INFORMATION AND COMMUNICATION TECHNOLOGY (ELECTIVE)

1. **AIMS**

The aims of the syllabus are to:

- (1) test candidates' appreciation of the concepts of Information and Communication Technology (ICT);
- (2) test the capabilities of candidates in the application of ICT skills in education and business;
- (3) verify candidates' potential for higher studies in Information and Communication Technology and related areas.

2. SCHEME OF EXAMINATION

There will be three papers, Papers 1, 2 and 3 all of which must be taken. Papers 1 and 2 will be a composite paper to be taken at a sitting.

- **PAPER 1:** Will consist of fifty multiple-choice objective questions all of which must be answered within 1 hour for 25 marks.
- **PAPER 2:** Will consist of five essay-type questions. Candidates will be required to answer three questions within 1 hour for 30 marks.
- **PAPER 3:** Will be a practical test consisting of three questions all of which must be answered within 2 hours, for 45 marks.

TOPIC	NOTES
1. DATA	1.1 Data types e.g integers, real numbers,
. REPRESENTATION	strings etc
	1.2 Number bases with special reference to
	binary, decimal and hexadecimal.
	1.3 Units of data storage.
2. INTRODUCTION	2.1 Meaning of information system
TO INFORMATION	2.2Knowledge of the different
SYSTEMS	types of information systems.
	2.3 Attributes of good information.
	2.4Internal and external information
	eg. intranet, extranet, memos,
intercom,	
	talking drum, mobile phone etc.
	2.5 The role of information in society.
3. INTRODUCTION	3.1 The Internet
TO DIGITAL	3.2Computer crime

1. DETAILED SYLLABUS

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TECHNOLOCY	
TECHNOLOGY	3.3 The role and impact of Information
CULTURE	Technology on everyday life e.g
	e-business, e-health, e-mail,
	e-learning, Computer Based
	Training, Computer Assisted
	Manufacturing, Computer Aided Design, etc.
	1.4 Knowledge of media types e.g digital videos
	and
	1.5 digital sounds, voice over internet protocol
	(VOIP),voice recognition system, etc.
4. WORD	4.1 Creating, editing and formatting documents.
PROCESSING	
PROCESSING	4.2 Business documents eg. memos, reports etc.
	4.3 Mail merge.
	4.4 Printing of documents.
5. DESKTOP	5.1 Creating, editing and formatting documents.
PUBLISHING	5.2 Printing publications.
	5.2 Thinking publications.
6. SPREADSHEET	6.1 Creating, editing and formatting documents.
	6.2 Sorting and querying for information.
	6.3 Creating graphs and charts to represent data
in	
	worksheets.
	6.4 Working with functions
	6.5 Data security: use of passwords.
7. HARDWARE	7.1 External components and their functions.
	7.2 Internal components and their functions.
	7.2 Internal components and then functions.7.3 Computer Diagnostics and Maintenance.
	7.5 Computer Diagnostics and Manitenance.
8. SOFTWARE	8.1 System software e.g operating systems and
	their functions.
	8.2 Utility programmes and their uses.
	8.3 Types of application programs.
	8.4 Software licensing considerations.
	8.5 Installation and upgrading of computer software.
	8.6 Software terminologies and concepts:
	- machine language;
	 high-level versus low level;
	- use of fourth generation language;
	- use of language translators;
	- source code;
	- Error messages;
	- Software portability;
	- Compilers;
	- Interpreters;
	- Assemblers, etc.

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9. NETWORKING	9.1 Network concept.
7. INET WORKING	9.1 Network concept. 9.2Types of networks.
	9.3 Network Topology
	9.4 Network Architecture.
	9.5 Network configuration.
	9.6 Communication of data on networks.
	9.7 Data security on networks.
10. INTRODUCTION	10.1 Flow charts
ТО	10.2 Algorithms and data structures
PROGRAMMING	10.3 Program development life cycle.
	10.4 Programming languages.
	10.5 Web design using HyperText
	Mark-up Language (HTML).
	10.6 Practical knowledge of BASIC and HTML
	programming languages. Questions will
	however be limited to QBASIC.
11. DATA BASE	11.1 Designing and creating data bases.
MANAGEMENT	11.2 Working with queries.
SYSTEM	11.3 Working with forms.
	11.4 Working with reports.
12. APPLICATION	12.1 Types of tools.
OF ICT TOOLS	12.2 Learning with ICT tools
IN EDUCATION	12.3 Advantages and disadvantages of using ICT tools in learning.