

NATIONAL EXAMINATIONS COUNCIL
(NECO)

BASIC EDUCATION CERTIFICATE
EXAMINATION
(BECE)

SYLLABUS

FOR CANDIDATES IN UPPER BASIC
(JSS1-3) IN NIGERIA UNDER THE
UNIVERSAL BASIC EDUCATION (UBE)
PROGRAMME.

BECE

SECOND EDITION

COMPUTER STUDIES/ICT
DETAILED SYLLABUS CONTENT

JSS ONE

1. HISTORICAL DEVELOPMENT OF COMPUTERS

(a) Early counting devices:

- (I) Cowries
- (II) Fingers
- (III) Stones
- (IV) Sticks
- (V) Pebbles, etc.

(b) Mechanical counting and calculating devices such as:

- I. Abacus
- II. Slide rule, etc.

(c) Electro-mechanical counting devices:

- I. John Napier bone
- II. Blaise Pascal machine
- III. Gottfried Leibniz machine
- IV. Jacquard Loom
- V. Charles Babbage analytical machine and Philip Emeagwali

(d) Electronic counting devices and modern computer:

- I. Herman Hollerith punch cards
- II. John Von Neumann machine and modern machines

(e) Generation of computers first to fifth generation

2. DATA PROCESSING

a. Definition of data and data processing

b. Data processing cycle:

- (I) Data gathering
- (II) Data collation
- (III) Input stage
- (IV) Processing stage
- (V) Storage stage
- (VI) Output stage

c. Importance of the computer as a tool for processing data:

- (I) Increase accuracy

- (II) Efficient storage
- (III) Fast access to information
- (IV) Handles repetitive task

3. COMPUTER ETHICS

- a) Computer room management ethics:
 - (I) Maintaining dust-free environment
 - (II) Good ventilation
 - (III) Appropriate lighting and setting computer
- b) Laboratory rules and regulations:
 - (I) Arrange chairs and tables in a comfortable manner
 - (II) Arrange the computers and their peripherals in an orderly manner

4. APPLICATIONS OF ICT IN AN EVERYDAY LIFE

- a) Uses of ICT
 - i. Communication
 - ii. Timing and control
 - iii. Information processing/management
- b) ICT and society

5. INFORMATION TRANSMISSION

- a) Meaning of information transmission
- b) Ancient methods of transmitting information:
 - i. Oral
 - ii. Beating drums
 - iii. Fire lighting
 - iv. Town crying
 - v. Whistling
 - vi. Drawing diagram, etc.
- c) Modern methods of transmitting information:
 - (I) Prints
 - (II) Telephone
 - (III) Telex
 - (IV) Radio
 - (V) Television
 - (VI) Fax
 - (VII) Satellite

(VIII) Internet

(IX) GSM, etc.