				Lesson Slot					
Week of Teaching	Week of AY	2020/2022 (Approx)	2021/2023 (Approx)	A	B	C	D	E	HW1
1	1	31 Aug 2020	30 Aug 2021						
2	2	7 Sep 2020	6 Sep 2021	Baseline	Baseline	Course Intro 0.x	Introduction to Netbeans 2.2.1.e	Structure of a Java Program 2.2.1	DPA / GDPR 0.5.1.a
3	3	14 Sep 2020	13 Sep 2021	Assessment Review	Assessment Review	IDPS and What is a Computer? 1.1.3.a	Primitive Data Types 1.4.1.e	Java Programming I: Console Output 2.2.1.a	
4	4	21 Sep 2020	20 Sep 2021	IDPS and What is a Computer? 1.1.3.a	Types of Computer 1.x	External Peripherals and Internal Components of a Computer 1.1.3.a	Java Programming I: Console Output 2.2.1.a	Java Programming I: Variables and Expressions 2.2.1.a	DPA Act 0.5.1.d
5	5	28 Sep 2020	27 Sep 2021	External Peripherals and Internal Components of a Computer 1.1.3.a	Basics and Types of Primary Storage 1.1.3.c	Mini-Assessment	Java Programming I: Variables and Expressions 2.2.1.a	Java Programming I: Console Input 2.2.1.a	
6	6	5 Oct 2020	4 Oct 2021	Secondary Storage 1.1.3.b	Secondary Storage 1.1.3.b	Exotic Secondary Storage 1.1.3.d	Java Programming I: Console Input 2.2.1.a	Java Programming I: Selection 2.2.1.a	C-P Act 0.5.1.c
7	7	12 Oct 2020	11 Oct 2021	Sensors 1.1.3.a	Choice of IDPS device 1.1.3.a	Choice of IDPS device 1.1.3.a	Java Programming I: Selection 2.2.1.a	Programming Practical	
8	8	19 Oct 2020	18 Oct 2021	How the Components of a Computer Execute a Program 1.1.x	How the Components of a Computer Execute a Program 1.1.x	Primary Storage: Types and Basic Memory Addresses 1.1.3.c	Contingency	Contingency	CMA 0.5.1.b
	9	26 Oct 2020	25 Oct 2021	October Break – Year 12					
9	10	2 Nov 2020	1 Nov 2021	Assessment	Assessment	Data Representation: Unsigned Integers 1.4.1.b+e+f	Programming Practical 3.x	Programming Practical 3.x	
10	11	9 Nov 2020	8 Nov 2021	Data Representation: Unsigned Integers 1.4.1.b+e+f	Data Representation: Text 1.4.1.j	Data Representation: Signed Integers 1.4.1.c	Java Programming I: Iteration 2.2.1.a	Java Programming I: Iteration 2.2.1.a	Computers in the workforce 0.5.2
11	12	16 Nov 2020	15 Nov 2021	Assessment Review	Assessment Review	Data Representation: Signed Integers 1.4.1.c	Trace Tables 1.2.3.c	Functions and Procedures 2.2.1.d	
12	13	23 Nov 2020	22 Nov 2021	Binary Integer Addition and Subtraction 1.4.1.d	Data Representation: Fixed and Floating Point 1.4.1.g	Mini-Assessment	Functions and Procedures 2.2.1.d	Variable Scope 2.2.1.c	Automated decision making 0.5.2
13	14	30 Nov 2020	29 Nov 2021	Data Representation: Fixed and Floating Point 1.4.1.g	Binary Floating Point Addition and Subtraction 1.4.1.h	Binary Floating Point Addition and Subtraction 1.4.1.h	Modules 2.2.1.d	Modules 2.2.1.d	
