[B38DF] Xidian Campus Schedule (Part 1) – 2021-2022

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Week/ Date	Learning Units	Lecture Slides	Tutorial/Lab	Assessments
Week 1 21/2 - 27/2	Introduction Basic Components and Concepts of Computer Systems Processors: CPU, Instruction Execution	Slides: LS1 Slides: LS2a Video: V2a	N/A	
Week 2 28/2 - 6/3	Parallelism, Performance Analysis (Latency and Throughput) and Amdahl's Law Error Correction: Error-Correcting Codes, Hamming distance, Hamming's Algorithm and examples	Slides: LS2b Video: V2b Slides: LS3a, LS3b Video: V3a	Tutorial 1	
Week 3 7/3 - 13/3	Primary/Internal Memory: Endianness, Big-Endian, Little-Endian Memory and Cache Memory Primary Memory: RAM, ROM, Programmable Logic Devices (PLDs) Secondary Memory: Magnetic Disks, CD-ROMs, DVD	Slides: LS3c, LS4a, LS4b Video: V3a, V4a	Lab 1	Lab 1 (25%) **Release: 8th March** **Deadline: 19th March**
Week 4 14/3 - 20/3	Instructions - Instruction Format, Addressing, Datapath, Three-Instruction Programmable Processor Input/Output Device Connection (Buses, Devices), Full and Minimal-Cost Address Decoding	Slides: LS5, LS6 Video: V8, V9	Tutorial 2	Assignment 1 (25%) **Date: TBC** **In class or take home**