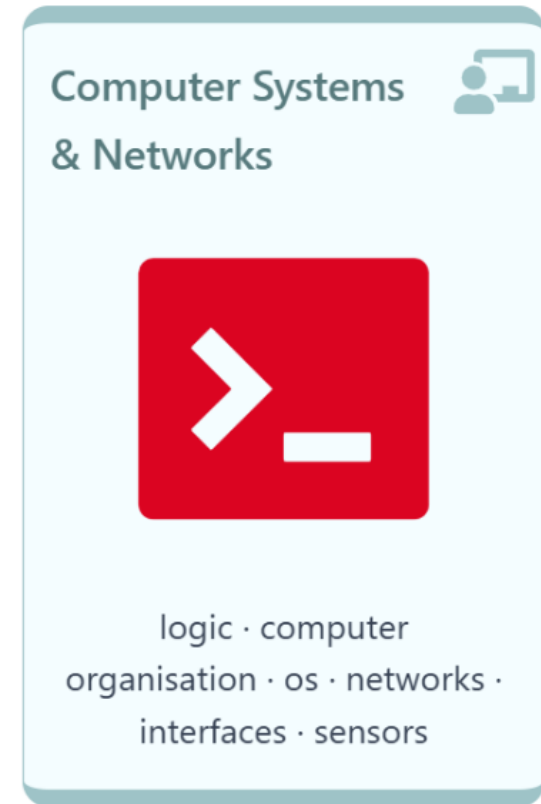


Welcome!!



THURSDAY 22ND MAY, 2025

Computer Systems & Networks

Caroline Cahill

caroline.cahill@setu.ie



Caroline Cahill
Caroline Cahill

Dr Frank Walsh

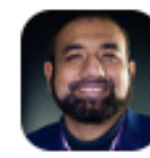
frank.w.walsh@setu.ie



Frank Walsh(Lecturer) ○
Frank Walsh

Dr Mujahid Tabassum

mujahid.Tabassum@setu.ie



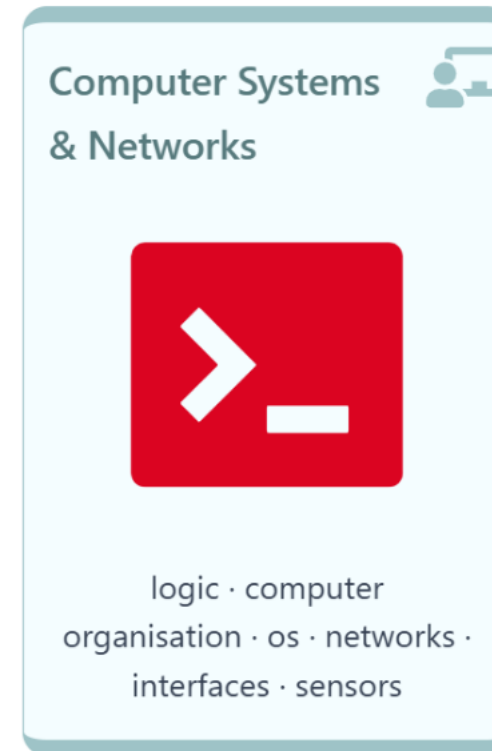
Mujahid Tabassum

Computer Systems & Networks

10 Credit


Module delivery split between Mujahid, Frank & Caroline

Timetabled for TWO sessions per week






Semester 2 2025

Computer Systems & Networks


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

Database


entities · tables · rows · sql
· er · nosql

2024		S	M	T	W	T	F	S	Modules
Semester 2									
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

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
10:45						10:45
12:15						12:15
2:00						13:45

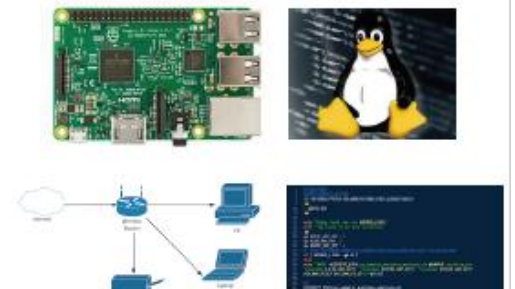
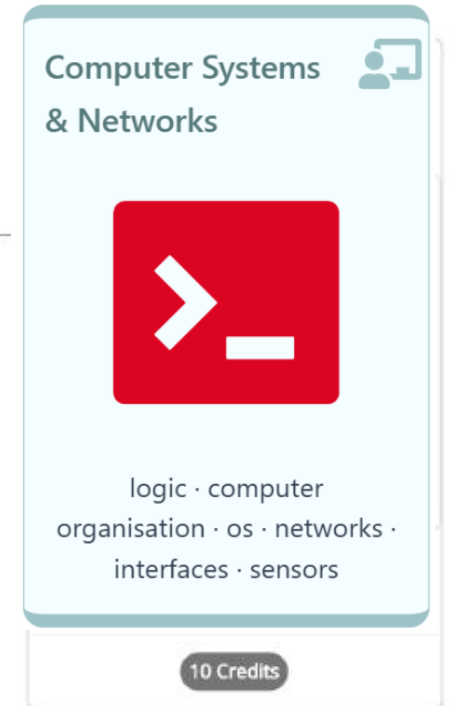
Computer Systems Webinar
12:15-2:00