14	15	7 Dec 2020	6 Dec 2021	Measuring Complexity 2.3.1.b+c+d	Measuring Complexity 2.3.1.b+c+d	Arrays 1.4.2.a+c	Contingency	Programming Practical	Artificial intelligence 0.5.2
15	16	14 Dec 2020	13 Dec 2021	Stacks and Queues 2.3.1.e,1.4.2.b+c	Stacks and Queues 2.3.1.e,1.4.2.b+c	Data Representation: Graphics and Colour 1.4.1.x	Contingency	Contingency	
	17	21 Dec 2020	20 Dec 2021	Christmas Break – Year 12					
	18	28 Dec 2020	27 Dec 2021						
16	19	4 Jan 2021	3 Jan 2022	Assessment	Assessment	Data Representation: Overall 1.4.1.x	Writing Programs in LMC Machine Code and Assembly Language 1.2.4.c	Writing Programs in LMC Machine Code and Assembly Language 1.2.4.c	Environmental effects 0.5.2
17	20	11 Jan 2021	10 Jan 2022	Lossy and Lossless Compression 1.3.1.a	Dictionary and RLE Compression 1.3.1.b	Dictionary and RLE Compression 1.3.1.b	Writing Programs in LMC Machine Code and Assembly Language 1.2.4.c	Development Methodologies 1.2.3.a+b	
18	21	18 Jan 2021	17 Jan 2022	Assessment Review	Assessment Review	Data Representation: Machine Code 1.2.4.c	Development Methodologies 1.2.3.a+b	OOP: Classes 1.2.4.e	Censorship and the Internet 0.5.2
19	22	25 Jan 2021	24 Jan 2022	Data Representation: Machine Code 1.2.4.c	Logic Gates and Truth Tables 1.4.3.d	Mini-Assessment	OOP: Classes 1.2.4.e	OOP: Encapsulation 1.2.4.e	
20	23	1 Feb 2021	31 Jan 2022	What are Machine Code and Assembly Language? 1.2.4.c	Components of the CPU 1.1.1.a	Components of the CPU 1.1.1.a	OOP: Encapsulation 1.2.4.e	OOP: Inheritance 1.2.4.e	Monitor behaviour 0.5.2
21	24	8 Feb 2021	7 Feb 2022	Compilation, Interpretation, Translation 1.2.2.d	Compilation, Interpretation, Translation 1.2.2.d	Stages of the Compilation Process 1.2.2.e	Contingency	Contingency	
	25	15 Feb 2021	14 Feb 2022	February Break – Year 12					
22	26	22 Feb 2021	21 Feb 2022	Mocks	Mocks	Mocks	Mocks	Mocks	Analyse personal information 0.5.2
23	27	1 Mar 2021	28 Feb 2022	Stages of the Compilation Process 1.2.2.e	Evolution of Computer Languages 1.4.1.a+1.2.4.a+b	Evolution of Computer Languages 1.4.1.a+1.2.4.a+b	OOP: Inheritance 1.2.4.e	OOP: Inheritance 1.2.4.e	
24	28	8 Mar 2021	7 Mar 2022	Mock Review	Mock Review	Mock Review	OOP: Polymorphism 1.2.4.e	Programming in SQL 1.3.2.d	Piracy and offensive communication 0.5.2
25	29	15 Mar 2021	14 Mar 2022	Fetch Decode Execute Cycle 1.1.1.b	Fetch Decode Execute Cycle 1.1.1.b	Logic Circuits 1.4.3.e	Programming in SQL 1.3.2.d	GUIs 3.x	
26	30	22 Mar 2021	21 Mar 2022	Logic Circuits 1.4.3.e	Bit Twiddling 1.4.1i	How the CPU actually Works 1.1.1.a	GUIs 3.x	Programming Practical	Layout, colour paradigms and character sets 0.5.2
