

ICT Skills / June Onsite

June 2-day onsite objectives

Preview and Prepare for
Semester 2

Semester 2 Preview

Learn about Placement
opportunities from our Industry
Partners

Industry Partner Panel

13	19	20	21	22	23	24	25	skills studio 1
14	26	27	28	29	30	31	1	skills studio 1
15	2	3	4	5	6	7	8	skills studio 1
16	9	10	11	12	13	14	15	on site
17	16	17	18	19	20	21	22	skills studio 1
18	23	24	25	26	27	28	29	skills studio 1
19	30	1	2	3	4	5	6	

June 13th
& 14th

Location



<https://witarena.ie/>

Agenda Thursday 13th

9.00	Welcome, Agenda, Work Placement brief Eamonn de Leastar, Colm Dunphy Joan Mangan	Semester 2 Preview Work placement
9.30	Computer Systems & Networks Frank Walsh, Caroline Cahill	Workshop 1
10.30	Coffee Break	
11.00	Computer Systems & Networks Frank Walsh, Caroline Cahill	Workshop 1
12.00	Greenway Walk	

14.00	GIT Workshop Redhat Ger Ryan / Ciaran Roche	
17.00	Finish	

Agenda Friday 14th

9.00	Data Science Bernard Butler	TSSG
10.00	Database Mary Lyng, Roseanne Birney	Workshop 2
11.00	Coffee Break	
11.15	Database Mary Lyng, Roseanne Birney	Workshop 2
12.00	Manage to Learn! Greenway events Laura Mc G	
13.00	Lunch	

14.00	
16.00	Finish

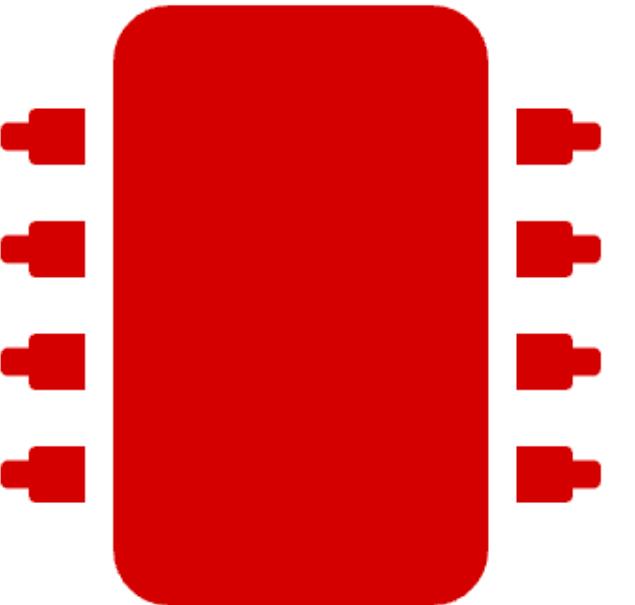
Employer Partners Panel
Discussion

Agenda

9.00	<p>Welcome, Agenda, Work Placement brief</p> <p>Eamonn de Leastar, Colm Dunphy Joan Mangan</p>	<p>Semester 2 Preview Work placement</p>

- Semester 2 Modules
- Semester 2 Calendar (Draft)
- Work Placement.

