

Computer Systems and Networks Workshop

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Agenda

- Introductions
- Module structure
- Module assessment
- Ethos



Introduction

Caroline Cahill

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Module Structure

12 Week Delivery

Lectures

Labs

Monday

Friday

Tuesday

Thursday

Operational tech

- As before...



Development Tech



```
#!/bin/bash
# This is a basic bash script.
a=Hello
b="Good Morning"
c=16

echo $a
echo $b
echo $c
```



Topics

Week1

- Computer Architecture

Week2

- Shell Scripting

Week 3

- Number Bases

Week 4

- Boolean

Week 5

- Operating Systems Concepts

Week 6

- Introduction to computer networking
- Introduction to virtualisation

Week 7

- Shell Scripting 2

Week 8

- Physical Layer protocols and Addressing; Network Layer protocols and Addressing

Week 9

- Transport and application layer protocols

Week 10

- Wireless Protocols WIFI, Bluetooth; MQTT and Messaging

Week 11

- IoT Cloud Platforms

Week 12

- IoT Architectures and Applications

Assignment Structure

- **25% Exam**
 - On-site, 20th December
- **75% Continuous Assessment**
 - 35% Assignment 1 (Computer Systems/Operating Systems)
 - 40% Assignment 2 (Networking/Devices)



Assessment Method

- On-site exam
 - Multiple choice/free text combination
- Assignments
 - 2nd assignment will require video
 - On-line interviews/demo



Ethos

- Focus on practical skills
- Good idea to stay current with module:
 - Some lectures will require reading/viewing of talks before.
- Experiment/build something interesting:
 - You will have the opportunity to propose your own project!