27	31	29 Mar 2021	28 Mar 2022	How the CPU actually Works 1.1.1.a	Mini-Assessment	Mini-Assessment	Contingency	Contingency	
	32	5 Apr 2021	4 Apr 2022	Easter Break (Approximate) -Year 12					
	33	12 Apr 2021	11 Apr 2022						
28	34	19 Apr 2021	18 Apr 2022	Assessment	Assessment	Boolean Expressions 1.4.3.a	GUIs 3.x	GUIs 3.x	Accessibility 0.5.2
29	35	26 Apr 2021	25 Apr 2022	Boolean Algebra 1.4.3.c	Boolean Algebra 1.4.3.c	Boolean Algebra 1.4.3.c	GUIs 3.x	Recursion 2.2.1.b	
30	36	3 May 2021	2 May 2022	Assessment Review	Assessment Review	Karnaugh Maps 1.4.3.b	Recursion 2.2.1.b	–END– 0	–END– 0
31	37	10 May 2021	9 May 2022	Von Neumann, Contemporary and Harvard Architectures 1.1.1.e	RISC and CISC 1.1.2.a	CPU Pipelining 1.1.1.d	–END– 0	–END– 0	
32	38	17 May 2021	16 May 2022	Mini-Assessment	Parallel and Concurrent Execution 1.1.2.c	GPUs 1.1.2.b	–END– 0	–END– 0	–END– 0
33	39	24 May 2021	23 May 2022	Going Faster 1.1.1.c	Function Calls and CPU Stack 2.2.1.d	Linkers, Loaders and Libraries 2.2.2.f	Contingency	Contingency	
	40	31 May 2021	30 May 2022	May Break – Year 12					
34	41	7 Jun 2021	6 Jun 2022	Addressing Modes 1.2.4.d	Addressing Modes 1.2.4.d	Primary Storage: Virtual and Physical Addresses 1.2.1.b	How to Write Reports in Word 3.x	How to Write Reports in Word 3.x	
35	42	14 Jun 2021	13 Jun 2022	Segmentation, Paging, Virtual Memory 1.2.1.b	Interrupts 1.2.1.c	Interrupts 1.2.1.c	Project Choices 3.x	Project Choices 3.x	
36	43	21 Jun 2021	20 Jun 2022	EOY Assessment	EOY Assessment	EOY Assessment	EOY Assessment	EOY Assessment	
36	44	28 Jun 2021	27 Jun 2022	EOY Assessment	Basic Memory Allocation 1.2.1.b	Early Databases 1.3.2.a	Project Choices 3.x	Project Choices 3.x	
37	45	5 Jul 2021	4 Jul 2022	Assessment Review	Assessment Review	Early Databases 1.3.2.a	Phase 0+1: Stakeholders 3.1	Phase 0+1: Analysis 3.1	
38	46	12 Jul 2021	11 Jul 2022	Mini-Assessment	Contingency	Contingency	Phase 0+1: Analysis 3.1	Phase 0+1: Analysis 3.1	
	47	19 Jul 2021	18 Jul 2022	Summer Break					
	48	26 Jul 2021	25 Jul 2022						
	49	2 Aug 2021	1 Aug 2022						
	50	9 Aug 2021	8 Aug 2022						
	51	16 Aug 2021	15 Aug 2022						
	52	23 Aug 2021	22 Aug 2022						
39	1	30 Aug 2021	29 Aug 2022	Assessment	Assessment	Phase 0+1: Analysis 3.1	Phase 0+1: Analysis 3.1	Phase 0+1: Prototype 3.2+3.3	
40	2	6 Sep 2021	5 Sep 2022	Relational Databases and Entity Modelling 1.3.2.a+e+f	Relational Databases and Entity Modelling 1.3.2.a+e+f	Phase 0+1: Prototype 3.2+3.3	Phase 0+1: Prototype 3.2+3.3	Phase 0+1: Prototype 3.2+3.3	
41	3	13 Sep 2021	12 Sep 2022	Assessment Review	Assessment Review	Phase 0+1: Prototype 3.2+3.3	Phase 0+1: Prototype 3.2+3.3	Phase 0+1: Prototype 3.2+3.3	
