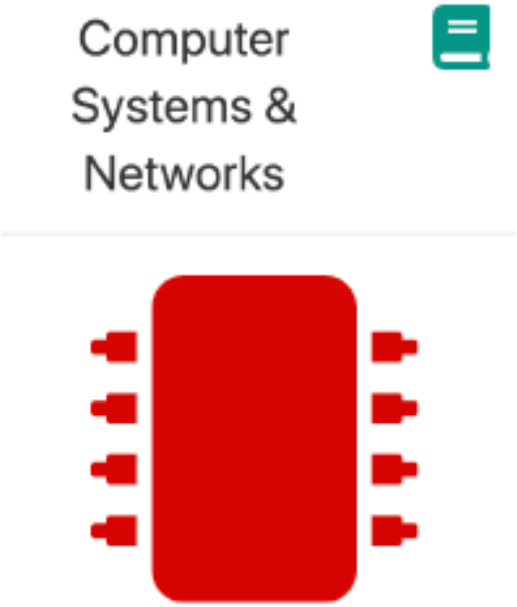
Welcome!!



THURSDAY 23RD MAY, 2024

Computer Systems & Networks

Caroline Cahill

caroline.cahill@setu.ie

Caroline Cahill
Caroline Cahill

Dr Frank Walsh

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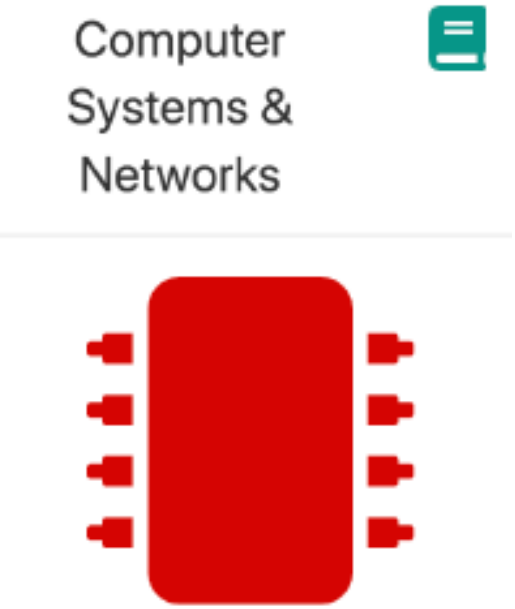
Frank Walsh(Lecturer)
Frank Walsh