Computer Systems Webinar
12:15-2:00

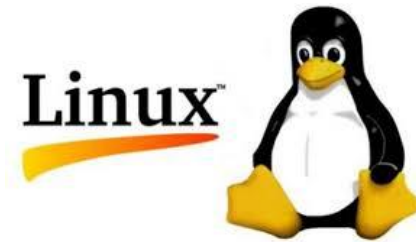
Database Webinar
2:15-2:00

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
```



Build Your Skills With Cisco

Pursue real career paths through instructor-led courses taught by experts and free, online courses backed by Cisco's expertise.



Cisco NetAcad

YOU WILL COMPLETE UP
TO AND INCLUDING
MODULE 11

Find answers to many of your Networking Academy questions:

[NetAcad Virtual Assistant](#)

 [Front Page](#)

This course aligns to the Linux Professional Institute (LPI) Linux Essentials Professional Development Certificate. To learn more about this certificate, visit [LPI.org](https://www.lpi.org) ([Links to an external site.](#)).

1. Click on a course activity under a Module below.
2. Check the box to accept Terms and Conditions, click **Submit**.
3. Close the Terms and Conditions window (or tab), refresh the previous window (or tab), and reload the activity.

Click on the **Help & Resources** module below for Frequently Asked Questions. Please ensure you have read the course FAQ completely before contacting NDG Online Support.

