

BIS1003 Introduction to Programming

Unit Description

This unit provides students with an overview of the fundamental knowledge and skills required to code applications. The goal of this unit is to provide a theoretical and practice foundation for understanding the basic concepts of programming. The unit provides a foundational understanding of program design and implementation of algorithms to solve simple problems. Topics covered include basic input and output, program control structures, basic data structures and modular program structures.

Credit Points	6 credit points
Duration	12 weeks (10 teaching weeks and 2 revision and assessment weeks)

Unit Learning Outcomes

On successful completion of this unit, students will be able to:

1. Analyse a given problem and construct a logical solution suitable for implementation as a computer language.
2. Demonstrate an understanding of basic structured programming concepts and constructs.
3. Design an algorithm that applies structured programming techniques to solve a given problem.
4. Use programming skills and basic usability principles to design and implement simple applications.
5. Apply testing strategies to demonstrate that an application meets its specifications.