

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

14.00	<b>GIT Workshop Redhat</b> 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

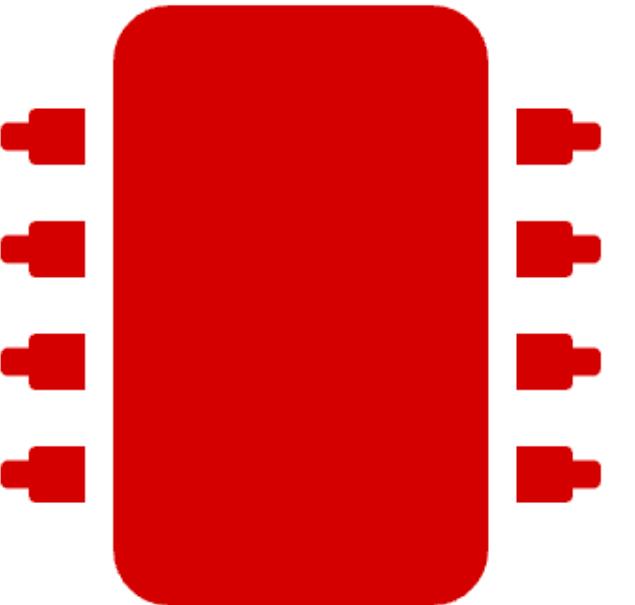
Employer Partners Panel  
Discussion

## Agenda

9:00	Welcome, Agenda + Work Placement Overview  Eamonn de Leastar, Colm Dunphy, Martina Mullally	Semester 2 Preview
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- Semester 2 Modules
- Semester 2 Calendar (Draft)
- Work Placement

