

DP Computer Science :: Lesson mapping :: 2025-2027

Week of	Lesson 1	Lesson 2	Lesson 3	Lesson 4
11 August	B2 Programming	B2 Programming	B2 Programming	B2 Programming
	Hello world	Numeric types	String types	Exceptions & debug
18 August	B2 Programming	B2 Programming	B2 Programming	
	Static / dynamic	Arrays / lists	Stacks	
25 August	B2 Programming	B2 Programming	B2 Programming	B2 Programming
	Queues	Sequence / selection	Repetition	Repetition
1 September	B2 Programming	B2 Programming	B2 Programming	
	Functions	Big O	Search alg	
8 September	B2 Programming	B2 Programming	B2 Programming	B2 Programming
	Search alg	Sort alg	Sort al	Recursion
15 September	B2 Programming	B2 Programming	B2 Programming	
	Recursion	Recursion	Files	
22 September	B2 Programming	B2 Programming	B2 Programming	B2 Programming
	Practice	Practice	Practice	Practice
29 September	B2 Programming	B2 Programming	B2 Programming	
	Review	Review	Assessment	
6 October				
13 October	B1 Comp. Thinking	B1 Comp. Thinking	B1 Comp. Thinking	B1 Comp. Thinking
	Problem spec	Concepts & applic	Trace flowcharts	Review
20 October	B3 OOP	B3 OOP	B3 OOP	
	Introducing	Design classes	Instantiating	
27 October	B3 OOP	B3 OOP	B3 OOP	B3 OOP
	Encapsulation	Static / non-static	OOP exercises	OOP exercises
3 November	B3 OOP	B3 OOP	B3 OOP	
	OOP exercises	Inheritance	Polymorphism	
10 November	EXPLORER WEEK			
17 November	B3 OOP	B3 OOP	B3 OOP	B3 OOP
	Abstract classes	Composition / aggr	Design patterns	OOP exercises
24 November	B3 OOP	B3 OOP	B3 OOP	
	OOP exercises	OOP exercises	OOP exercises	
1 December	B3 OOP	B3 OOP	B3 OOP	BUFFER
	Review	Review	Assessment	
8 December	BUFFER	BUFFER	BUFFER	
15 December				
22 December				
29 December				

5 January	B4 ADT	B4 ADT	B4 ADT	B4 ADT
	Intro	Linked lists	Linked lists	Linked lists
12 January	B4 ADT	B4 ADT	B4 ADT	
	Binary search trees	Binary search trees	Binary search trees	
19 January	B4 ADT	B4 ADT	B4 ADT	B4 ADT
	Sets	Sets	Sets	Hashmaps
26 January	B4 ADT	B4 ADT	B4 ADT	
	Hashmaps	Hashmaps	Exercises	
2 February	B4 ADT	B4 ADT	B4 ADT	B4 ADT
	Exercises	Exercises	Review	Review
9 February	B4 ADT	B4 ADT	BUFFER	
	Review	Assessment		
16 February				
23 February	A3 DATABASES	A3 DATABASES	A3 DATABASES	A3 DATABASES
	Fundamentals	Schemas and types	ERD	Normalisation
2 March	A3 DATABASES	A3 DATABASES	A3 DATABASES	
	3NF	Intro SQL	SQL joins	
9 March	A3 DATABASES	A3 DATABASES	A3 DATABASES	A3 DATABASES
	SQL update, insert	SQL aggregate	SQL views	SQL transactions
16 March	A3 DATABASES	A3 DATABASES	A3 DATABASES	
	NoSQL, Warehouse	Mining, Distributed	SQL practical	
23 March	A3 DATABASES	A3 DATABASES	BUFFER	BUFFER
	Review	Assessment		
30 March				
6 April				
13 April	Y12 EXAMS			
20 April	IA	IA	IA	
	Overview	Proposal	A: Scenario & context	
27 April	IA	IA	IA	IA
	A: Success criteria	B: Decomposition	B: Planning	C: UX diagram
4 May	IA	IA	IA	
	C: Flowcharts	C: UML	C: Test plan	
11 May	IA	IA	IA	IA
	C: Other diagrams	C: Other diagrams	Programming	Programming
18 May	IA	IA	IA	
	Programming	Programming	Programming	
25 May	IA	IA	IA	IA
	Programming	Programming	Programming	Programming
1 June	IA	IA	IA	
	Programming	Programming	Programming	
8 June	IA	IA	IA	IA
	Programming	Programming	Programming	Programming
15 June	IA	IA	BUFFER	
	Programming	Programming		
22 June	BUFFER	BUFFER	BUFFER	BUFFER

