A-Level Computer Science

Scheme of Work · 教学计划

A starting allocation over 56 teaching weeks, weighted by the lessons the teaching plan gives each topic, and beyond the plan by each topic's syllabus statements and past-paper marks on the same scale — adjust to your own calendar. The last column lists the Library material that already covers the topic. 这是按教学计划中各主题的课时 (计划未覆盖的主题按大纲条目与真题分值折算) 分配的起始教学计划, 可按实际校历调整; 最后一栏列出资料库中已有的配套材料。

Weeks	Topic	Subtopics	Library material
1–3	**1. Information representation** 信息表示	1.1, 1.2, 1.3	Handout · 6 Learn lessons · Slide deck · Vocabulary list · 5 exercise sheets · 7 past-paper sheets · Unit test
4–6	**2. Communication** 通信	2.1	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 4 exercise sheets · 3 past-paper sheets · Unit test
7–9	**3. Hardware** 硬件	3.1, 3.2	Handout · 6 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 8 exercise sheets · 8 past-paper sheets · Unit test
10–12	**4. Processor Fundamentals** 处理器基础	4.1, 4.2, 4.3	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 5 exercise sheets · 4 past-paper sheets · Unit test
13–14	**5. System Software** 系统软件	5.1, 5.2	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 5 exercise sheets · 5 past-paper sheets · Unit test
15–16	**6. Security, privacy and data integrity** 安全、隐私与数据完整性	6.1, 6.2	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
17–18	**7. Ethics and Ownership** 伦理与所有权	7.1	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
19–21	**8. Databases** 数据库	8.1, 8.2, 8.3	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 6 exercise sheets · 6 past-paper sheets · Unit test
22–25	**9. Algorithm Design and Problem-solving** 算法设计与问题求解	9.1, 9.2	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 6 exercise sheets · 6 past-paper sheets · Unit test
26–29	**10. Data Types and Structures** 数据类型与数据结构	10.1, 10.2, 10.3, 10.4	Handout · 5 Learn lessons · Slide deck · Vocabulary list · 7 exercise sheets · 6 past-paper sheets · Unit test

Weeks	Topic	Subtopics	Library material
30–35	**11. Programming** 程序设计	11.1, 11.2, 11.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 12 exercise sheets · 10 past-paper sheets · Unit test
36–38	**12. Software Development** 软件开发	12.1, 12.2, 12.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 5 exercise sheets · 5 past-paper sheets · Unit test
39–41	**13. Data Representation** 数据表示	13.1, 13.2, 13.3	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 5 exercise sheets · 3 past-paper sheets · Unit test
42–43	**14. Communication and internet technologies** 通信与互联网技术	14.1, 14.2	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
44–46	**15. Hardware and Virtual Machines** 硬件与虚拟机	15.1, 15.2	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 3 exercise sheets · 2 past-paper sheets · Unit test
47–49	**16. System Software** 系统软件	16.1, 16.2	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 3 exercise sheets · 2 past-paper sheets · Unit test
50	**17. Security** 安全	17.1	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 1 exercise sheet · 1 past-paper sheet · Unit test
51–52	**18. Artificial Intelligence (AI)** 人工智能（AI）	18.1	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 1 exercise sheet · 1 past-paper sheet · Unit test
53–54	**19. Computational thinking and Problem-solving** 计算思维与问题求解	19.1, 19.2	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 3 exercise sheets · 2 past-paper sheets · Unit test
55–56	**20. Further Programming** 进阶程序设计	20.1, 20.2	Handout · 5 Learn lessons · Slide deck · Vocabulary list · 3 exercise sheets · 2 past-paper sheets · Unit test