42	4	20 Sep 2021	19 Sep 2022	Relational Databases and Entity Modelling 1.3.2.a+e+f	Normalisation 1.3.2.c	Phase 0+1: Prototype 3.2+3.3	Phase 0+1: Prototype 3.2+3.3	Phase 0+1: Write-up 3.2+3.3	
43	5	27 Sep 2021	26 Sep 2022	Mini-Assessment	Normalisation 1.3.2.c	Phase 0+1: Write-up 3.2+3.3	Phase 0+1: Write-up 3.2+3.3	Phase 0+1: Write-up 3.2+3.3	
44	6	4 Oct 2021	3 Oct 2022	Data Capture 1.3.2.b	data mining 2.2.2.f	Phase 0+1: Write-up 3.2+3.3	Phase 0+1: Write-up 3.2+3.3	Phase 0+1: Write-up 3.2+3.3	
45	7	11 Oct 2021	10 Oct 2022	Thinking abstractly 2.2.2.a+2.1.1	Thinking ahead 2.1.2	Phase 0+1: Write-up 3.2+3.3	Phase 0+1: Sys T and UAT 3.3.2+3.4.1	Phase 0+1: Sys T and UAT 3.3.2+3.4.1	
46	8	18 Oct 2021	17 Oct 2022	Problem recognition 2.2.2.b	Features solvable by computational methods 2.2.2.a	Phase 0+1: Sys T and UAT 3.3.2+3.4.1	Phase 0+1: Sys T and UAT 3.3.2+3.4.1	Phase 0+1: Sys T and UAT 3.3.2+3.4.1	
	9	25 Oct 2021	24 Oct 2022	October Break – Year 13					
47	10	1 Nov 2021	31 Oct 2022	Flowcharts and pseudocode 2.2.3.c	Flowcharts and pseudocode 2.2.3.c	Phase 0+1: Sys T and UAT 3.3.2+3.4.1	Phase 0+1: Sys T and UAT 3.3.2+3.4.1	Phase 0+1: Sys T and UAT 3.3.2+3.4.1	
48	11	8 Nov 2021	7 Nov 2022	Thinking procedurally 2.1.3	Thinking logically 2.1.4	Phase 0+1: Evaluation 3.4	Phase 0+1: Evaluation 3.4	Phase 0+1: Evaluation 3.4	
49	12	15 Nov 2021	14 Nov 2022	Thinking concurrently 2.1.5	Problem decomposition 2.2.2.c	Phase 0+1: Evaluation 3.4	Phase 0+1: Evaluation 3.4	Phase 0+1: Evaluation 3.4	
50	13	22 Nov 2021	21 Nov 2022	Mini-Assessment	Use of divide and conquer 2.2.2.d	Phase 0+1: Evaluation 3.4	Phase 0+1: Evaluation 3.4	Phase 0+1: Evaluation 3.4	
51	14	29 Nov 2021	28 Nov 2022	performance modelling 2.2.2.f	visualisation 2.2.2.f	Phase 2: Analysis 3.1	Phase 2: Analysis 3.1	Phase 2: Analysis 3.1	
52	15	6 Dec 2021	5 Dec 2022	Mocks	Mocks	Mocks	Mocks	Mocks	
53	16	13 Dec 2021	12 Dec 2022	Open source vs closed source 1.2.2.c	Applications: Nature and choice 2.2.2.a	Phase 2: Prototype 3.2+3.3	Phase 2: Prototype 3.2+3.3	Phase 2: Prototype 3.2+3.3	
	17	20 Dec 2021	19 Dec 2022	Christmas Break – Year 13					
	18	27 Dec 2021	26 Dec 2022						
54	19	3 Jan 2022	2 Jan 2023	Mock Review	Mock Review	Phase 2: Prototype 3.2+3.3	Phase 2: Prototype 3.2+3.3	Phase 2: Write-up 3.2+3.3	
55	20	10 Jan 2022	9 Jan 2023	Assessment	Assessment	Phase 2: Write-up 3.2+3.3	Phase 2: Write-up 3.2+3.3	Phase 2: Write-up 3.2+3.3	
56	21	17 Jan 2022	16 Jan 2023	Applications: Nature and choice 2.2.2.a	Utilities 2.2.2.b	Phase 2: Sys T and UAT 3.3.2+3.4.1	Phase 2: Sys T and UAT 3.3.2+3.4.1	Phase 2: Sys T and UAT 3.3.2+3.4.1	