Computer Systems & Networks

10 Credit

Module delivery split between Frank & Caroline

Timetabled for TWO sessions per week



Semester 2

2024

Computer Systems & Networks

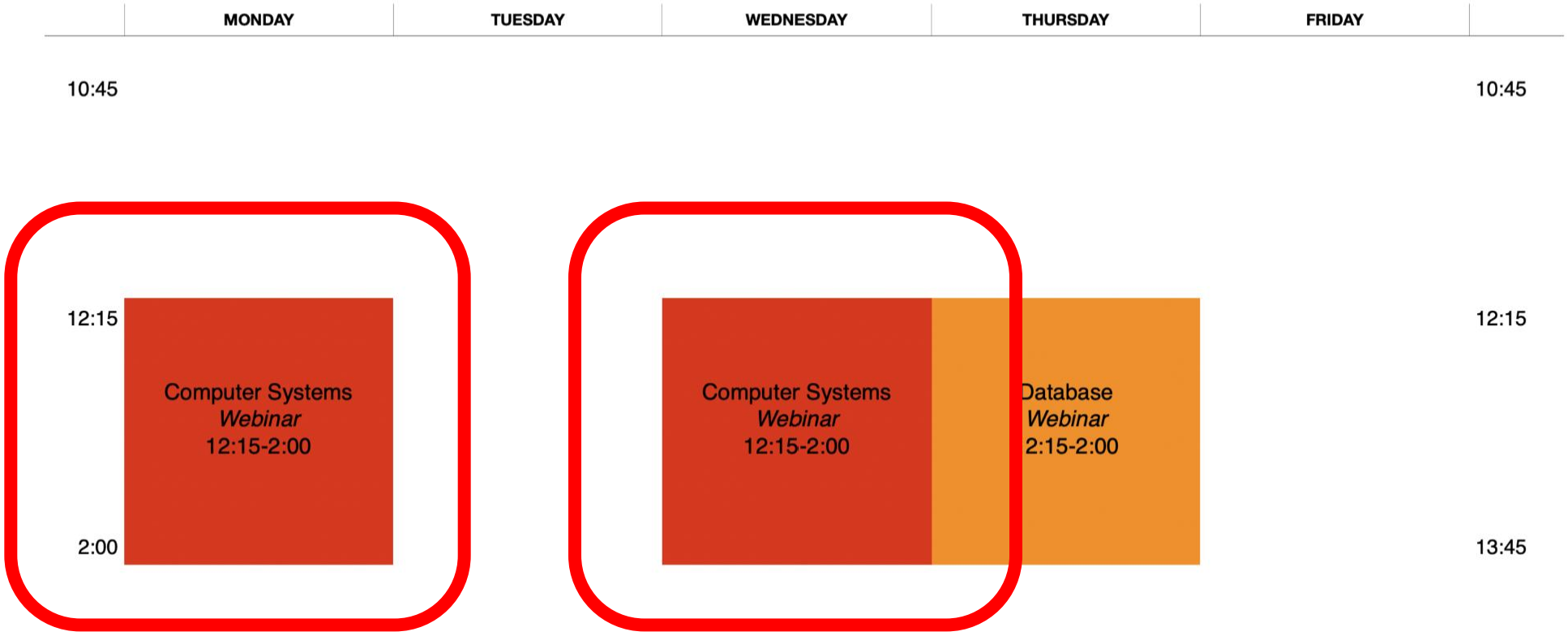
logic · computer organisation · os · networks · interfaces · sensors

Database

entities · tables · rows · sql · er · nosql

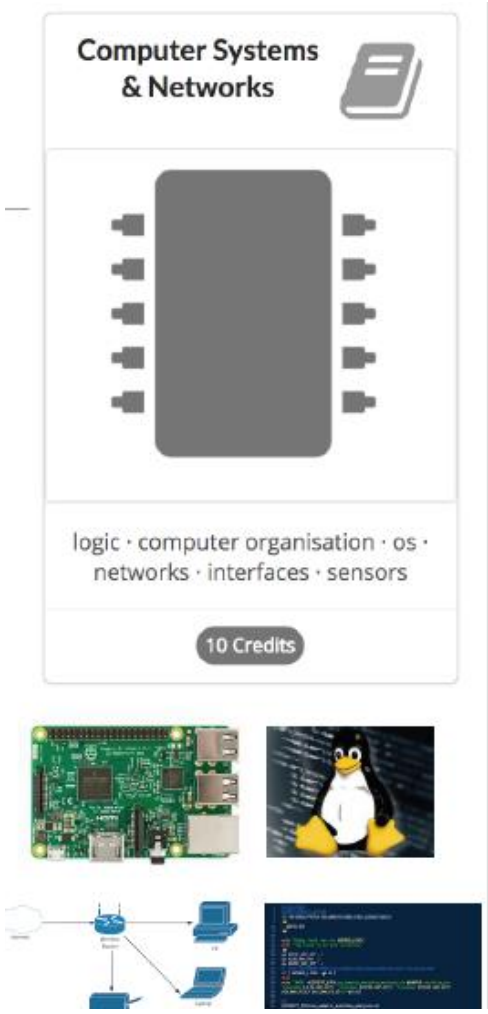
2024								
Semester 2		S	M	T	W	T	F	S	Modules
September									
	1	1	2	3	4	5	6	7	comp sys & database
	2	8	9	10	11	12	13	14	comp sys & database
	3	15	16	17	18	19	20	21	comp sys & database
	reading-week	22	23	24	25	26	27	28	
October	*4*	29	30	1	2	3	4	5	comp sys & database
	5	6	7	8	9	10	11	12	comp sys & database
	6	13	14	15	16	17	18	19	comp sys & database
	reading-week	20	21	22	23	24	25	26	
November	*7*	27	28	29	30	31	1	2	comp sys & database
	8	3	4	5	6	7	8	9	comp sys & database
	9	10	11	12	13	14	15	16	comp sys & database
	reading-week	17	18	19	20	21	22	23	
	10	24	25	26	27	28	29	30	comp sys & database
December	*11*	1	2	3	4	5	6	7	comp sys & database
	12	8	9	10	11	12	13	14	comp sys & database
		15	16	17	18	19	20	21	
		22	24	24	25	26	27	28	
January		29	30	1	2	3	4	5	

