

ICT Skills / June Onsite

June 2-day onsite objectives

Preview and Prepare for
Semester 2

Semester 2 Preview

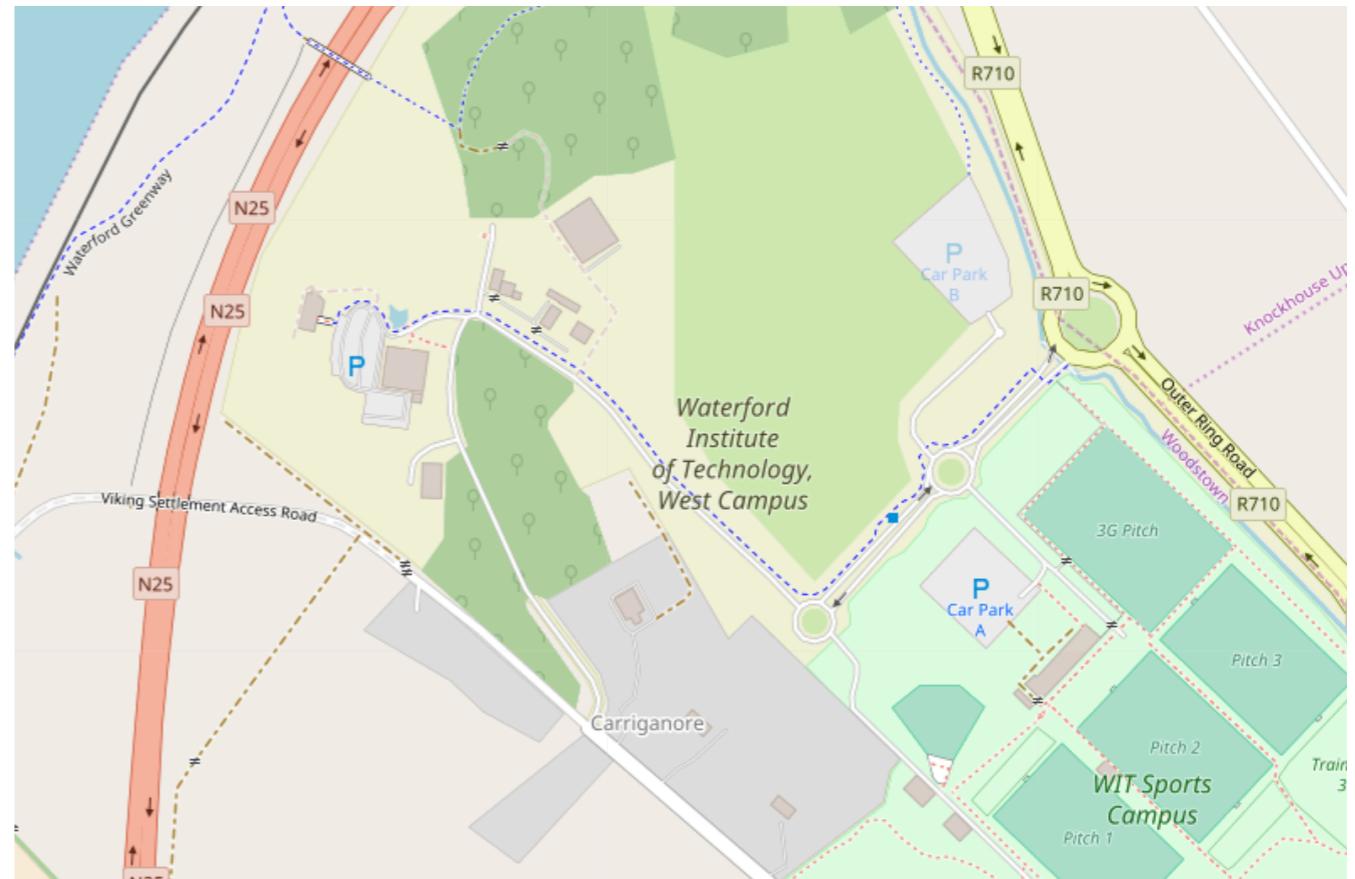
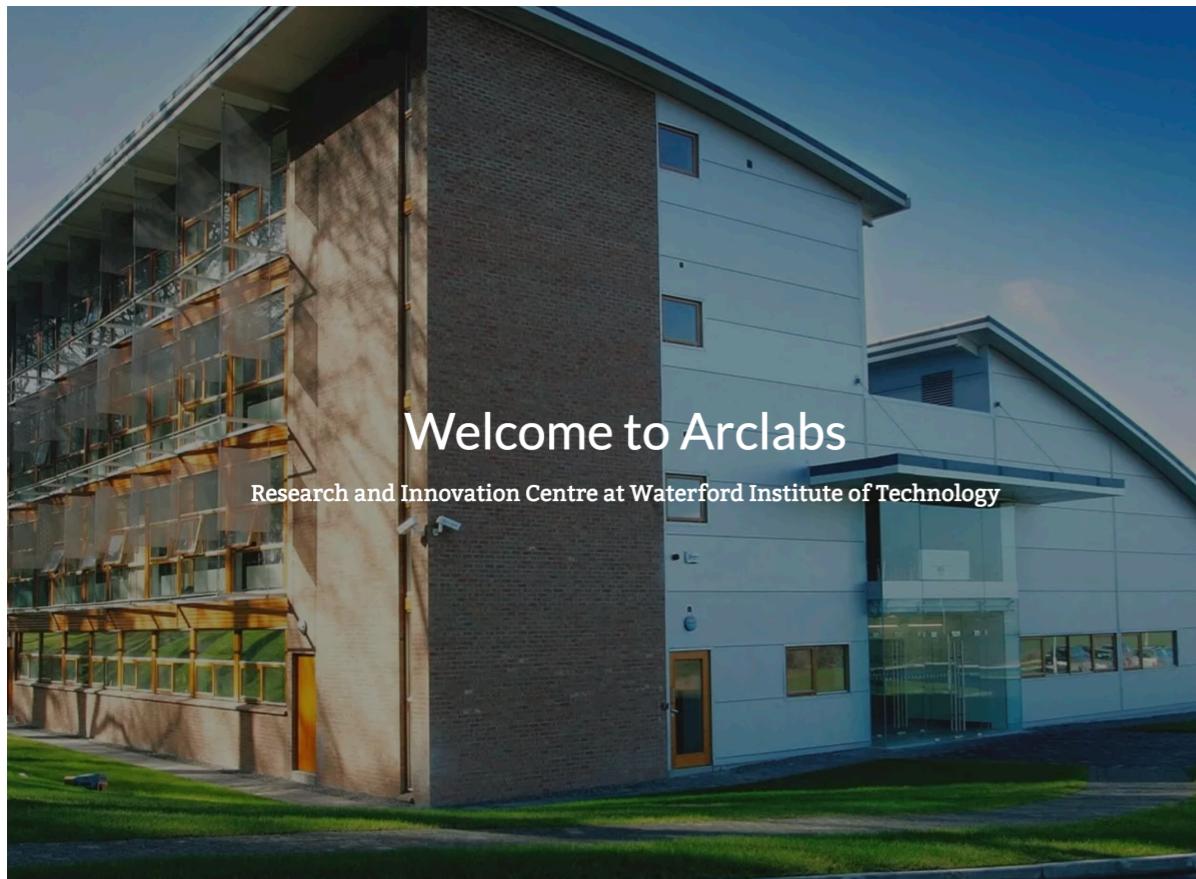
Learn about Placement
opportunities from our Industry
Partners

