CAMPUS CALENDAR 2021-22

Faculty of Business, Computer Science and ICT - KS5 computer science - Year 12

Faculty of Business, Computer Science and IC1 - KS5 computer science - Year 12						
23 Aug - 27 Aug	1	Paper 1 topics for this half-term: • Programming basics				
30 Aug - 03 Sept	2					
06 Sept - 10 Sept	3	 Implementing searching and sorting algorithms Introduction to Data structures 				
13 Sept - 17 Sept	4					
20 Sept - 24 Sept	5	Paper 1 assessments this half-term: Paper 1 assessment 1 - simple hand tracing				
27 Sept - 01 Oct	6					
04 Oct - 08 Oct	7	Paper 2 topics fo this half-term: • Number systems				
11 Oct - 15 Oct	8	 Number bases Units Binary Coding systems Representation of data Compression Encryption System software Paper 2 assessments this half-term: Paper 2 assessment 1 - representation of data 				
18 Oct - 22 Oct		Mid Term Break				
25 Oct - 29 Oct	9	Paper 1 topics for this half-term:				
01 Nov - 05 Nov	10	More complex data structures				
08 Nov - 12 Nov	11	More complex algorithms				
15 Nov - 19 Nov	12	Paper 1 assessments this half-term:				
22 Nov - 26 Nov	13	 Paper 1 assessment 2 -complex hand tracing Paper 1 assessment 3 - trees 				
29 Nov - 03 Dec	14					
06 Dec - 10 Dec	15	Paper 2 topics fo this half-term: • Classification of languages				
13 Dec - 17 Dec	16	 Logic gates Boolean algebra Internal hardware Assembly language External hardware Consequences of using computers Paper 2 assessments this half-term: Paper 2 assessment 2 - fundamentals of computer systems Paper 2 assessment 3 - topics from this half term 				
20 Dec - 24 Dec	17 a					
27 Dec - 31 Dec	u	Christmas & New Year Break				
03 Jan - 07 Jan	17	Paper 1 topics for this half-term:				
	b	 More complex data structures including records 				
10 Jan - 14 Jan	18	 Recursive techniques More complex algorithms including merge sort. 				
17 Jan - 21 Jan	19	Abstraction and automation				

24 Jan - 28 Jan	20	
31 Jan - 04 Feb	21	Paper 1 assessments this half-term:
07 Feb - 11 Feb	22	 Paper 1 assessment 4 - records Paper 2 topics fo this half-term: Communication Networking Paper 2 assessments this half-term: Paper 2 assessment 4 - networking
14 Feb - 18 Feb		Mid Term Break
21 Feb - 25 Feb	23	Paper 1 topics for this half-term:
28 Feb - 04 Mar	24	Theory of computation Decides lenguages
07 Mar - 11 Mar	25	Regular languagesContext free languages
14 Mar - 18 Mar	26	Paper 1 assessments this half-term:
21 Mar - 25 Mar	27	None this half term
28 Mar - 01 Apr	28	Paper 2 topics fo this half-term:
04 Apr - 08 Apr	29	 Databases SQL Paper 2 assessments this half-term: None this half term
11 Apr - 15 Apr		
11 Apr - 15 Apr 18 Apr - 22 Apr		Easter Break
	30	Easter Break Paper 1 topics for this half-term:
18 Apr - 22 Apr	30	Paper 1 topics for this half-term: • More complex data structures including hash tables and stacks
18 Apr - 22 Apr 25 Apr - 29 Apr		Paper 1 topics for this half-term:
18 Apr - 22 Apr 25 Apr - 29 Apr 02 May - 06 May	31	Paper 1 topics for this half-term: More complex data structures including hash tables and stacks Classification of algorithms Paper 1 assessments this half-term:
18 Apr - 22 Apr 25 Apr - 29 Apr 02 May - 06 May 09 May - 13 May	31 32	Paper 1 topics for this half-term: More complex data structures including hash tables and stacks Classification of algorithms
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Course Information

Course Structure	The course is assessed through two exams and coursework (NEA). Paper 1 is worth 40% Paper 2 is worth 40% NEA is worth 20% You will hand your coursework in before the Easter break in year 13. You will sit both papers at the end of year 13. Paper 1 is a programming paper that you will do using a computer. Paper 2 is a written paper.					
Assessment	You will be assessed at 6 points throughout the year for both papers. The assessments will be formed of past exam-style content and will be graded with A level grades. Each assessment will be mostly focussed on the topic you have been studying; however, some of the questions will be interleaved (questions from other topics) making it vital that you always revisit topics over and over again.					
<u>Feedback</u>	 You complete the assessment Your teacher will mark the work, giving you strengths that reinforce the positives in your work and targets that directly show you how to improve. Your work will be returned to you and you will fill in a STAR Reflection sheet to help you engage with the feedback and identify how you will improve for next time After reading the detailed feedback your teacher has provided you with, you will improve a part of your work using a purple pen. Your assessments will be placed into assessment folders for the subject 					
Assessment Objectives		How do I demonstrate this in my work	Overall weighting			
	<u>AO1</u>	Demonstrate knowledge and understanding of the principle concepts of computer science, including abstraction, logic, algorithms and data representation. This is largely tested in paper 2 and a little in paper 1.	30%			
	AO2	Apply knowledge and understanding of the principles and concepts of computer science, including to analyse problems in computational terms. This is tested in both papers and a little in the NEA.	30%			
	AO3	Design, program and evaluate computer systems that solve problems, making reasoned judgements about these and presenting conclusions. This is tested largely in paper 1 and the NEA and a little in paper 2.	40%			
Study Materials	 Knowledge Organisers Course companions available through the college. Google Classroom Craig 'n' Dave YouTube channel AQA specification, past papers and bank of exam questions Resources written by the team 					
Class Work	You will need to provide a ring binder to keep your notes in. You will be given dividers with lists of all the topics for each section of the course. Your folders will be checked regularly to make sure you are making good quality notes and that your work is well organised.					