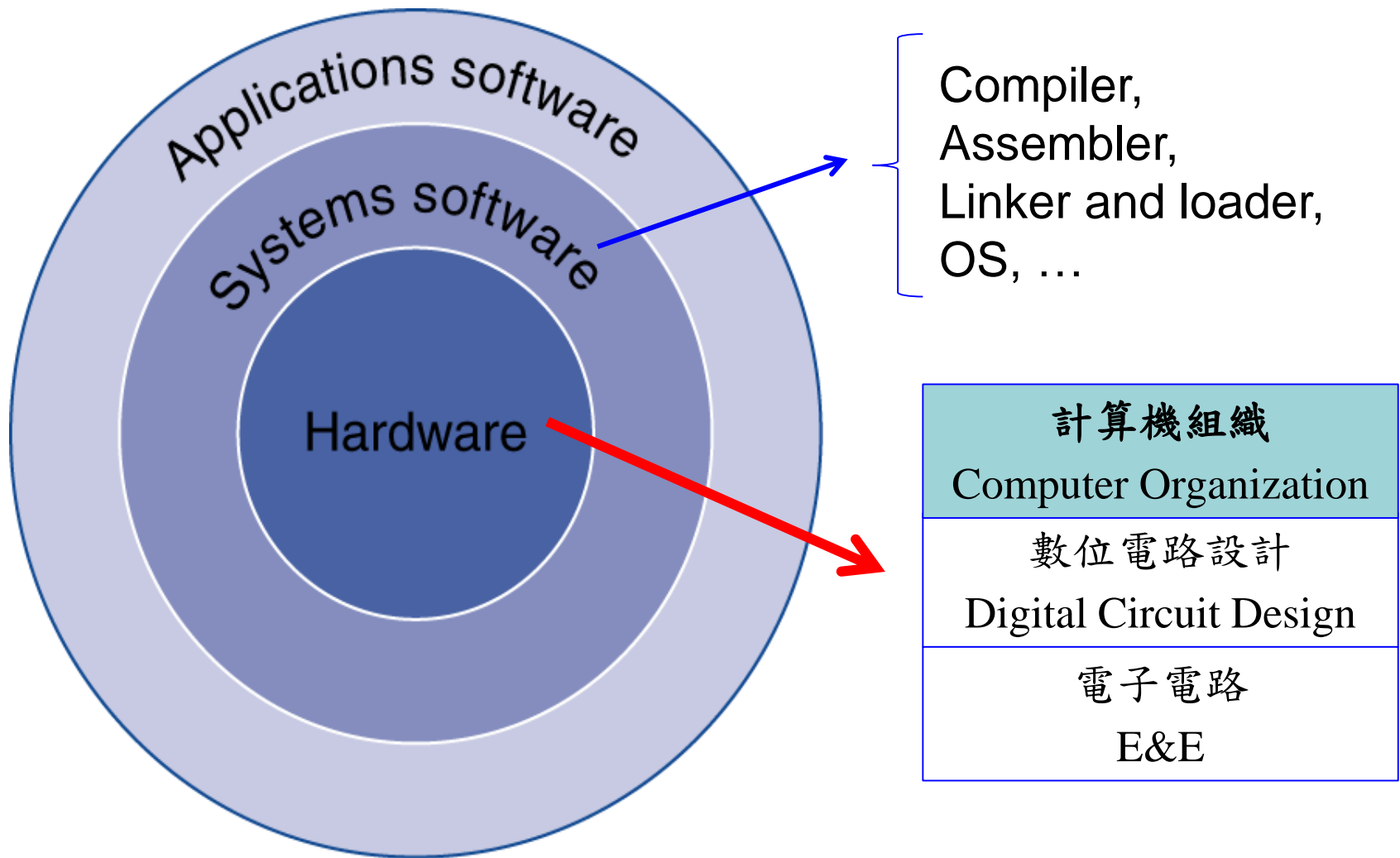# Computer Organization

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Computer Organization

Compiler,
Assembler,
Linker and loader,
OS, …

計算機組織
Computer Organization
數位電路設計
Digital Circuit Design
電子電路
E&E

Computer Organization

- **Course outline**

  Ch 1: Computer Abstractions and Technology

  Ch 2: Instructions: Language of the Computer

  Ch 3: Arithmetic for Computers

  Ch 4: The processor

  Ch 5: Memory Hierarchy

  Ch 6: Multiprocessor

- **Programming Homeworks**
  - 1 hw (using MIPS assembly language)
  - 1 term project with 3 stages (Using Verilog)
  - 1 member per team.

Computer Organization

- Exam/Quiz schedule

	Mon	Tue	Wed	Thu	Fri
July		7/4	5		
	10 (Q1)	11	**12(Q2)**		
	17 (M)	18	19		
	24(Q3)	25	**26(Q4)**		
	31 (M)	8/1	2		
Aug.	**7(Q5)**	**8 (F)**	9		

Computer Organization

- **Course material**
  - **Text Book:** "Computer Organization & Design, The Hardware/Software Interface," David A. Patterson and John L. Hennessy, MORGAN KAUFMANN, 5th edition.

  - **Lecture handout (**including this **course outline)**
    - Download from new E3 (http://e3new.nctu.edu.tw)

  - **Project assignment & announcement**
    - on new E3 platform

Computer Organization

- **Grading1**

  - **3 exams: 60%**

  - **Quizzes: 20%**

  - **Programming homework: 20%**
    - **4~5**