29 June				
6 July		DURING SUMMER		
13 July		Complete programming the IA		
20 July		Produce and submit: Draft D & E		
27 July				
3 August				
10 August	A1 COMP.FUND.	A1 COMP.FUND.	A1 COMP.FUND.	
	CPU components	Prim/Sec memory	Fetch/decode/exe	
17 August	A1 COMP.FUND.	A1 COMP.FUND.	A1 COMP.FUND.	A1 COMP.FUND.
	GPU	Pipelining	Compression	Cloud
24 August	A1 COMP.FUND.	A1 COMP.FUND.	A1 COMP.FUND.	
	Binary	Binary	Boolean	
31 August	A1 COMP.FUND.	A1 COMP.FUND.	A1 COMP.FUND.	A1 COMP.FUND.
	Boolean	Boolean	Boolean	OS
7 September	A1 COMP.FUND.	A1 COMP.FUND.	A1 COMP.FUND.	
	OS	OS	Control	
14 September	A1 COMP.FUND.	A1 COMP.FUND.	A1 COMP.FUND.	A1 COMP.FUND.
	Control	Translation	Practice	Assessment
21 September	A4 M/LEARNING	A4 M/LEARNING	A4 M/LEARNING	
	Types of ML	ML hardware	Pre-processing	
28 September	A4 M/LEARNING	A4 M/LEARNING	A4 M/LEARNING	A4 M/LEARNING
	Linear regression	Classification	Hyper parameters	Clustering
5 October				
12 October	A4 M/LEARNING	A4 M/LEARNING	A4 M/LEARNING	
	Assoc rule	Reinforcement learn	Genetic algs	
19 October	A4 M/LEARNING	A4 M/LEARNING	A4 M/LEARNING	A4 M/LEARNING
	ANN	ANN	CNN	CNN
26 October	A4 M/LEARNING	A4 M/LEARNING	A4 M/LEARNING	
	Selecting ML	Ethics	Ethics	
2 November	A4 M/LEARNING	A2 NETWORKS	A2 NETWORKS	A2 NETWORKS
	Assessment	Types	Devices/media	Topologies etc
9 November	EXPLORER WEEK			
16 November	A2 NETWORKS	A2 NETWORKS	A2 NETWORKS	
	Protocols	TCP/IP	Servers	
23 November	A2 NETWORKS	A2 NETWORKS	A2 NETWORKS	A2 NETWORKS
	Practical	IPv4 / IPv6	Switching & routing	Firewalls
30 November	A2 NETWORKS	A2 NETWORKS	A2 NETWORKS	
	Vulnerabilities	Countermeasures	Encryption	
7 December	A2 NETWORKS	A2 NETWORKS	A2 NETWORKS	BUFFER
	Practical	Review	Assessment	

14 December				
21 December				
28 December				
4 January	Y13 MOCK EXAMS			
11 January	Y13 MOCK EXAMS			
18 January	CASE STUDY	CASE STUDY	CASE STUDY	
25 January	CASE STUDY	CASE STUDY	CASE STUDY	CASE STUDY
1 February	CASE STUDY	CASE STUDY	CASE STUDY	
8 February				
15 February	CASE STUDY	CASE STUDY	CASE STUDY	CASE STUDY
22 February	CASE STUDY	CASE STUDY	CASE STUDY	
1 March	CASE STUDY	CASE STUDY	CASE STUDY	CASE STUDY
8 March	CASE STUDY	CASE STUDY	CASE STUDY	
15 March	REVIEW	REVIEW	REVIEW	REVIEW
22 March	REVIEW	REVIEW	REVIEW	
29 March				
5 April				
12 April	IB EXAMS			
19 April				