

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 THREE

1. COMPUTER VIRUSES

- a. Meaning of computer viruses
- b. Types of computer virus:
 - (I) Boot sector
 - (II) Executable file virus
 - (III) Attack on documents
- c. Examples of viruses:
 - I. Trojan horse
 - II. Sleeper
 - III. Logic bomb
 - IV. Alabama
 - V. Virus
 - VI. Christmas virus
- d. Sources of viruses:
 - I. infected diskettes
 - II. Infected CD-ROMs
 - III. E-mails
 - IV. Internet downloads
 - V. Illegal duplication of software, etc.
- e. Viruses warning signs:
 - I. Slowing down of response time
 - II. Presence of tiny dots
 - III. Wandering across the screen
 - IV. Incomplete saving of file
 - V. Corruption of the system set-up instructions
 - VI. Appearance of strange character
- f. Virus detection (Anti-virus):
 - (I) Norton anti virus
 - (II) McAfee virus scan

(III) Dr. Solomon's kit, etc.

2. DATABASE

a. Database terminologies:

- (I) Fields
- (II) Records
- (III) File
- (IV) Database
- (V) Key, etc.

b. forms of database:

- I) Flat file
- II) Hierarchical
- III) Relational, etc.

3. COMPUTER CAREER OPPORTUNITY

a. Computer professionals

- I) Computer manager
- II) System analyst
- III) Programmers
- IV) Computer educator
- V) Computer engineer and Technicians
- VI) Operators

b. Qualities of a good computer professionals

c. Computer professional bodies:

- I. Nigeria Computer Society (NCS)
- II. Institute of Management Information System (IMIS)
- III. Computer professional registration Council of Nigeria (CPRN)
- IV. Nigeria Internet Group (NIG)
- V. Information Technology Association of Nigeria (ITAN), etc.

4. DIGITAL DIVIDE

a. Concept of digital divide

b. Features of old economy:

- I. Time consuming
- II. Labour based
- III. Mechanical
- IV. Constrained by space, time and distance, etc.

c. Features of new economy:

- I) Digital
- II) Time, space and distance is irrelevant
- III) Technology driven
- IV) Knowledge based, etc.
- d. Limitation of the old economy
- e. Benefits of new economy:
 - I) Low capital to start business
 - II) Creates new jobs, etc.

5. WORD PROCESSING

- a. Definition of word processing, examples of word processing packages (Microsoft word) Amipro and professional write, etc.)
- b. Uses of word processor like:
 - (I) Creating text document
 - (II) Loading and existing Microsoft word
 - (III) Creating files
 - (IV) Saving
 - (V) Retrieving files, etc.

6. SPREADSHEET PACKAGES AND WORKSHEET

- a) Examples of spreadsheet package (Excel, Lotus 123, STATVIEW, etc)
- b) Uses of spreadsheet packages:
 - (I) Preparation of budget
 - (II) Examination result
 - (III) Preparation of daily sales
- c) Spreadsheet features and terminologies (Row, column, cell, worksheets, charts, data range, etc.)
- d) Loading an existing spreadsheet packages
- e) Worksheets (starting worksheet, data entry, editing, saving, retrieving worksheet, formatting worksheets, e.g., text, cell and columns etc; addition, average counting, multiplication, division, etc.
- f) Printing of worksheet

7. GRAPH

A. Creating graph:

- (i) line graph
- (ii) Histograms

- (iii) pie charts
- (iv) Legends, etc.

B. Editing graphs

C. Formatting graphs:

- (I) Line graph
- (II) Histograms
- (III) Pie-charts
- (IV) Legends, etc.