Weekly Webinar Schedule



Module Overview: (Available on Handbook)

- Number bases used in Computer Science
- Boolean logic
- Computer system architecture
- Operating systems: Components, services, and utilities
- Memory and file management
- Scripting and shell programming
- Virtualisation and hypervisors
- Internet protocol suite
- Physical/network addressing
- Transport layer protocols
- Application layer protocols
- Wireless network protocols: LAN and PAN



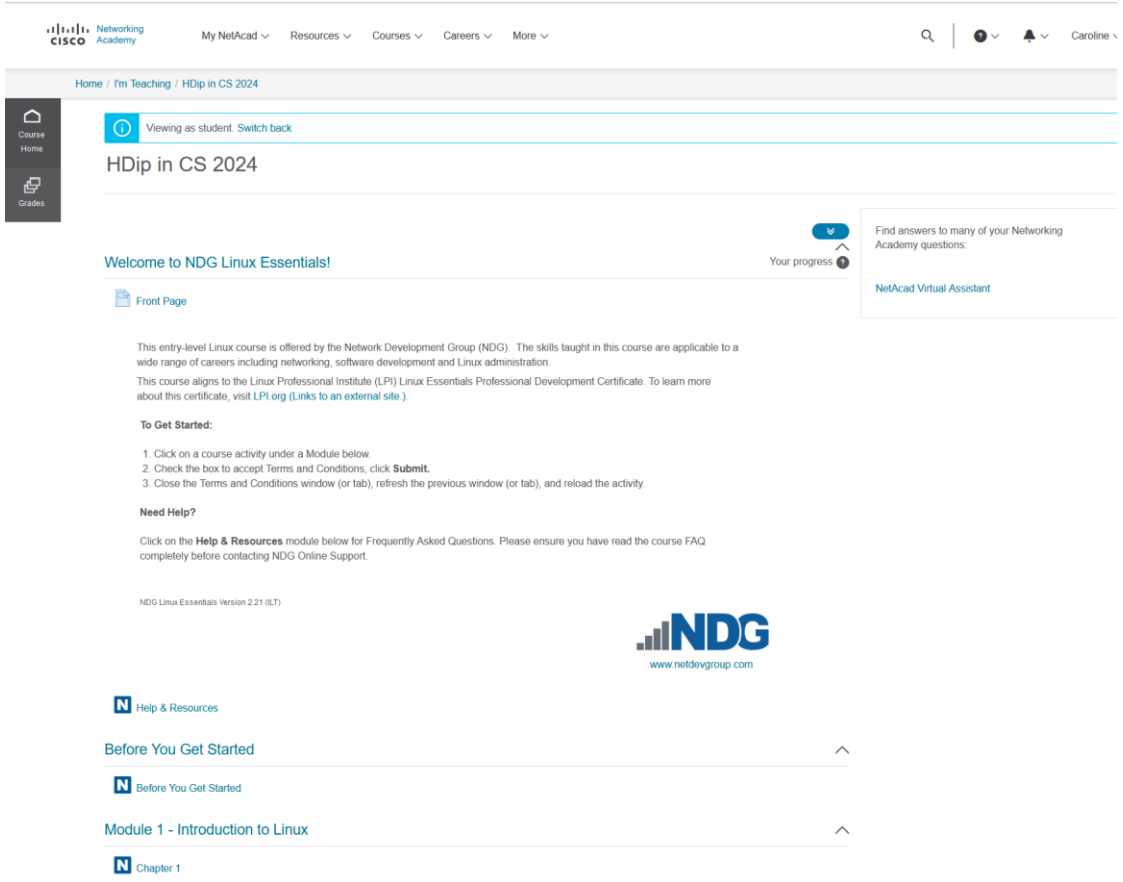
Development Tech (tentative)