Computer Systems & Networks



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

10 Credits

Databases

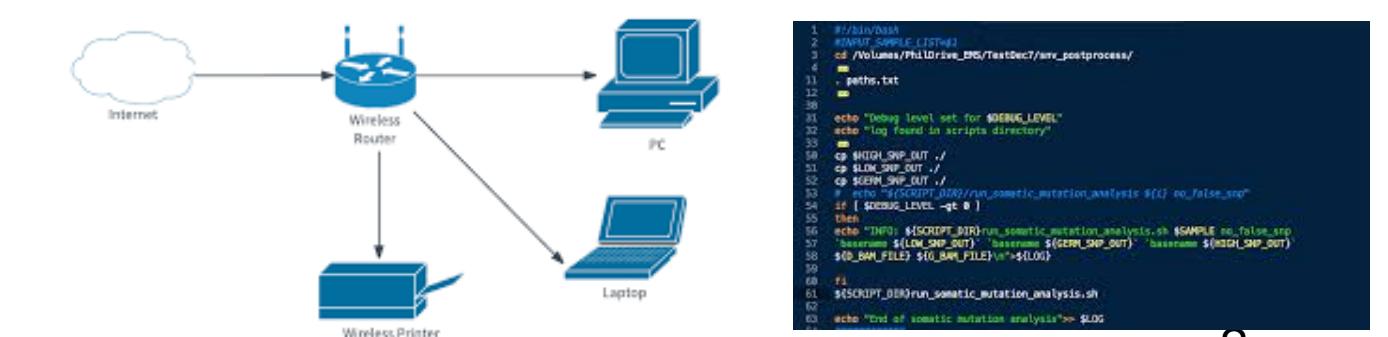
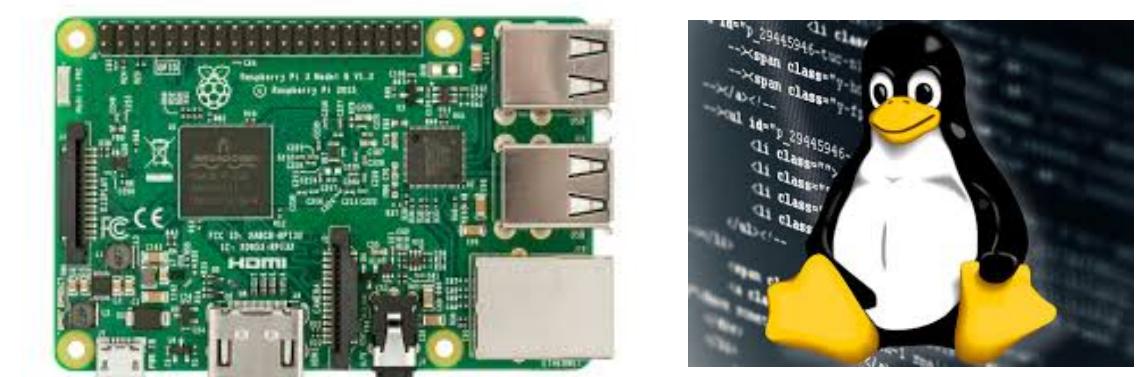