## Computer Systems & Networks



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

10 Credits

## Databases

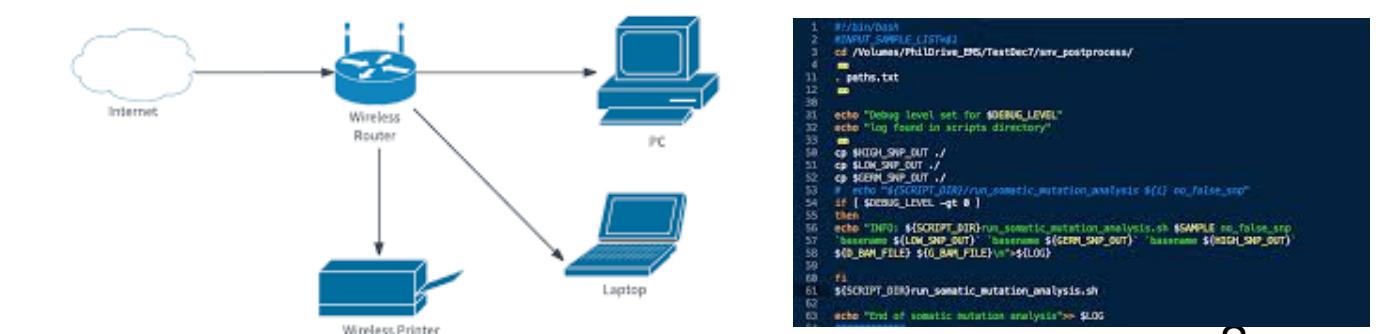


entities · tables · rows · sql · er ·  
nosql

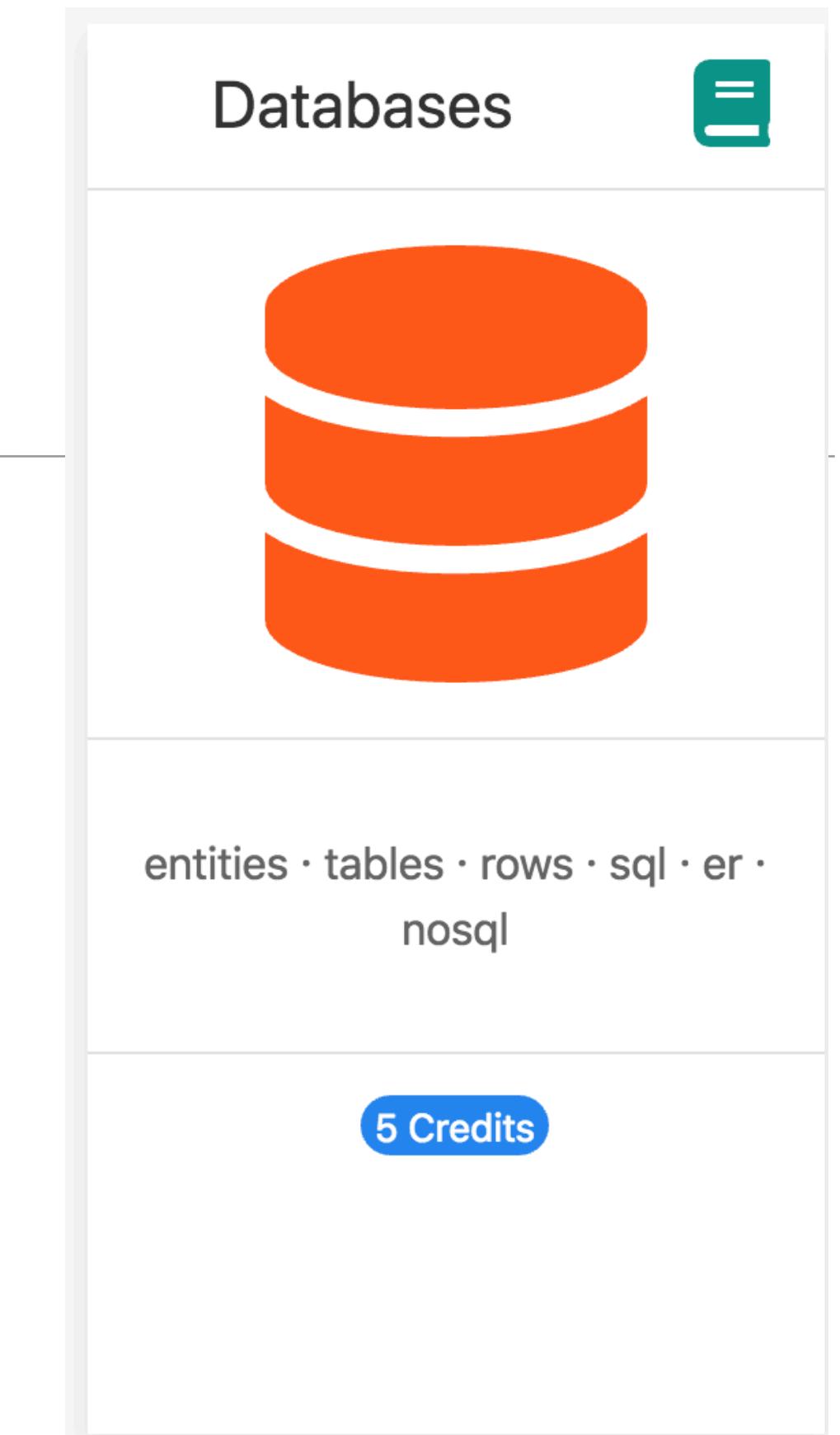
5 Credits

- 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'.



