Computer Systems and Networks Workshop

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Agenda

- Introductions
- Module structure
- Module assessment
- Ethos



Introduction

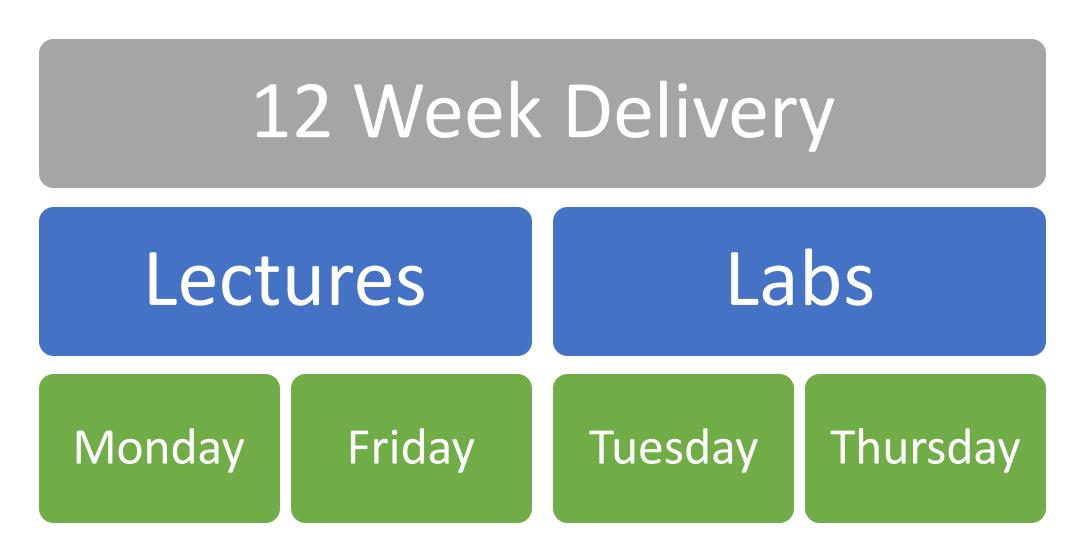
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Module Structure



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

• 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!