Industry Partner Talks

May	12	29	30	1	2	3	4	5	prog & web
reading-weeks	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	1	20	21	22	23	24	25	26	ict skils
June	2	27	28	29	30	31	1	2	ict skils
	3	3	4	5	6	7	8	9	ict skils
	4	10	11	12	13	14	15	16	ict skils
	5	17	18	19	20	21	22	23	ict skils
	6	24	25	26	27	28	29	30	

June 14th
& 14th

Location



<http://www.arclabs.ie>

Agenda Thursday 14th

9:00	Welcome, Agenda + Work Placement Overview Eamonn de Leastar, Colm Dunphy, Martina Mullally	Semester 2 Preview		
9:30	 CRYSTAL VALLEY PROUDLY CRAFTING TECHNOLOGY	Industry Partner Talk		
10:00	Computer Systems & Networks Workshop I Frank Walsh, Caroline Cahill	Semester 2 Preview	13:00	Lunch
11:00	Coffee Break			
11:30	Computer Systems & Networks Workshop II Frank Walsh, Caroline Cahill	Semester 2 Preview		
			14:00	 cgm Telecom Strategy Development
			14:30	 DATAWORKS® redefining possibilities
			15:00	Coffee Break
			15:30	 Fund Recs
			16:00	 ERRIGAL
			17:00	

Agenda Friday 15th

9:00	Database Rosanne Birney, Mary Lyng	Semester 2 Preview	14:00 Git Workshop 
11:00		Industry Partner Talk	15:00 Coffee Break Semester 2 Preview 15:30 Git Workshop 
11:30	Coffee Break	13:00 Lunch	17:00
12:00		Industry Partner Talks	
12:30			

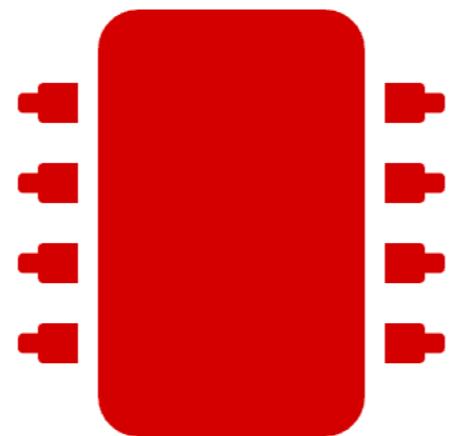
Agenda

9:00 Welcome, Agenda +
Work Placement
Overview
Eamonn de Leastar, Colm
Dunphy, Martina Mullally