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nosql

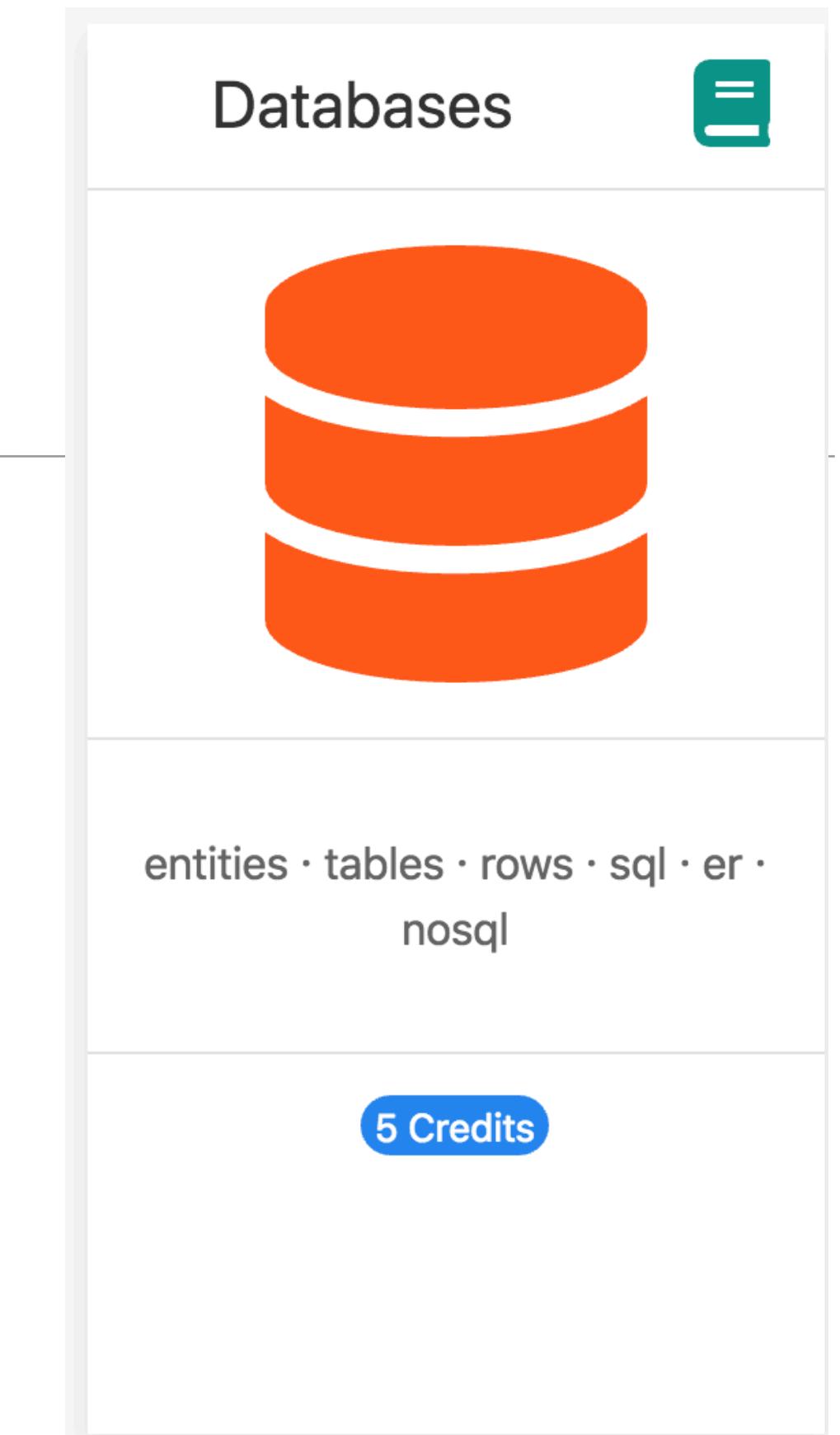
5 Credits

- Identify and explain the role various hardware components play in a computer system.
 - Use an operating system on a chosen computer architecture.
 - Demonstrate an ability to configure systems using the command line.
 - Describe the memory management, process management and file management components of a modern operating system.
 - Explain basic concepts and theory of networked operating systems and virtualisation.
 - Configure a contemporary operating system (within a virtual machine environment)
 - Demonstrate competency in a limited set of utilities provided by a contemporary operating system.
 - Complete basic automation tasks using scripting.

The slide features a large title 'Computer Systems & Networks' in a dark font at the top left. To the right of the title is a teal square icon with three horizontal white bars. Below the title is a large, solid red rectangular box. Inside this red box are four smaller red icons, each showing a hand giving a thumbs up. The slide has a light gray background with thin horizontal lines separating sections. At the bottom center is a blue rounded rectangle containing the text '10 Credits'.



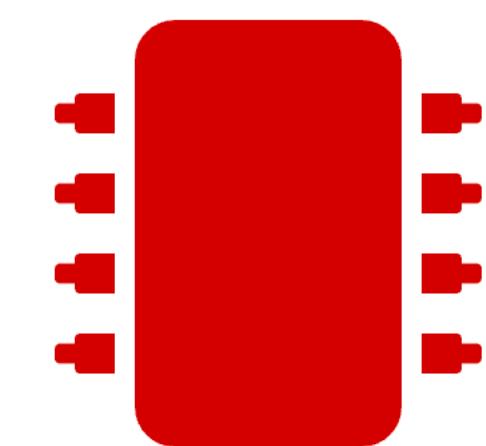
- Discuss the role of a database and its management system.
- Draw Entity Relationship (ER) diagram from an application problem and reproduce this diagram into a set of normalised relations, which are ready for database implementation.
- Design a NoSQL database suitable for a distributed environment with consideration of the CAP theorem.
- Gain an understanding of the physical database design process, its objectives and deliverables.
- Design and implement a database system



