

ICT Skills / June Onsite

June 2-day onsite objectives

Preview and Prepare for
Semester 2

Semester 2 Preview

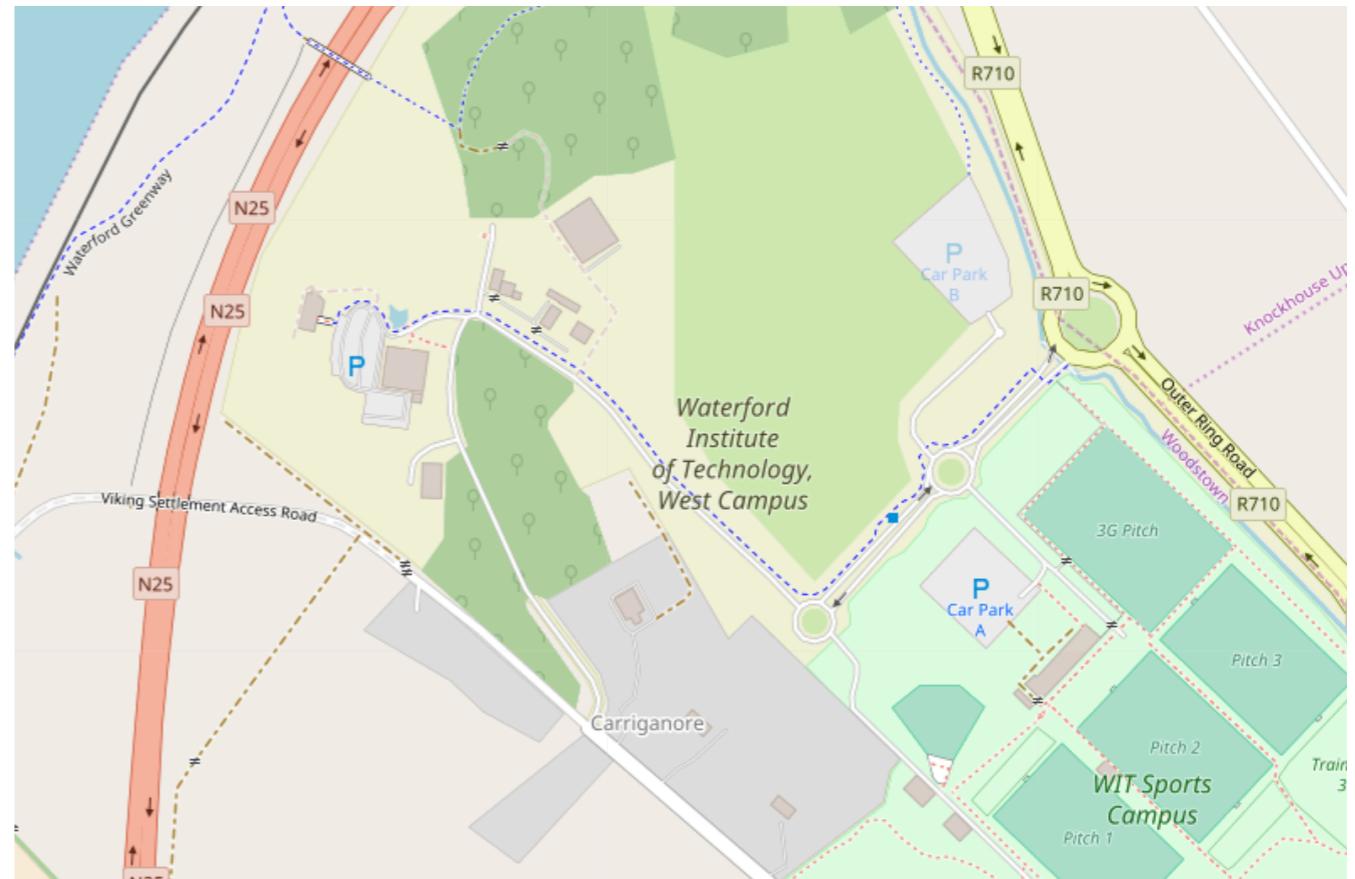
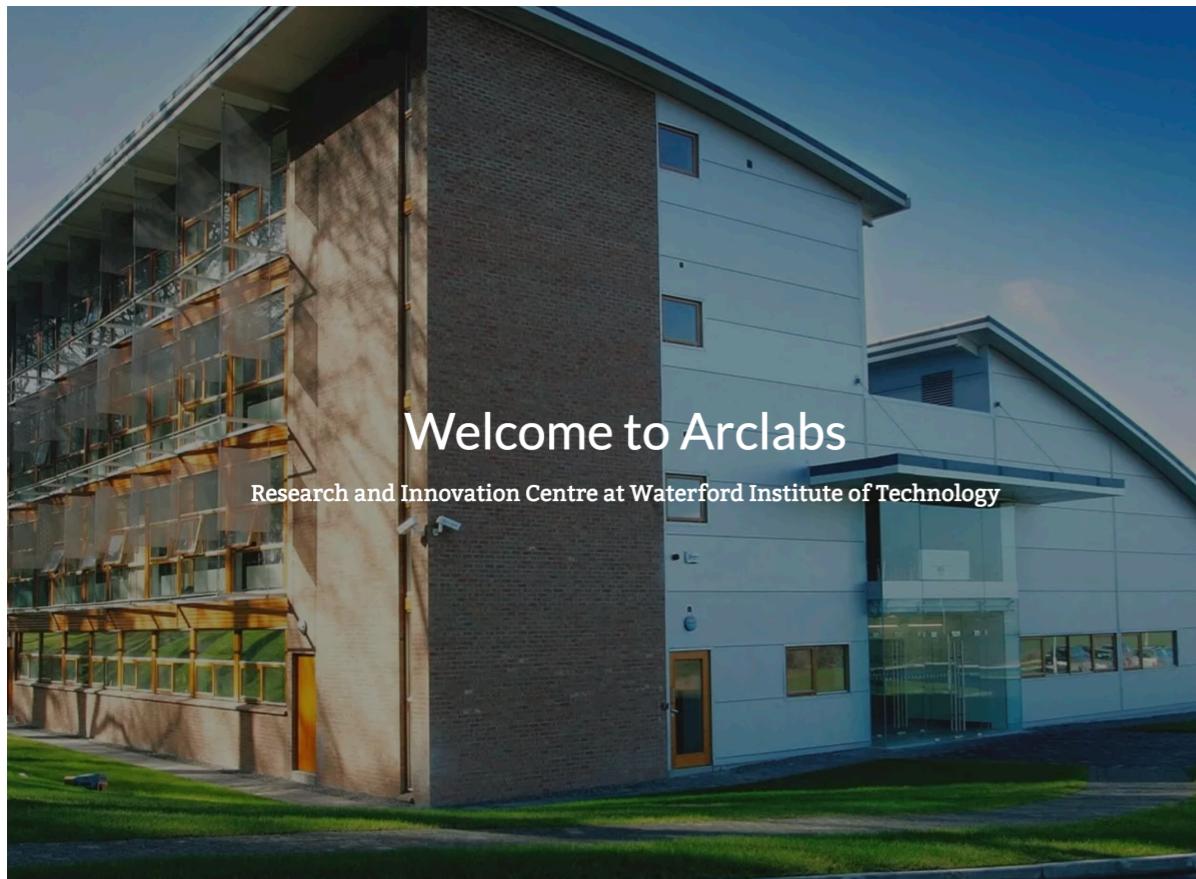
Learn about Placement
opportunities from our Industry
Partners