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

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

Cisco NetAcad

YOU WILL COMPLETE UP TO AND INCLUDING MODULE 11



Module 1 - Introduction to Linux

- Chapter 1

Module 2 - Operating Systems

- Chapter 2
- Chapter 02 Exam ☐

Module 3 - Working in Linux

- Chapter 3
- Chapter 03 Exam ☐

Module 4 - Open Source Software and Licensing

- Chapter 4
- Chapter 04 Exam ☐

Module 5 - Command Line Skills

- Chapter 5
- Lab 05 ☐
- Chapter 05 Exam ☐

Module 6 - Getting Help

- Chapter 6
- Lab 06 ☐
- Chapter 06 Exam ☐

Module 7 - Navigating the Filesystem

- Chapter 7
- Lab 07 ☐
- Chapter 07 Exam ☐

Module 8 - Managing Files and Directories

- Chapter 8
- Lab 08 ☐
- Chapter 08 Exam ☐

Using Linux

You could use any emulator/any virtualiser software & then install Linux on top of this

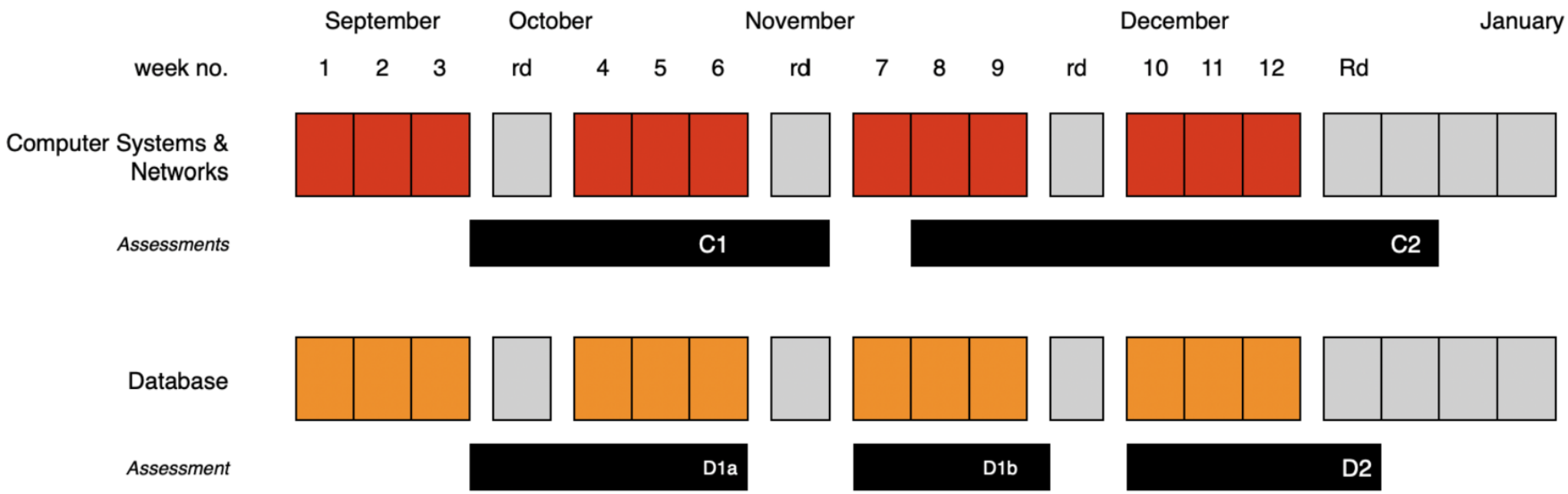
(= keeps your Linux completely separate from your work system)