Calendar Semester 2

2019		S	M	T	W	T	F	S	Modules
Semester 2									
September		1	2	3	4	5	6	7	comp sys & database
		2	8	9	10	11	12	13	comp sys & database
		3	15	16	17	18	19	20	comp sys & database
		4	22	23	24	25	26	27	comp sys & database
October	reading-week	29	30	1	2	3	4	5	
		5	6	7	8	9	10	11	12
		6	13	14	15	16	17	18	comp sys & database
		7	19	21	22	23	24	25	comp sys & database
November		8	27	28	29	30	31	1	2
		reading-week	3	4	5	6	7	8	9
		9	10	11	12	13	14	15	16
		10	17	18	19	20	21	22	comp sys & database
December		11	24	25	26	27	28	29	30
		12	1	2	3	4	5	6	7
		8	9	10	11	12	13	14	Onsite (12th) + Exams (13th)
		15	16	17	18	19	20	21	

Computer
Systems &
Networks



Database



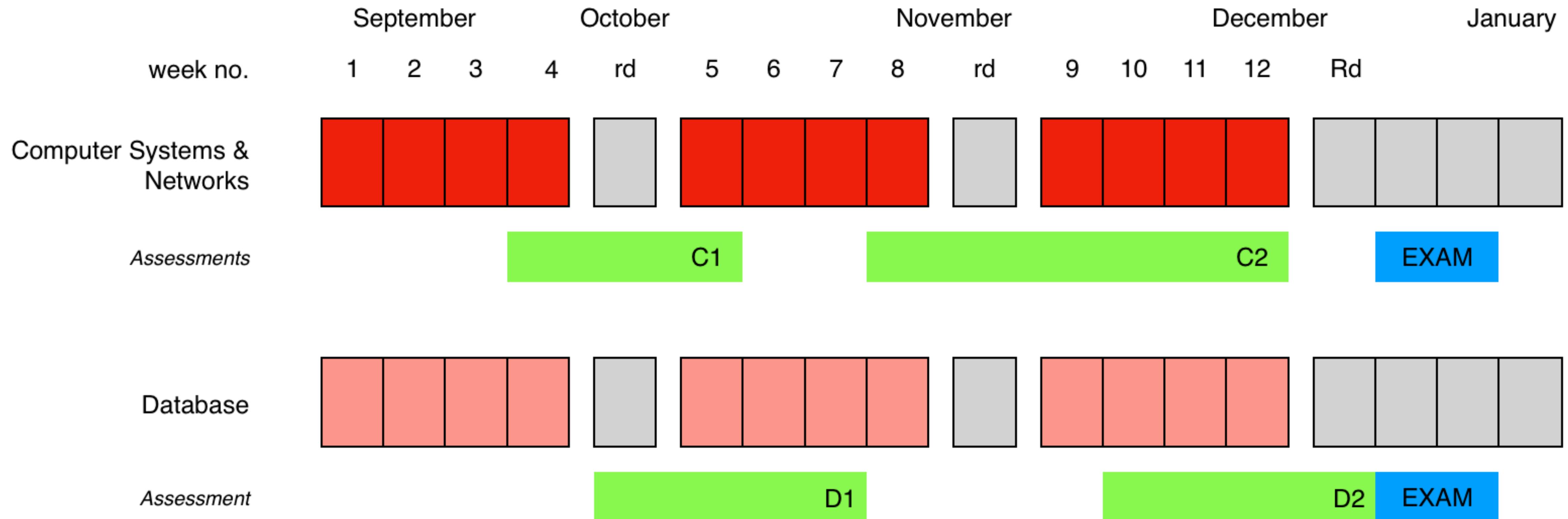
entities · tables · rows · sql ·
er · nosql

