



آغا خان یونیورسٹی ایگزامینیشن بورڈ
AGA KHAN UNIVERSITY EXAMINATION BOARD

Teaching and Learning Resources for Grade IX Computer Science

Recommended Key Textbook:

Textbook of Computer Science Grade 9, National Book Foundation, Islamabad

Additional Recommended Resource Material				
Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
1.	Basics of Computer	David Watson and Helen Williams. <i>Cambridge IGCSE Computer Science</i> (2015)	Chapter 4 Operating Systems and Computer Architecture Chapter 5 Input and Output Devices Chapter 6 Memory and Data Storage	http://sabaq.pk/book-page.php?b=f&c=9&s=cs https://www.bbc.com/bitesize/topics/zkq2pv4 https://www.bbc.com/bitesize/topics/z87mn39 https://www.igcseict.info/theory/2/index.html https://www.igcseict.info/theory/3/index.html https://www.igcseict.info/theory/1/index.html

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
				https://www.tutorialspoint.com/computer_fundamentals/computer_input_devices.htm https://quizlet.com/196857734/igcse-computer-science-input-output-devices-flash-cards/
2.	Basics of Operating System	David Watson and Helen Williams. <i>Cambridge IGCSE Computer Science</i> (2015)	Chapter 4 Operating Systems and Computer Architecture	https://www.bbc.com/bitesize/guides/ztcdftr/revision/1 https://www.igcseict.info/theory/1/os/index.html https://www.tutorialspoint.com/computer_fundamentals/computer_operating_system.htm https://www.geeksforgeeks.org/operating-systems-need-and-functions/
3.	Office Automation I (MS Word 2007 or Above)			https://edu.gcfglobal.org/en/word2007/ http://www.baycongroup.com/wlesson0.htm https://support.office.com/en-us/article/word-for-windows-training-7bcd85e6-2c3d-4c3c-a2a5-5ed8847eae73

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
4.	Fundamentals of Data Communication	David Watson and Helen Williams. <i>Cambridge IGCSE Computer Science</i> (2015)	Chapter 2 Communication and Internet Technologies	https://www.bbc.com/bitesize/topics/zjxytyrd https://www.igcseict.info/theory/4/index.html
5.	Fundamentals of Computer Networks	David Watson and Helen Williams. <i>Cambridge IGCSE Computer Science</i> (2015)	Chapter 2 Communication and Internet Technologies	https://quizlet.com/154458441/igcse-computer-science-12-communication-and-internet-technologies-flash-cards/ https://quizlet.com/187766713/ib-computer-science-topic-3-networks-flash-cards/ http://www.teach-ict.com/gcse_new/networks/computer_networks/miniweb/index.htm http://www.teach-ict.com/gcse_new/networks/topologies/miniweb/index.htm http://www.teach-ict.com/gcse_new/networks/hardware/miniweb/index.htm

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
6.	World Wide Web (WWW) and Hypertext Markup Language (HTML)	<i>Textbook of Computer Science Grade 10</i> (2017), National Book Foundation, Islamabad	Chapter 7 World Wide Web and HTML	https://www.w3schools.com/html/ https://www.tutorialspoint.com/html/html_tutorial.pdf https://www.w3.org/People/Raggett/book4/ch01.html

Note: This resource list has been prepared primarily for teachers. While it can be shared with students, students should not be required to buy multiple books. Schools are encouraged to stock these books in the library. Moreover, these are only suggestions which have been compiled for the ease of teachers and students; schools are encouraged to use other resources for teaching and learning as well, as long as they are in line with the student learning outcomes (SLOs) mentioned in AKU-EB syllabi. Unless specified, AKU-EB does not endorse any of these books or websites. You are advised to use an ad-blocker while accessing the websites. In case any website is not functional for any reason, you may inform us at examination.board@aku.edu for an alternative or search material via any search engine. If you have any query, please contact us via email.



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Teaching and Learning Resources for Grade X Computer Science

Recommended Key Textbook:

Textbook of Computer Science Grade 10, National Book Foundation, Islamabad

Additional Recommended Resource Material				
Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
7.	Algorithms and Flowchart	David Watson and Helen Williams. <i>Cambridge IGCSE Computer Science</i> (2015)	Chapter 9 Problem-solving and Design	http://sabaq.pk/book-page.php?b=f&c=10&s=cs https://www.bbc.com/bitesize/guides/z22wwmn/revision/1 https://www.bbc.com/bitesize/guides/zrxncdm/revision/1 https://quizlet.com/270332617/igcs-e-computer-science-problem-solving-design-flash-cards/

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
8.	Programming in C Language	Yashavant P. Kanetkar <i>Let Us C</i> (5th Edition)	Chapter 1 Getting Started	https://www.learn-c.org/ https://www.tutorialspoint.com/cprogramming/index.htm https://www.onlinegdb.com/online_c_compiler https://www.w3schools.in/c-tutorial/data-types/
9.	Fundamentals of Input and Output Handling in C Programming	Yashavant P. Kanetkar <i>Let Us C</i> (5th Edition)	Chapter 1 Getting Started	https://www.w3schools.in/c-tutorial/input-output/ https://www.tutorialspoint.com/cprogramming/c_input_output.htm
10.	Control Structure	Yashavant P. Kanetkar <i>Let Us C</i> (5th Edition)	Chapter 2 The Decision Control Structure	https://www.tutorialspoint.com/cprogramming/c_decision_making.htm https://www.learn-c.org/en/Conditions https://www.w3schools.in/c-tutorial/decision-making/

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
11.	Loop Structure	Yashavant P. Kanetkar <i>Let Us C</i> (5 th Edition)	Chapter 3 The Loop Control Structure	https://www.tutorialspoint.com/cprogramming/c_loops.htm https://www.w3schools.in/c-tutorial/loops/
12.	Computer Logic and Gates	David Watson and Helen Williams. <i>Cambridge IGCSE Computer Science</i> (2015)	Chapter 3 Logic Gates and Logic Circuits	https://www.tutorialspoint.com/computer_logical_organization/logic_gates.htm
13.	Office Automation II (MS Excel 2007 or Above)	Textbook of Computer Science Grade 9 (2017), National Book Foundation, Islamabad	Chapter 3 Office Automation	https://edu.gcfglobal.org/en/excel2007/ https://support.office.com/en-us/article/excel-for-windows-training-9bc05390-e94c-46af-a5b3-d7c22f6990bb
14.	Computer Security and Ethics	David Watson and Helen Williams. <i>Cambridge IGCSE Computer Science</i> (2015)	Chapter 8 Security and Ethics	https://quizlet.com/264483256/security-and-ethics-chapter-8-igcse-computer-science-flash-cards/ https://revisionforigcse.wordpress.com/chapter-8-security-and-ethics/

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