Semester 2
Preview

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

Computer Systems & Networks



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

10 Credits

Databases

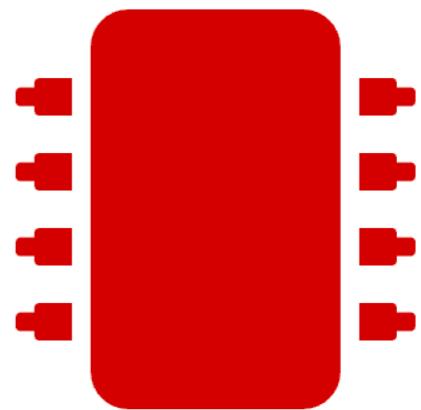


entities · tables · rows · sql · er ·
nosql

5 Credits

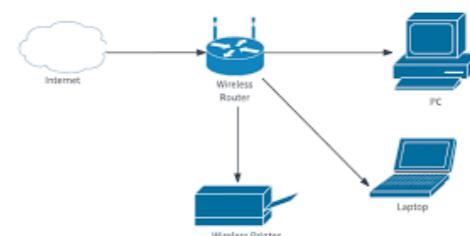
- Identify and explain the role various hardware components play in a computer system.
 - Use an operating system on a chosen computer architecture.
 - Demonstrate an ability to configure systems using the command line.
 - Describe the memory management, process management and file management components 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.

Computer Systems & Networks



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

10 Credits



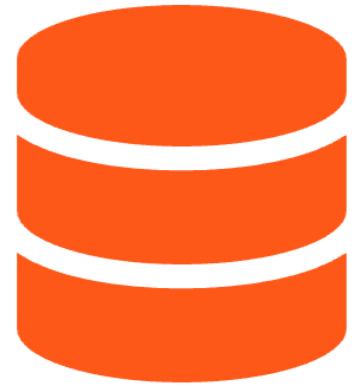
```

1 #!/bin/bash
2
3 #-----#
4 #-----#
5 cd $(Volume_Philippe_BMO/TestBect/avr_psoprocess/
6 #
7 psotho.txt
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59 cp MIGR8_SPP_OUT ./
```

Databases



- 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



entities · tables · rows · sql · er ·
nosql

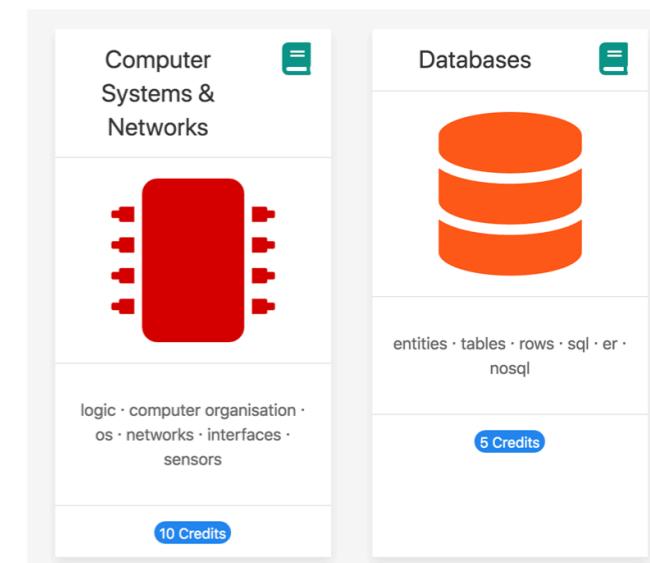
5 Credits



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)



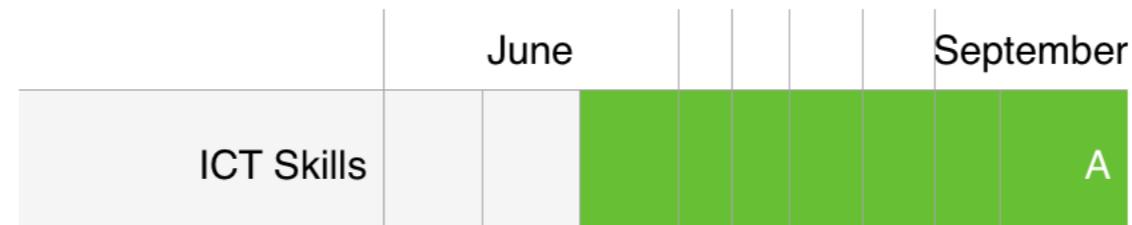
Draft Weekly Timetable Semester 2

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

* (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 (mostly 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

SE2⁺



DoneDeal

DATAWORKS[®]
redefining possibilities



Sunlife
Financial



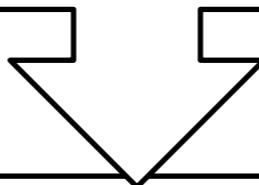
TSSG



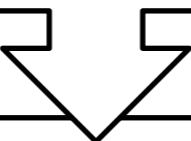
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Pre-Placement Process

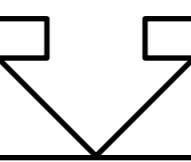
- 1. Employer **Contacts** WIT to discuss their requirements/ Placement Coordinator builds relationships with potential employers



- 2. Student submits **CV and Expression of Interest** to WIT Placement Coordinator. Update LinkedIn 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**