5 Credits

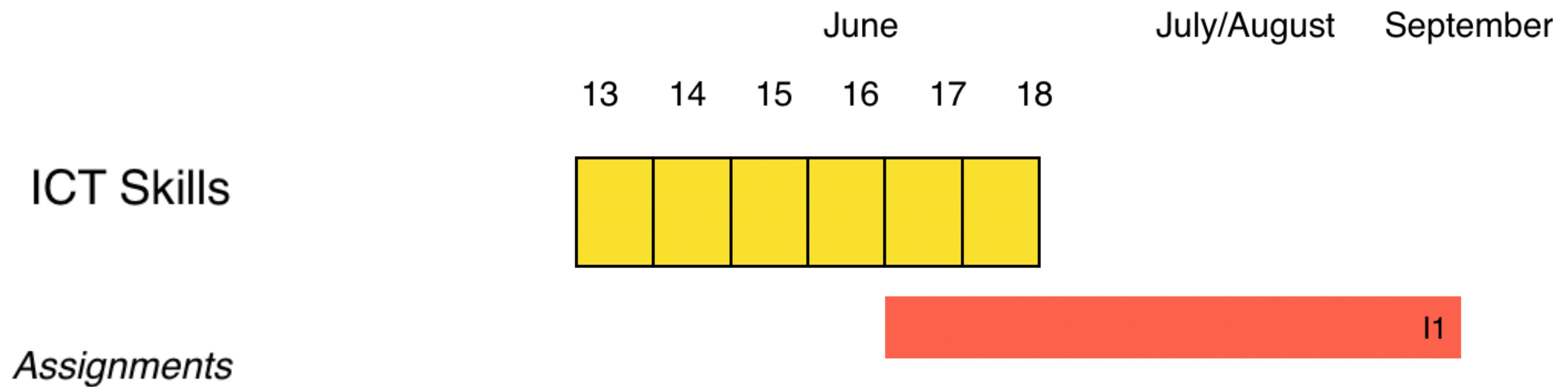
logic · computer
organisation · os · networks ·
interfaces · sensors ·

10 Credits

Draft Assignment Schedule - Semester 2



Assignment Schedule - ICT Skills



Draft Weekly Timetable Semester 2

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:45				10:45
12:15 Computer Systems <i>Webinar</i> 12:15-2:00	12:15 Computer Systems <i>Webinar</i> 12:15-2:00	12:15 Database <i>Webinar</i> 12:15-2:00		12:15
2:00				13:45

+ Lab Support via  slack

Placement - who, what, where, when, how?

Work placement is a temporary job in an organisation that is intended to give a trainee experience of the job they are training for..

- **Three groupings - HDIP class:**

1. Working in non Tech roles.
2. Working in Tech role and wish to change to a different role in same organisation for placement.
3. Working in a Tech role and intend to remain in same role.

- **Your questions answered:**

1. When is the work placement period?
2. Who are the employers and other stakeholders?
3. Placement process (before, during and after)?
4. Assessment/ grading?



Placement/Project Options

June 2020- December 2020

Undertake a 4-6 month placement in an ICT Environment and complete project based on your placement or your own topic

OR

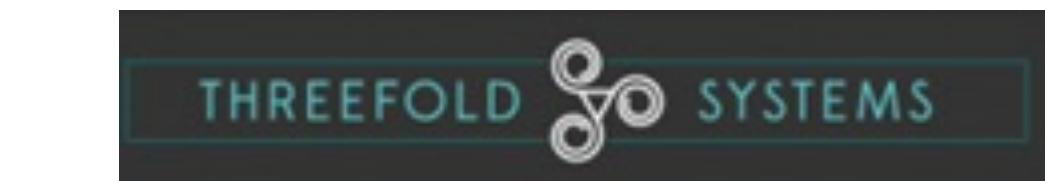
Continue working in your own organisation and complete an ICT-based Work Project

WIT Employer partners?

