Lecturer:

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Lectures:

Semester 1: Mon 9:00am (WGB G.03), Wed 3pm (WGB 1.07), Fri 12nn (WGB 1.07)
Semester 2: Mon 9:00am (WGB G.03), Wed 3pm (WGB 1.07), Fri 11am (WGB G.05)

Labs:

Each student will have a supervised weekly lab session, in WGB G.20, on either Tue or Wed from 4pm – 6pm. *Intel Core-Duo* (3 GHz) computers, running the *Linux* Operating system and the *KDE* environment, will be used. These lab facilities will also be available to students outside of any scheduled lab times. Students should carefully prepare written solutions to the lab assignments prior to attending their lab.

Recommended Book:

Python – Visual Quickstart Guide (Third Edition) : Toby Donaldson : Peachpit Press : 2014 (if you buy this book, you will also receive access to an electronic copy of the complete text).

Module Description:

This module introduces the two most fundamental aspects of Computer Science: the design of systematic problem-solving schemes, known as *algorithms*, and their actual implementation by means of *computer programs*. Neither prior knowledge of Computer Science, nor experience in using computers, will be assumed.

All programs in this module are written in the language *Python 3* (www.python.org). Python is a remarkably clear, concise, high-level, easy-to-learn language, well-established in both academic and commercial computing. It will also be used within several other modules in the Computer Science curriculum at UCC.

The module includes weekly lab assignments involving the design, implementation, and testing of computer programs of increasing complexity and sophistication. These assignments form a crucial part of the module, and it is very important that students work on them *individually*. All students found collaborating with others will receive a score of zero for their work.

Grading:

75% : Summer / Autumn Examination (three-hour written paper)
25% : Continuous Assessment (Lab Assignments / Spring Examination)

Lab Assignments have strict due dates; late work will not be accepted, unless under extreme and verifiable circumstances. Only some of these assignments will be graded, but all should be completed and submitted. Note that students taking the repeat Autumn Examination do *not* repeat the Lab Assignments. Details of the written Spring Examination will be provided later.

Three Golden Tips:

- *attend the lectures!*   • *keep up to date!*   • *do the lab assignments!*

Final Thought:

You're setting out on what could very well be the most interesting, challenging, rewarding, and wonderful academic adventure that you've ever experienced. Throw yourself fully into it, and Best Wishes for a really satisfying and successful year!