NDG Linux Essentials Version 2.21 (ILT)



N Help & Resources

Before You Get Started

N Before You Get Started

Module 1 - Introduction to Linux

N Chapter 1

Module 1 - Introduction to Linux

N Chapter 1

Module 2 - Operating Systems

N Chapter 2

N Chapter 02 Exam

Module 3 - Working in Linux

N Chapter 3

N Chapter 03 Exam

Module 4 - Open Source Software and Licensing

N Chapter 4

N Chapter 04 Exam

Module 5 - Command Line Skills

N Chapter 5

N Lab 05

N Chapter 05 Exam

Module 6 - Getting Help

N Chapter 6

N Lab 06

N Chapter 06 Exam

Module 7 - Navigating the Filesystem

N Chapter 7

N Lab 07

N Chapter 07 Exam

Module 8 - Managing Files and Directories

N Chapter 8

N Lab 08

N Chapter 08 Exam

Using Linux

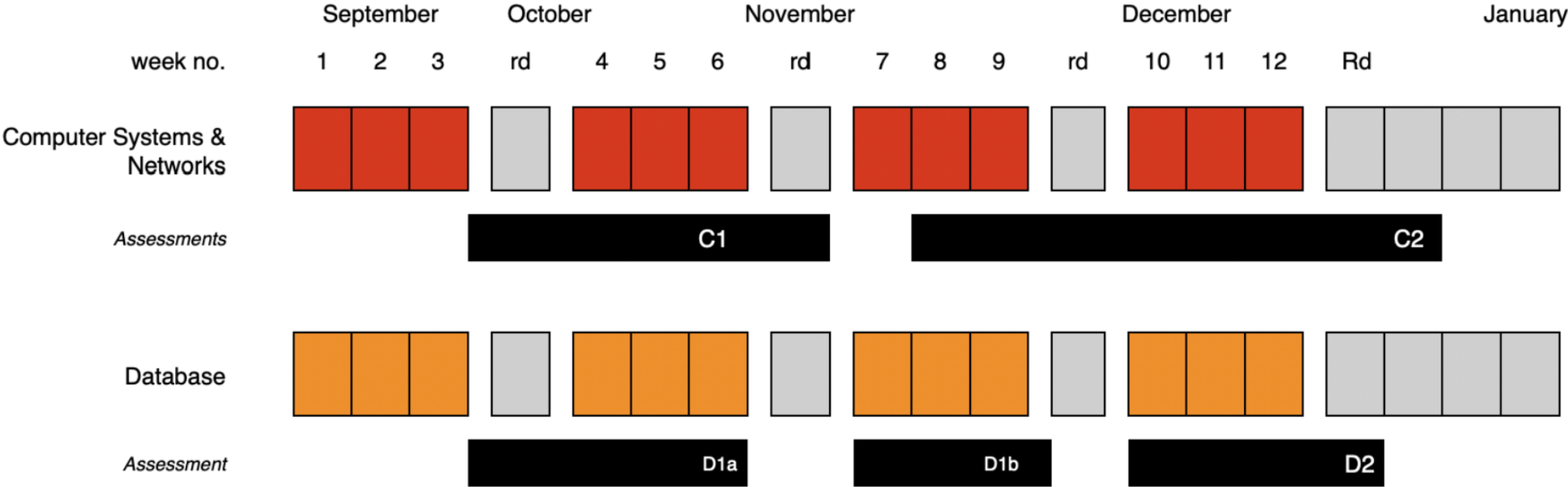
You could use any emulator/any virtualiser software & then install Linux on top of this

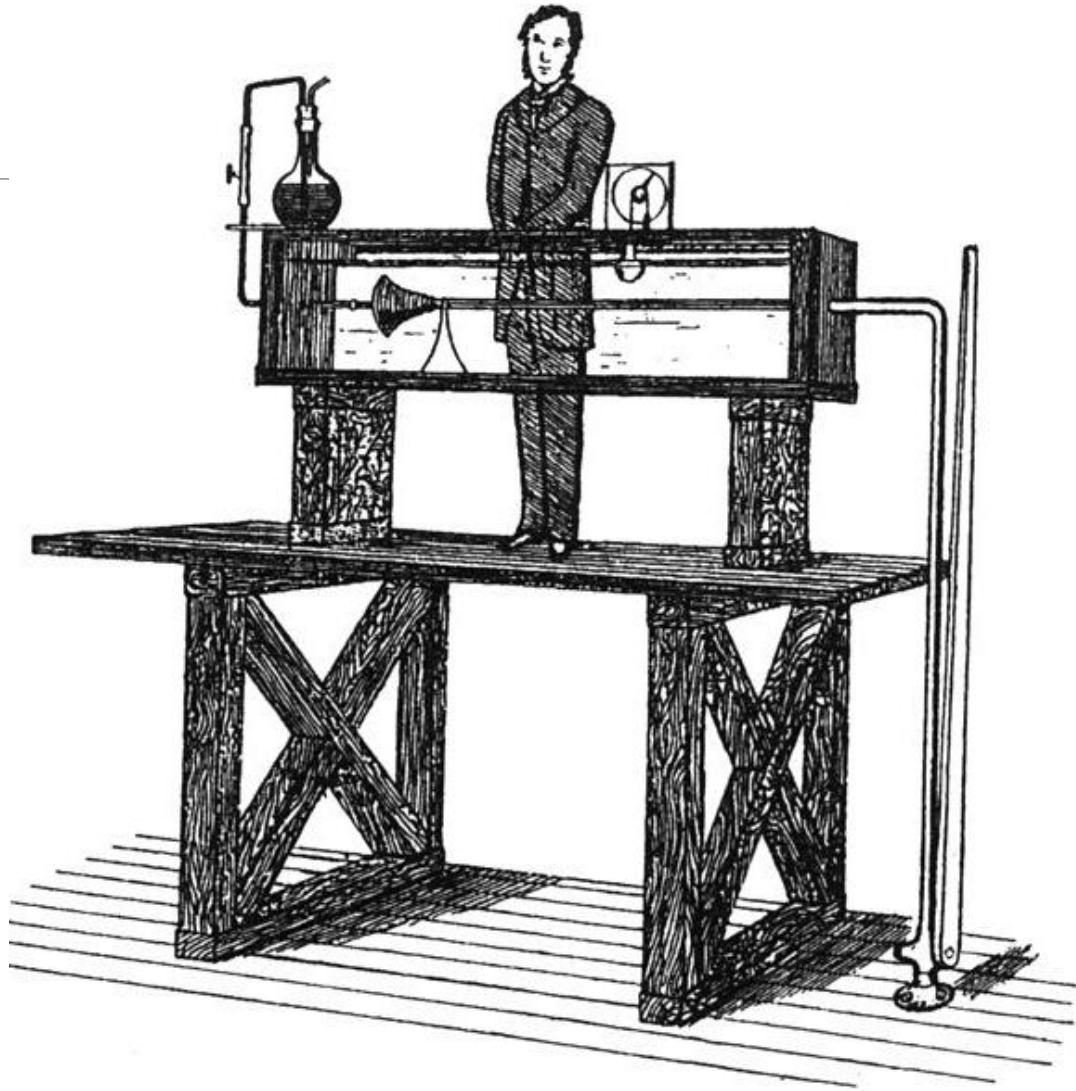
(= keeps your Linux completely separate from your work system)

- ❖ 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?