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
11:30	Coffee Break	13:00 Lunch	15:30 Git Workshop 
12:00		Industry Partner Talks	17:00
12:30			

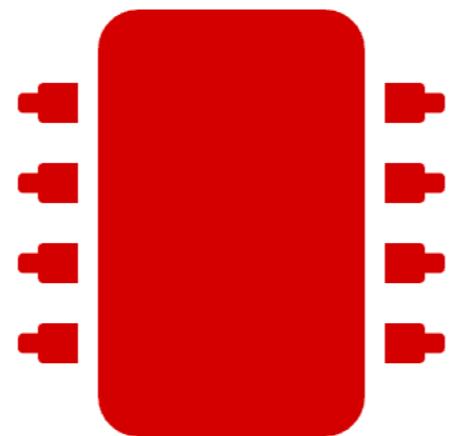
Agenda

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

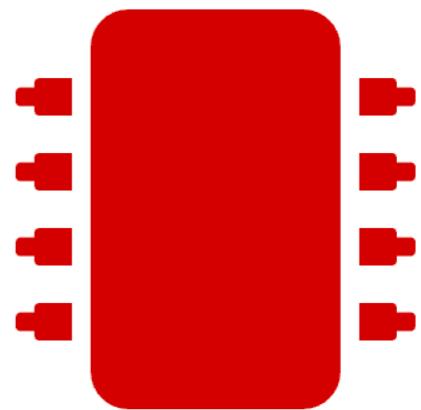


entities · tables · rows · sql · er ·
nosql

5 Credits

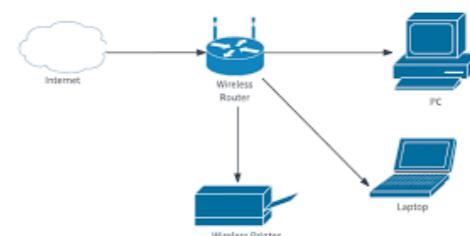
- Identify and explain the role various hardware components play in a computer system.
 - Use an operating system on a chosen computer architecture.
 - Demonstrate an ability to configure systems using the command line.
 - Describe the memory management, process management and file management components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

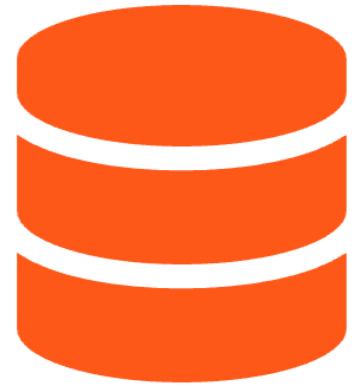
10 Credits



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

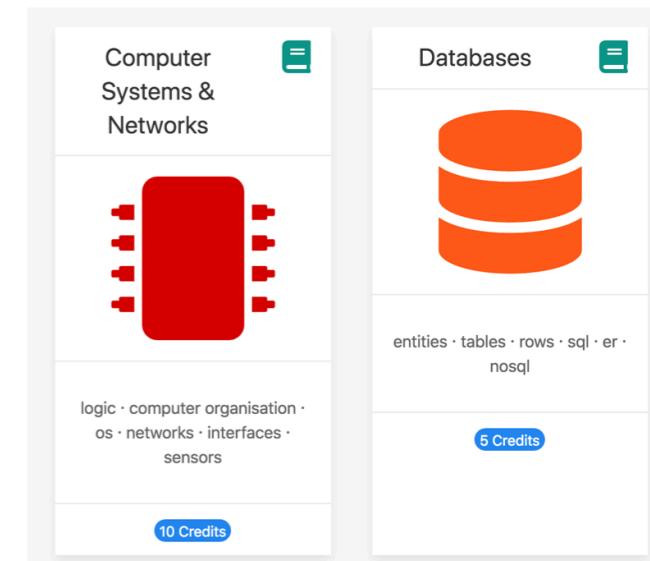
5 Credits



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)



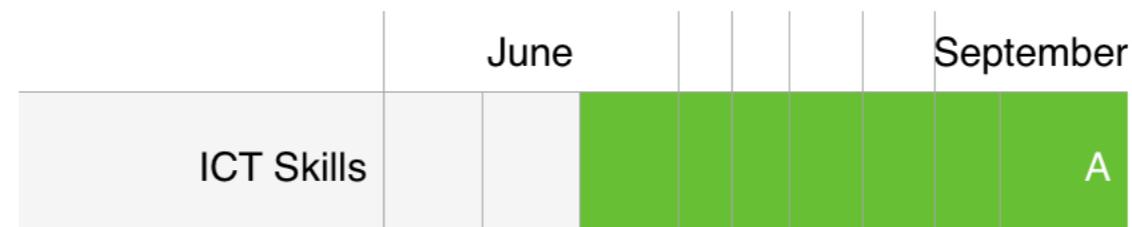
Weekly Timetable Semester 2

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

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	25%	
	A2	spec:	21 Oct		
		submit:	25 Nov	50%	
		exam:	13-Dec	25%	
Database	A1	spec:	14-Oct		
		submit:	1 Dec	50%	
		exam:	13-Dec	50%	

Work Placement