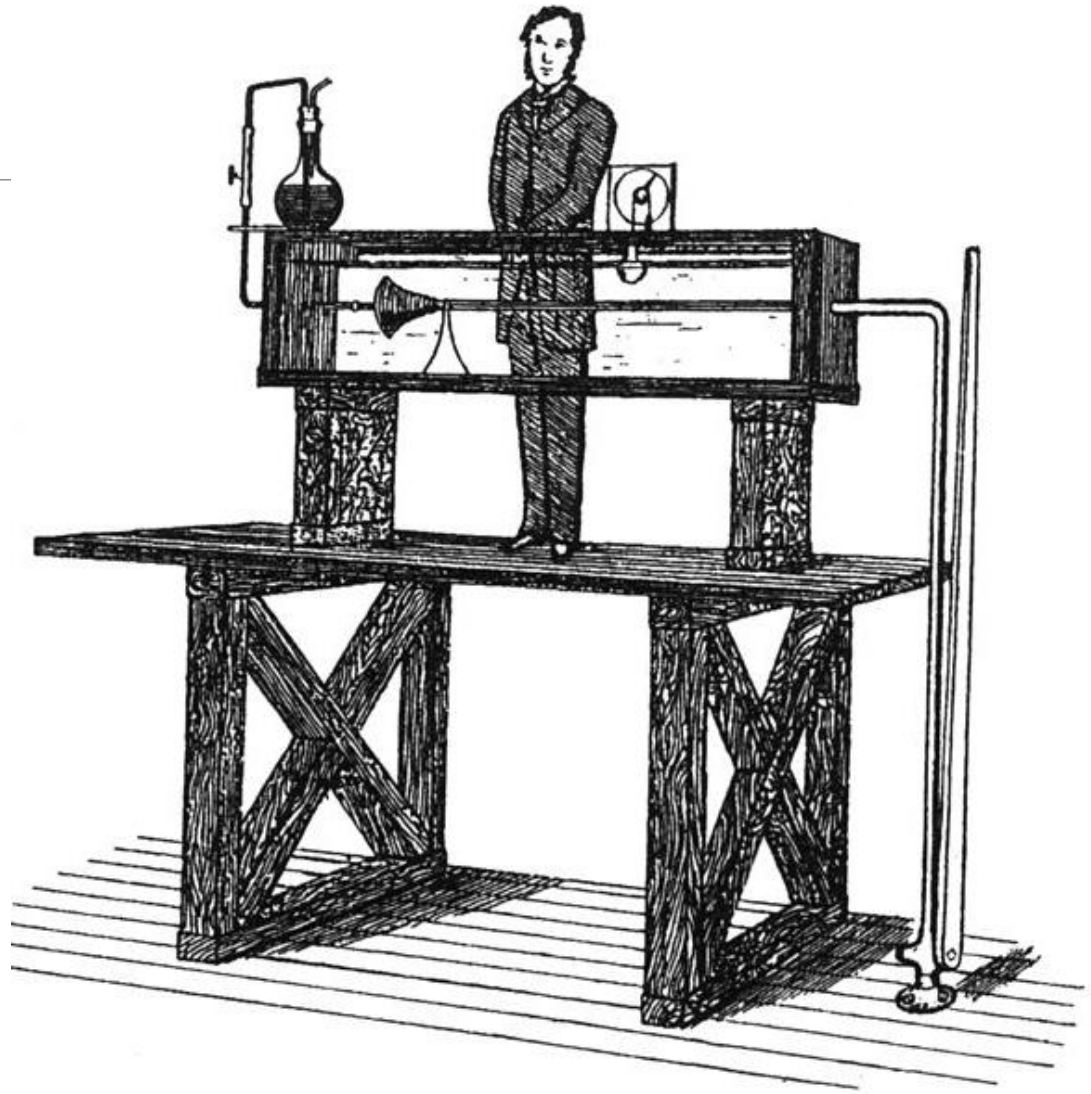
- You could install VirtualBox & then install **Lubuntu** onto this
  VirtualBox also won't install on a M1/M2 chip as they removed support for it
- You can use a UTM virtualiser (was created for macOS & only for Apple platforms)
- You can install Lubuntu on a Raspberry Pi (the SD card will hold everything)
- You can use WSL (windows subsystem for linux)

- If using a Mac, the standard Mac terminal will be perfect
  NOTE: If you use the mac terminal then you are working and making changes to your actual OS

My screenshots in the notes will be taken off my own Lubuntu that I've installed in VirtualBox

Semester 2 Assessment Schedule





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 assignment!

Which will you use?