BIT100 Unit Outline

Unit Code and Title: BIT100 Introduction to Programming
Course(s): Bachelor of Business (Technology Management), Associate Degree in Business and Technology, Diploma of Business and Technology
Core Unit: Yes
Credit Points: 10 credit points
Study Period: Year One
AQF Level 7: One Quadmester
Study Load: Students should expect to spend approximately 130 hours on studying and completing assignments across the study period. This includes time spent attending scheduled weekly classes, Work Integrated Learning (WIL) activities (if any), undertaking private study, and preparing for assessments, and examinations.
Pre-Requisite: None
Mode(s) of Delivery: This unit will be delivered predominantly face-to-face and online via Learning Management System (Canvas)/Zoom with recordings available for later viewing. Where appropriate, assessments MUST be submitted to Turnitin for authentication checking

Unit Description:

This introductory unit aims at equipping students with the ability to write simple object orientated programs. Topics include data representation in a computer, algorithm design, classes and inheritance, arrays, Boolean expressions, selection and repetition control structures, and basic file I/O. These will be discussed in the context of implementation in the Java programming language.

Prescribed Textbook:

Farrell, J., 2018. Java Programming 9th Edition. Cengage Learning.

Unit Learning Outcomes (ULOs): On successful completion of this unit, students will be able to:

[ULO1] Classify and apply the principles of structured programming and how they relate to syntactical elements of programming.
[ULO2] Apply code reading and debugging techniques to analyse, interpret, and describe the purpose of program code.
[ULO3] Construct and assess small programs using the programming languages.

[ULO4] Apply and review inheritance concepts.
[ULO5] Identify and evaluate exception handling of file input and output.

Assessment Requirements:

Assessment Type	**Due**	**Weighting** (% of total marks)
Assessment 1: Discussion Forum – On-Campus and Online	Week 1 to 8	10%
Assessment 2: Individual Programming Based Assignment: An individual programming-based assignment would require the students to sit for one knowledge test in week 3 in terms of preparing them to prepare and submit the coding in week 4. This includes classifying and applying the principles of structured programming and how they relate to syntactical elements of programming, applying code reading and debugging techniques to analyse, interpret, and describe the purpose of program code and constructing and assessing small programs using the programming languages. Word limit is 1,500.	Week 4	15%
Assessment 3: Group Programming Project Report with Presentation: A group programming project would require the students working in groups to sit for two knowledge tests in week 6 and 7 in terms of submitting the group report in week 8. This includes classifying and applying the principles of structured programming and how they relate to syntactical elements of programming, applying code reading and debugging techniques to analyse, interpret, and describe the purpose of program code and constructing and assessing small programs using the programming languages. In addition, they are required to apply and review inheritance concepts and identify and evaluate exception handling of file input and output. Part C: Presentation. Groups of three or four must provide a 6000-word written report with an individual reflective summary report of 1500 words from each group member. Variations of plus or minus 10% of word limitation are acceptable.	Week 8	25% (Report 20% plus presentation 5%)
Assessment 4: Final examination (Closed Book). The 3 hours invigilated examination is conducted in the week 10 following the week 9 of study break and exam revision	Week 10	50%

Note: It is your responsibility as a student to regularly check the academic policy documents available on the school website and unit materials available on the Learning Management System (LMS). ***Failure to do so could lead to students taking a risk of failing to maintain satisfactory progress in the unit and completing the course on time**. ***A breach of academic integrity could lead to the imposition of penalties**.