

OBERLIN HIGH SCHOOL
BUSINESS EDUCATION DEPARTMENT
Information Technology
Grade 8 Syllabus

Term One: October – December 2020

Unit 1. History of Computers

1. What is a computer?
2. Early computer development
 - 1.2.1 The Abacus
 - 1.2.2 The Pascaline
 - 1.2.3 Leibniz Calculating Machine
 - 1.2.4 Jacquard Loom
 - 1.2.5 The Difference & Analytical Engine
 - 1.2.6 The Tabulating Machine

Unit 2 Generations of Computers

- 2.1 First Generation of Computers
 - 2.1.1 Type of Technology- (Vacuum Tubes computers)
 - 2.1.2 Program Language
 - 2.2.2 Input, Output, Storage Device
 - 2.2.3 Characteristics
 - 2.2.4 Advantages & Disadvantages
- 2.2 Second Generation of Computers
 - 2.2.1 Type of Technology - (Transistors based computers)
 - 2.2.2 Program Language
 - 2.2.3 Input Output, Storage Devices
 - 2.2.4 Characteristics
 - 2.2.5 Advantages & Disadvantages
- 2.3 Thirds Generation of computers
 - 2.3.1 Type of Technology- (Introduction to the Integrated Circuit)
 - 2.3.2 Program Language
 - 2.3.3 Input, Output & Storage Devices
 - 2.3.4 Characteristics
 - 2.3.5 Advantages & Disadvantages
- 2.4 Fourth Generation of Computer
 - 2.4.1 Type of Technology- (Large Scale Integration/ miniaturization-the chip)
 - 2.4.2 Program Language
 - 2.4.3 Input, Output & Storage Devices

2.4.4 Characteristics

2.4.5 Advantages & Disadvantages

2.5 Fifth Generation of Computer

2.5.1 Type of Technology- (modern computers)

2.5.2 Program Language

2.5.3 Input, Output & Storage Devices

2.5.4 Characteristics

2.5.5 Advantages & Disadvantages

Unit 3 Hardware for Computer Systems

3.1 Types of Computer Systems

3.1.1 Supercomputers

3.1.2 Mainframe Computers

3.1.3 Mini Computers

3.1.4 Micro Computers