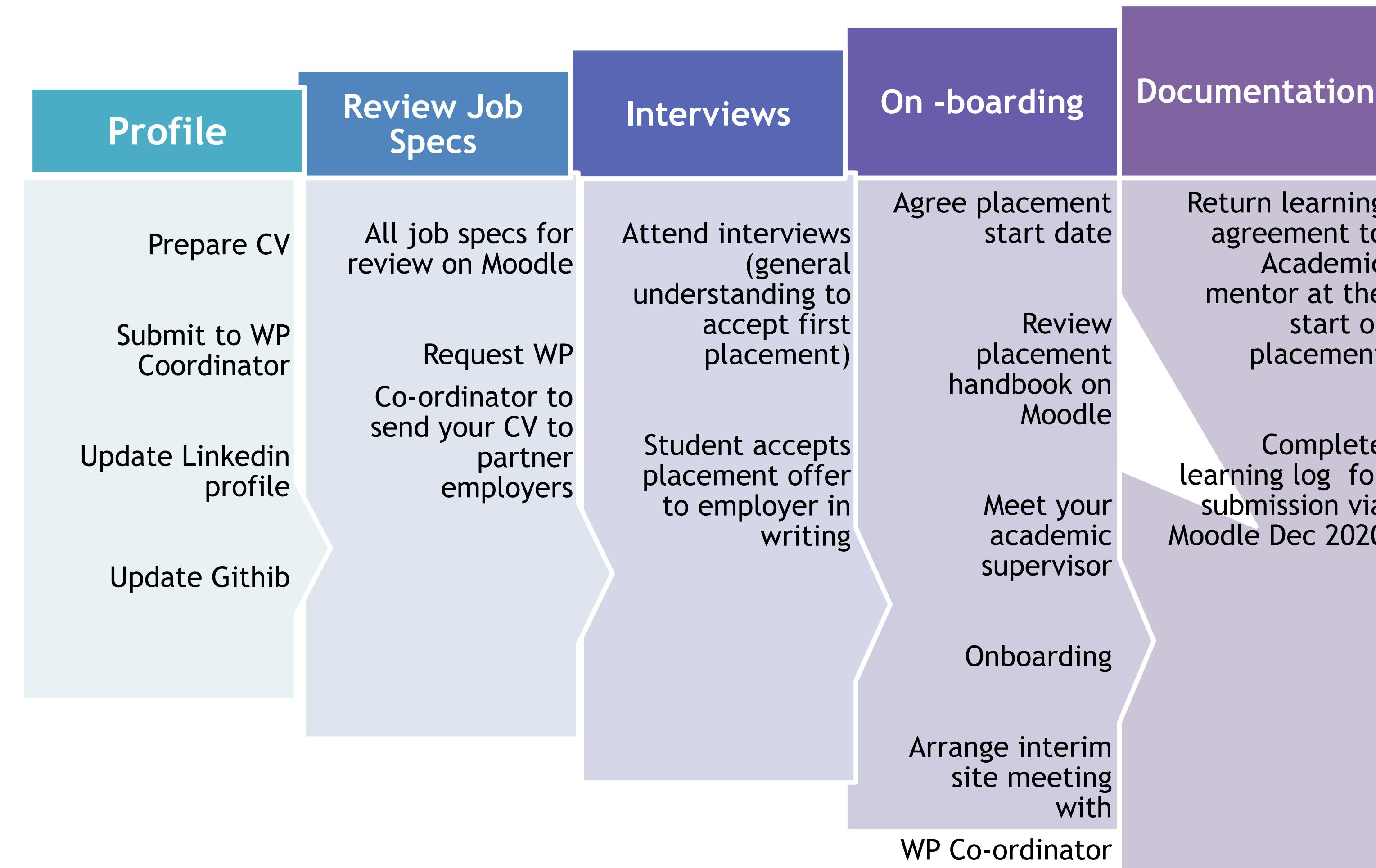
RESOURCES:

- <https://crystalvalley.io/>

CVT is a Tech community with over 100 com SE region



Placement Process



Assessment Methods

100% Continuous Assessment

- Final Project
- Presentation

Notes:

- Successful projects will not of course be required to reach commercial grade - but may demonstrate useful prototypes (partially functional). For some partners/students, a research paper, new business process or innovative method may also be appropriate;
- **Also, an employer approval declaration may be required with the final project assignment submission**

Questions?