

# Information and Communication Technology (ICT)

## Curriculum Structure and Suggested Time Allocation

<b>The Compulsory Part</b>		<b>145</b>	
A.	Information Processing	54	52
	<i>a. Introduction to Information Processing</i>		5
	<i>b. Data Organisation and Data Control</i>		4
	<i>c. Data Representation</i>		10
	<i>d. The Use of Office Automation Software</i>	30	28
	<i>e. Presentation of Information</i>		5
B.	Computer System Fundamentals	25	
	<i>a. Basic Machine Organisation</i>		15
	<i>b. System Software</i>		4
	<i>c. Computer Systems</i>		6
C.	Internet and its Applications	24	22
	<i>a. The Networking and Internet Basics</i>		9
	<i>b. Internet Services and Applications</i>		7
	<i>c. Elementary Web Authoring</i>		5
			8
D.	Basic Programming Concepts	20	24
	<i>a. Problem-Solving Procedures</i>		4
	<i>b. Algorithm Design</i>		13
	<i>c. Algorithm Testing</i>		3
			7
E.	Social Implications	22	
	<i>a. Equity of Access</i>		2
	<i>b. Work and Health Issues</i>		2
	<i>c. Intellectual Property</i>		6
	<i>d. Threats and Security on the Internet</i>		12
<b>The Elective Part (Choose one only)</b>		<b>75</b>	
A.	Databases	75	
	<i>a. Introduction to Databases</i>		8
	<i>b. Relational Databases</i>		28
	<i>c. Introduction to Database Design Methodology</i>		22
	<i>d. Database Applications, Development and Society</i>		17
B.	Data Communications and Networking	75	
	<i>a. Data Communications and Networking Basics</i>		38
	<i>b. Network Design and Implementation</i>		26
	<i>c. Network Management and Security</i>		11
C.	Multimedia Production and Web Site Development	75	
	<i>a. Multimedia Production</i>		25
	<i>b. Web Site Development</i>		50
D.	Software Development	75	
	<i>a. Programming</i>		47
	<i>b. Programming Languages</i>		12
	<i>c. Systems Development</i>		16
<b>School-based Assessment</b>		<b>30</b>	
<b>Total Curriculum Time</b>		<b>250 hours<sup>1</sup></b>	

## MODE OF ASSESSMENT

The public assessment will consist of a public examination component and a school-based assessment component as outlined in the following table:

Component		Weighting	Duration	
Public Examination	Paper 1	Compulsory part	55%	2 hours
	Paper 2	Elective part (choose one only)	25%	1 hour 30 minutes
	2A	Databases elective,		
	2B	Data Communications and Networking elective,		
2C	Multimedia Production and Web Site Development elective, OR			
	2D	Software Development elective		
School-based Assessment (SBA)		20%		

## PUBLIC EXAMINATION

### Paper 1

There will be two sections in this paper: Section A (40%) will consist of multiple-choice questions and Section B (60%) structured questions. Questions will be set on the compulsory part of the curriculum. All questions are compulsory.

### Paper 2

This paper consists of structured questions. Candidates are required to choose one of the following electives:

- Paper 2A Databases
- Paper 2B Data Communications and Networking
- Paper 2C Multimedia Production and Web Site Development
- Paper 2D Software Development

Questions will be set on the elective part of the curriculum. Candidates are expected to build upon the knowledge and skills learned in the compulsory part and demonstrate in-depth knowledge and skills in the elective area. All questions are compulsory.

## Access School TEAMS – S3 Career for Details