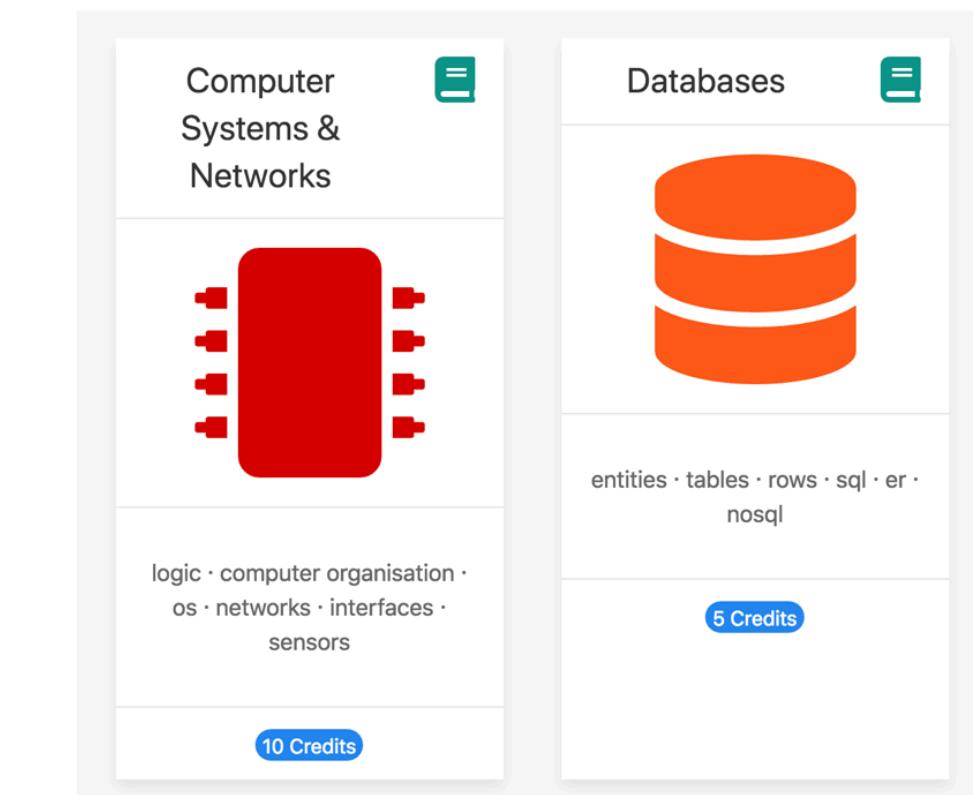
- Discuss the role of a database and its management system.
- Draw Entity Relationship (ER) diagram from an application problem and reproduce this diagram into a set of normalised relations, which are ready for database implementation.
- Design a NoSQL database suitable for a distributed environment 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



# Draft Calendar Semester 2

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

2018 | Onsite Sessions  
13-14 | 01/12/2018 (including mandatory examinations)



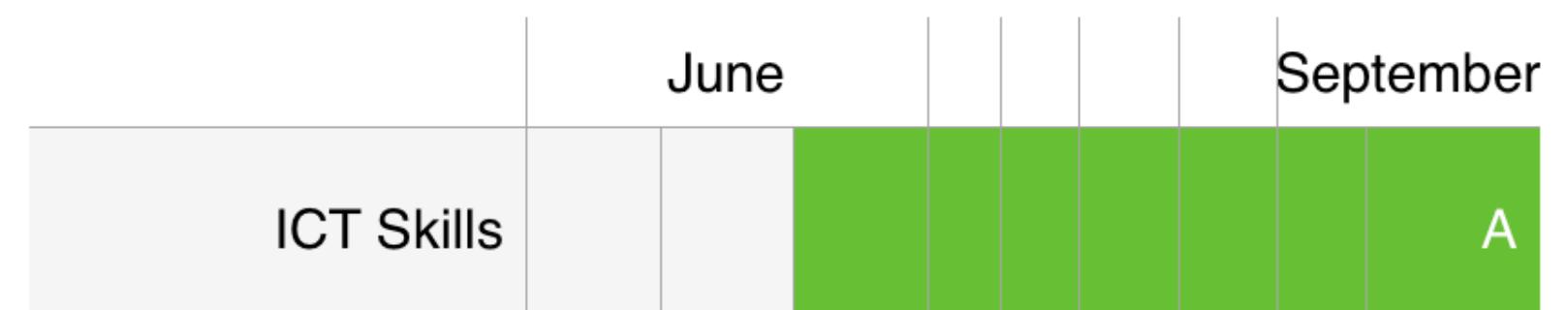
# Draft Weekly Timetable Semester 2

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

+ Lab Support via  slack \*

\* (9 hours live slack support)

# Assignment Schedule - ICT Skills



ICT Skills	A	spec:	11-Jun
		submit:	2-Sep

# Draft Assignment Schedule - Semester 2

	September					October				November				December		
week no.	1	2	3	4	reading	5	6	7	8	reading	9	10	11	12	reading	
Computer Systems & Networks						A1								A2	exam	
Database												A1			exam	

									Weighting	
Computer Systems					A1	spec:	23 Sep			
						submit:	14-Oct	35%		
					A2	spec:	21 Oct			
						submit:	9 Dec	40%		
						exam:	13-Dec	25%		
Database					A1	spec:	14-Oct			
						submit:	25 Nov	50%		
						exam:	13-Dec	50%		

# Work Placement

- What is the work placement module entails ?
- When is the work placement period?
- Who are the employers and other stakeholders?
- Where are placement located?
- What is the placement process (before, during and after)?
- What is the assessment method?