57	22	24 Jan 2022	23 Jan 2023	Assessment Review	Assessment Review	Phase 2: Sys T and UAT 3.3.2+3.4.1	Phase 2: Evaluation 3.4	Phase 2: Evaluation 3.4	
58	23	31 Jan 2022	30 Jan 2023	Encryption 1.3.1.c	Hashing 1.3.1.d	Phase 2: Evaluation 3.4	Phase 2: Evaluation 3.4	Phase 3: Analysis 3.1	
59	24	7 Feb 2022	6 Feb 2023	Function and purpose of Operating Systems 1.2.1.a	Mini-Assessment	Phase 3: Analysis 3.1	Phase 3: Analysis 3.1	Phase 3: Prototype 3.2+3.3	
60	25	14 Feb 2022	13 Feb 2023	Phase 3: Prototype 3.2+3.3	Phase 3: Prototype 3.2+3.3	Phase 3: Write-up 3.2+3.3	Phase 3: Write-up 3.2+3.3	Phase 3: Write-up 3.2+3.3	
	26	21 Feb 2022	20 Feb 2023	February Break – Year 13					
61	27	28 Feb 2022	27 Feb 2023	Phase 3: Write-up 3.2+3.3	Phase 3: Sys T and UAT 3.3.2+3.4.1	Phase 3: Sys T and UAT 3.3.2+3.4.1	Phase 3: Sys T and UAT 3.3.2+3.4.1	Phase 3: Sys T and UAT 3.3.2+3.4.1	
62	28	7 Mar 2022	6 Mar 2023	Mocks	Mocks	Mocks	Mocks	Mocks	
63	29	14 Mar 2022	13 Mar 2023	Function and purpose of Operating Systems 1.2.1.a	Scheduling 2.2.1.d	Scheduling 1.2.1.d	Types and Characteristics of Operating Systems 1.2.1.e	Contingency	
64	30	21 Mar 2022	20 Mar 2023	Mock Review	Mock Review	Mock Review	Programming Practical	Programming Practical	
65	31	28 Mar 2022	27 Mar 2023	Firmware and Boot Sequence 1.2.1.f	Device drivers 2.2.1.g	Virtual machines 1.2.1.h	heuristics 2.2.2.f	Programming Practical	
66	32	4 Apr 2022	3 Apr 2023	Caching 2.1.2.c	Types of Pipelining 2.2.2.f	Linear and Binary Search 2.3.1.f	Mini-Assessment	Programming Practical	
	33	11 Apr 2022	10 Apr 2023	Easter Break (Approximate) – Year 13					
	34	18 Apr 2022	17 Apr 2023						
67	35	25 Apr 2022	24 Apr 2023	Assessment	Assessment	Assessment	Linear and Binary Search 2.3.1.f	Records, Tuples, Lists 1.4.2.a+c	
68	36	2 May 2022	1 May 2023	Records, Tuples, Lists 1.4.2.a+c	Linked Lists 2.3.1.e,1.4.2.b+c	Trees 2.3.1.e,1.4.2.b+c	Trees 2.3.1.e,1.4.2.b+c	backtracking 2.2.2.f	
69	37	9 May 2022	8 May 2023	Assessment Review	Assessment Review	Graphs 2.3.1.e,1.4.2.b+c	Dijkstra and A* 2.3.1.f	Dijkstra and A* 2.3.1.f	
70	38	16 May 2022	15 May 2023	Insertion Sort 2.3.1.f	Bubble Sort 2.3.1.f	Merge Sort 2.3.1.f	Quick Sort 2.3.1.f	Quick Sort 2.3.1.f	
71	39	23 May 2022	22 May 2023	Designing Algorithms 2.3.1.a	Hash Tables 2.3.1.e,1.4.2.b+c	Networks: Characteristics And Types (WLCP) 1.3.3.a +bne	Networks: Characteristics And Types (WLCP) 1.3.3.a +bne	Protocols and Standards 1.3.3.a	
72	40	30 May 2022	29 May 2023	Packet Switching and Routing 1.3.3.f	Protocol Layering and TCP/IP 1.3.3.b	DNS 1.3.3.b	Mini-Assessment	Urls and HTTP 3.3.4.d	
				Teaching Ends – Year 13					