

CN5104 Computing in Practice Term 2 2018-19

Work-Based Learning module

Sourcing of suitable placements/internships

Technical Skills Sets

Analysis, specification and design of information systems using the Unified Modelling Language (UML) (basic, all students)

Software development using Java (basic, Computing for Business; intermediate, Computer Science)

Web-site development using HTML and CSS (basic, all students)

Knowledge of the main components of computer systems and networks, their purpose and function (basic, all students)

Knowledge of data communication technologies and TCP/IP protocols (intermediate, Computer Science)

Data analysis using MATLAB (basic, Computing for Business)

Modelling of data using entity relationship models and the design of relational databases (basic, all students)

Using SQL to query relational databases (basic, all students)

Knowledge of Windows and Linux operating systems and the creation of shell scripts to automate administrative tasks (basic, Computer Science)

Suitable Roles

Software developer/programmer/tester

Web developer

User/technical support

System/network administrator

Database designer/administrator

Data analyst

IT trainer

Technical author

Office administrator (as long as the role involves the use of IT in some non-trivial way eg spreadsheets, databases etc)