# Placement/Project Options

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

OR

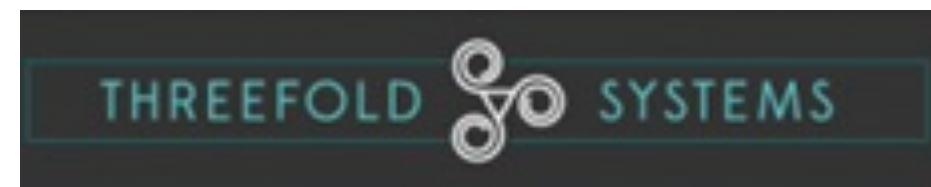
Undertake a 4-6  
month placement in  
an ICT Environment  
and complete project  
based on your  
placement or your  
own topic



# Work Placement period?

- **June 2019 - December 2019 - 6 months** (student will spend a minimum period of 4 months in an ICT/ Software Development role.
- As placement is scheduled at the end of the programme (semester 4), there is a possibility of staying on with the company.

# Employers?



- IT companies (most SME's)
- Generally companies are based in the Waterford /SE area.
- Other stakeholders; Springboard, local enterprise organisations, lecturers, work colleagues, follow on placement students

ERRIGAL



DoneDeal



TSSG



DATAWORKS<sup>®</sup>  
redefining possibilities



Sunlife  
Financial



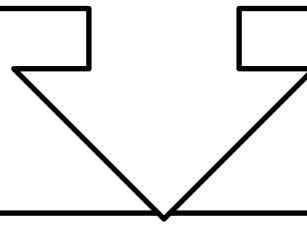
Datapac

# Pre-Placement Process

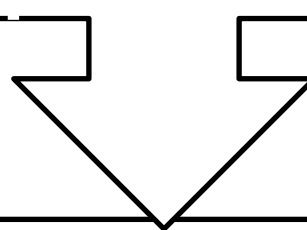
- 1. Employer **Contacts** WIT to discuss their requirements/ Placement Coordinator builds potential employers
- 2. Student submits **CV and Expression of Interest** to WIT Placement Coordinator. Updates Profile.
- 3. Employer submits **Job Specification** to WIT and placement coordinator **advertises on Moodle**.
- 4. Student discusses **interests and aspirations** with Placement Coordinator (individual sessions).

# Pre-Placement Process (ctd.)

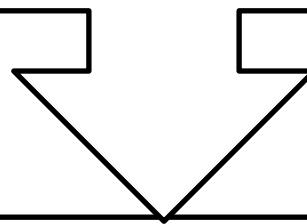
•5. Work Placement Coordinator **reviews CV's** and forwards relevant & suitable CV's to Employers



•6. **Interview & Select:** The placement coordinator contacts students and arranges interviews. All offers will be made via the placement coordinator



•7. Student assigned a **WIT Mentor** and **Work Placement Supervisor**



8. **Student/Employer Handbook** will be circulated to both parties.

# Sourcing Your Own Placement

Prepare and forward the detail of your role(s) - this should be a short job description including the following:

- Company Name
- About Us (Company Profile)
- Location
- Job Title
- Job Description & Duties
- Min skills Required/Preferred
- Hours of Work
- Level of Supervision provided to the Student
- Pay rate if paid



# During Placement



- Meet with workplace mentor
- Return of contact sheet to placement co-ordinator end of week 1
- Project draft submission
- Completion of weekly Learning log
- Meet with work placement coordinator on site (placement visit)

# During Placement



- **Professionalism?**  
Commitment, responsiveness, teamwork, communication, time management, respect.
- **Responsibilities?**  
Confidentiality (IP), data protection
- **Be open-minded to new experiences!**  
engagement, reflection, critical thinking
- **Enjoy your placement!**

# End of Placement



- Submit Project and weekly learning log
- Project presentation
- Update CV and LinkedIn profile
- Review WIT Careers webpages
- WIT coordinator gains employer feedback on placement process/programme design
- Assessment grade (P/F ) processed through WIT exam boards
- Final award advised to student and Graduation!

# 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