exam mark plus assessment marks).

DIP220

1. Overall pass – 50% for the entire subject (exam mark plus assessments mark)

- Please note, the 'raw marks' written on your assignments, etc. may not be exactly the same as the marks used to determine your final grade, as a result of a grade moderation process.

- The penalty imposed for late submission of assignments is 5% of 100 marks per working day. Maximum 7 days, thereafter 0 will be awarded.

- Students must attempt all assessments