

7SENG012W Software Development Environments

Contact Details

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Topics in Module

- Software Development and Tool Support
 - Software Life-Cycle
 - software tools
 - Compilers
 - assemblers
 - linkers and loaders
 - debuggers
 - IDEs
 - version control

Topics in Module

- Operating Systems

- Structure and main components:
 - i/o, file system, memory and processes.
- Resource allocation and management algorithms
- operating system command line tools
- Shell script programming
 - Bash

- Computer Hardware

- Standard configuration and components of a computer's hardware
- Data representation:
 - binary, octal, hexadecimal, IEEE floating point, signed and unsigned number representation; and characters, e.g. ASCII

Topics in Module

- Computer Networks
 - Network topologies and network types
 - Network models (OSI and TCP/IP)
 - Networking technologies and Protocols
 - Network addressing and routing

Assessments:

- In-Class Lab test weighting: 50%
- Exam weighting: 50%

Software Requirements

- Access to a Linux machine
- You can connect to the universities Linux Machine
- Open terminal from your machine
- type ssh [<username>@compute0.wmin.ac.uk](#)
- e.g. [w1234567@compute0.wmin.ac.uk](#)
- This will prompt you for your password and you will be logged into your account.