1806ICT Programming Fundamentals

Course Overview

1

1

Course Information

Course code: 1806ICT

Course title: Programming Fundamentals

Program: Bachelor of Computer Science

Credit point value: 10 CP

Staff Details

- Lecturer
 - Dr. Wayne Pullan(G09 1.70)w.pullan@griffith.edu.au
- Sessional Staff
 - Dylan Janssen

3

3

Consultation Time

Wednesday

3pm - 4pm

Microsoft Teams

Please send me an email in advance, if you wish to talk to me at another time.

Course Description

This is a foundational course that thoroughly covers all of the fundamental programming concepts, basic data structures, algorithmic processes, and includes those skills and concepts that are essential to programming practice independent of underlying paradigms.

The widely deployed C language is used in the context of programming in PCs and embedded devices.

5

Objectives

On completion of the course, the student will have a sound understanding of fundamental programming principles, and the ability to write effective and efficient computer programs.

Programme

	Hours
Lectures	24
Computer Labs	24
Private Study and Preparation	72
Total (average 10 hrs/week)	120

Attendance and participation at lectures and computer labs are strongly recommended and expected.

7

Texts and Supporting Materials

Recommended Text

 Programming in C, 4th ed., Stephen G. Kochan, Addison Wesley, 2014.

Additional References

- The C Programming Language, 2nd ed., Brian Kernighan, Dennis Ritchie, Prentice Hall, 1988
- C in a Nutshell, Peter Prinz, Tony Crawford, O' Reilly Media, 2005.

Why C?

- A language that has proven to be reliable, flexible and powerful
 - Has survived more than 4 decades
- Used for a variety of applications, ranging from business program to engineering
 - Windows, UNIX, Linux
 - Embedded systems, e.g. modems, routers, ...
- Capable of accessing system's low level functions and hardware

9