

Computer Science Unit 1

Computer science is the study of the theoretical foundations of information and computation and their implementation and application in computer systems. The CAPE Computer Science Syllabus provides persons with advanced knowledge, skills and attitudes to enable them to understand the uses and the impact of computer technologies, and to use the technology to create new computer applications for all areas of human activity. This syllabus provides opportunity for the acquisition of knowledge, skills and attitudes as preparation for further studies in Computer Science and the world of work. The syllabus aims to develop an understanding of the components of a computer-based system, comprising hardware, software, communication and end-user.

Aims of the Syllabus:

- Develop a range of cognitive skills, including thinking skills.
- Develop an understanding of the components, architecture and the organization of computer systems.
- Develop an understanding for problem-solving.
- Develop skills to write correct programs to solve problems.

Skills to be Assessed:

- Knowledge and Comprehension
- Application and Analysis
- Synthesis and Evaluation

Pre-requisites of the Syllabus

Any person with a good grasp of the CSEC Information Technology or Mathematics syllabuses should be able to pursue the course of study.

CAPE Grading Schemes

The CAPE examinations uses seven overall grades: I, II, III, IV, V, VI, VII in reporting candidate's overall results along with the profile grades, A, B, C, D, E, F and G.

Candidates receive a report for performance on each Unit. For each Unit, candidates receive:

(a) an overall grade (Grades I to VII) to indicate the quality of performance on the Unit as a whole;

(b) a module grade (Grades A to G) to reflect performance on each module of the Unit.

OVERALL GRADES

GRADE

I

- Shows an excellent grasp of the principles, concepts and skills contained in the syllabus.
- Applies principles, concepts and skills to problem situations and analyses, synthesizes and evaluates issues in a competent manner.
- Organizes information meaningfully and communicates ideas in an effective manner.

II

- Shows a very good grasp of the principles, concepts and skills contained in the syllabus.
- Applies principles, concepts and skills to problem situations and analyses, synthesizes and evaluates issues in a competent manner.
- Organizes information meaningfully and communicates ideas in an effective manner.

III

- Shows a good grasp of the principles, concepts and skills contained in the syllabus. Applies principles, concepts and skills to problem situations and analyses, synthesizes and evaluates issues in a competent manner. Organizes information meaningfully and communicates ideas in an effective manner.

IV

- Shows a satisfactory grasp of the principles, concepts and skills contained in the syllabus.
- Applies principles, concepts and skills to problem situations and analyses, synthesizes and evaluates issues in a competent manner.
- Organizes information meaningfully and communicates ideas in an effective manner.

V

- Shows an acceptable grasp of the principles, concepts and skills contained in the syllabus. Applies principles, concepts and skills to problem situations and analyses, synthesizes and evaluates issues in a competent manner. Organizes information meaningfully and communicates ideas in an effective manner.

VI

- Shows a limited grasp of the principles, concepts and skills contained in the syllabus.
- Shows basic weaknesses in the application of principles, concepts and skills and in analyzing or evaluating issues.
- Shows basic weaknesses in the organizing and communicating of information.;

VII

- Shows a very limited grasp of the principles, concepts and skills contained in the syllabus.
- Shows little or no skills in the application of principles, concepts and skills in analyzing or evaluating issues.
- Shows poor skills in organizing and communicating of information.

MODULE GRADE	DEFINITION
A	Excellent
B	Very Good
C	Good
D	Satisfactory
E	Acceptable
F	Limited
G	Very Limited

NB.

Grades I – V are considered acceptable Grades for further study.