CSSE2010/CSSE7201 – Introduction to Computer Systems – IN & EX Modes - Sem-2, 2021
Week-by-week Teaching Outline

Wk	Day	Date	Lecture (date)	Learning Lab	Assessment due
1	Mon-Tue	26-27 Jul	1 Course Introduction and Binary numbers (26 Jul)	No labs (P2 sessions) on Mon-Tue on week 1	
	Wed-Fri	28-30 Jul	2 Logic gates (28 Jul)	1 Signed number representations	
2	Mon-Tue	2-3 Aug	3 Binary Arithmetic (2 Aug)	2 Logic Gates	Quiz 1 (4pm, 6 Aug)
	Wed-Fri	4-6 Aug	4 Combinational Logic (4 Aug)	3 Binary Arithmetic	
3	Mon-Tue	9-10 Aug	5 Flip flops (9 Aug)	4 Combinational Logic	Quiz 2 (4pm, 13 Aug)
	Wed-Fri	12-13 Aug	6 Sequential Circuits 1 - Shift Registers (11 Aug) Pre-recorded lecture due to public holiday on 11/08/21	5 Flip flops	
4	Mon-Tue	16-17 Aug	7 Sequential Circuits 2 - Counters (16 Aug)	6 Sequential Circuits 1	Quiz 3 (4pm, 20 Aug)
	Wed-Fri	18-20 Aug	8 Sequential Circuits 3 - State Machines (18 Aug)	7 Sequential Circuits 2	
5	Mon-Tue	23-24 Aug	9 ALU and Memory (23 Aug)	8 Sequential Circuits 3	Quiz 4 (4pm, 27 Aug)
	Wed-Fri	25-27 Aug	10A Control Unit, Assignment 1 release (25 Aug)	Cath-up labs, Assignment 1 working	
6	Mon-Tue	30-31 Aug	10B Review and Introduction to C language (30 Aug)	Assignment 1 working time	Assignment 1 submission (4pm, 3 Sep)
	Wed-Fri	01-03 Sep	11 Introduction to AVR and Assembly Language (1 Sep)		
7	Mon-Tue	06-07 Sep	12 Instruction Set Architecture 1 (06 Sep)	Assignment 1 oral assessments during individual P2 sessions on Mon-Tue*	Quiz 5 (4pm, 10 Sep)
	Wed-Fri	08-10 Sep	13 Instruction Set Architecture 2 (08 Sep)	9 C Programming	
8	Mon-Tue	13-14 Sep	14 C for AVR Microcontroller (13 Sep)	10 Atmel Assembly	Quiz 6 (4pm, 17 Sep)
	Wed-Fri	15-17 Sep	15 Flow Control and AVR Timers (15 Sep)	11 AVR Hardware Introduction	
9	Mon-Tue	20-21 Sep	16 Pulse Width Modulation (PWM) (20 Sep)	12 AVR C Programming	Quiz 7 (4pm, 24 Sep)
	Wed-Fri	22-24 Sep	17 Interrupts (22 Sep)	13 AVR Timers	
			Semester Break		
10	Mon-Tue	04-05 Oct	18 Serial I/O - Pre-recored due to public holiday on 4 Oct	14 AVR PWM	Quiz 8 (4pm, 8 Oct)
	Wed-Fri	06-08 Oct	19 More on Input-Output on AVR (6 Oct)	15 AVR Interrupts	
11	Mon-Tue	11-12 Oct	20 Assembly Process (11 Oct)	16 Serial I/O and ADC, Assignment 2 released	Quiz 9 (4pm, 15 Oct)
	Wed-Fri	13-15 Oct	21 Compilation and Linking Process (13 Oct)	17 SPI/Communication, Assignment 2 discussion	
12	Mon-Tue	18-19 Oct	22 Memory and Disks (18 Oct)	Assignment 2	Quiz 10 (4pm, 22 Oct)
	Wed-Fri	20-22 Oct	23 File System and Busses (20 Oct)		
13	Mon-Tue	25-26 Oct	24 Floating Point Numbers (25 Oct)	Assignment 2	Assignment 2 (4pm, 29 Oct)
	Wed-Fri	27-29 Oct	25 Final Exam Review (27 Oct)		
			Revision week - a 2-hour exam review session might be held		
			Final Exam during the examination period, 2 hour invigilated exam, IN: paper-based on campus exam, EX: Proctor U online exam		

* Additional sessions might be scheduled for the oral assessments as required