

COMPUTER SKILLS





What is Computer Skills ?

COURSE TOPICS

01

Computer Hardware and Software

Define Computers – Components of Mother Board – Input and Output Devices – Storage Devices – Size and performance of Storage Devices – Operating Systems – Software Applications – Software Utilities – Computer Safety.

02

Use of Operating System

Use Windows – Mouse procedures – Desktop Components and Customize – Start Menu – Taskbar – Shortcuts – Installing and Uninstalling Applications – Operating System Utilities – Installing and Updating Anti-virus Applications – Manage Files and Folders (Create, Delete, Copy, Paste, Rename, Arrange, Compress, etc.) – Manage Storage Devices)Partitioning, Formatting, Maintaining)

COURSE TOPICS

03

Document Processing

Interface: Opening MS Word, The file menu, Ribbon Tabs and Groups, Customize Ribbon, Quick Access toolbar

Edit and Format: Arabic and English documents, Font, paragraph, Styles, Cut, Copy, Paste, Format Painter, Find and Replace, Spelling checker, Correcting errors, Grammar checker, Alignment, Bulleted and Numbered Lists

Page Layout: Header and Footer, Page Numbering, Page Size, Page Orientation.

Printing: preview, Printer Setting, Selecting Printer, Print documents

Inserting: Tables, Pictures, Shapes, Smart Art, Word Art

COURSE TOPICS

04

Spreadsheet Processing

Interface: Opening MS Excel, Ribbon, Work Sheets.

Tables: Rows and Columns, Cells, Cell Data Types, Format Cells, Computations in Cells, Format table, Sorting, Filtering

Formulas: Inserting Functions (e.g.: statistical and data time)

Charts: Chart types, Visualize data using Charts, Format Charts

Printing: Preview work sheet, print selected area of work sheet, and print charts.

COURSE TOPICS

05

Presentations

Interface: Opening MS Power Point, Ribbon, Slides.

Slides: Design Theme, Transition

Insert and Format:Text Box, Table, WordArt, Audio, Video, Smart Art and Shapes

Animations : of the elements inside Slide

View Slides:Normal, Outline, Slide Sorter

Printing:preview Slide, print selected slides, print multi-slides in a single page.

COURSE TOPICS

06

Internet Services

Internet: Internet Browser, Sites, Search engines (e.g.: Google), search for information (using text and images), Download files

Email: Create new email account in Google Mail System (Gmail), Send electronic messages, send attachments, Inbox, Sent mail, Drafts, Replay, forward, Carbon copy (Cc), Blind carbon copy (Bcc)

TOPIC 1 : COMPUTER HARDWARE AND SOFTWARE



WHAT IS A COMPUTER ?



Computer is a device can be instructed to carry out a sequences of arithmetic or logical operations automatically in seconds via a computer programming.

In general, a computer is a machine which accepts data, processes it and returns new information as output.



Stage of Develop the computer



- Increase the speed of the computer
- Decrease the size of computer
- Reduce the cost.
- Increase the result's accuracy.
- Ability to store huge amounts of data and information
- Facilitate to use by users.

Generations of Computers



First computer



First Generation (1940-1956) Vacuum Tubes



- ▶ Big size
- ▶ Consumes energy
- ▶ Small memory
- ▶ Used machine language
- ▶ One Operation at a time.
- ▶ Slow
- ▶ Easy to break.



Second Generation (1956-1963) Transistors



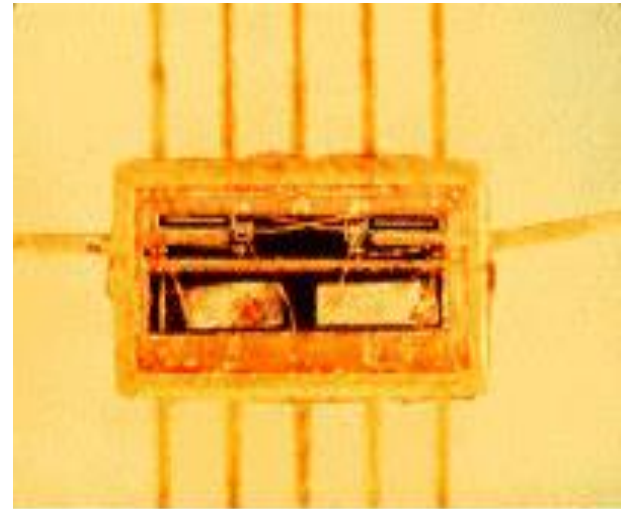
- ▶ Small size than *Vacuum Tubes*
- ▶ more energy-efficient
- ▶ faster
- ▶ Cheaper.
- ▶ Smaller.
- ▶ more reliable than their first-generation predecessors.
- ▶ Use of memory and hard drives.
- ▶ Used assembly languages



Third Generation (1964-1971) Integrated Circuits (IC)



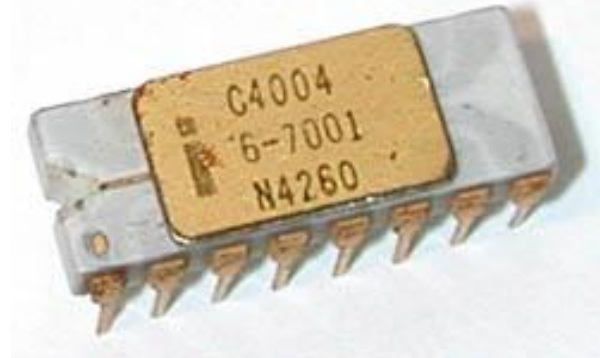
- ▶ Lightweight
- ▶ increased the speed and efficiency of computers
- ▶ Small size .
- ▶ Low cost
- ▶ Minicomputer .
- ▶ Multiprocessors
- ▶ Many tasks at a time.
- ▶ Input & output Device



Fourth Generation (1971-Present) Microprocessors



- ▶ High speed
- ▶ Pc in 1981(IBM 1981 and Apple Macintosh)
- ▶ Developed an program, Operating System and real time Systems
- ▶ Used Floppy disks
- ▶ GUI (Graphic User Interface)
- ▶ Networks & internet 1992.



Fifth Generation (Present and Beyond) Artificial Intelligence



- ▶ based on **artificial intelligence**
- ▶ human operators, learn from its own experiences
- ▶ Some application was developed such as **voice recognition**
- ▶ **Parallel** processing
- ▶ **Quantum computation** and **nanotechnology**



Data and Information



DATA : is described as some raw facts, figures and symbols, such as numbers, words, images, video and sound, given to the computer during the input phase.

INFORMATION : is a manipulate data to create information, . Information is data that is organized, meaningful, and useful. During the output Phase, the information that has been created is put into some form, such as a printed report. The information can also be put in computer storage for future use.

How does a computer work?



INPUT DATA : consists of DATA & INSTRUCTION

PROCESSING : is a set of instructions stored in the computer to carry out the instructions given by the user.

OUTPUT INFORMATION : is the set of results generated after processing the Input.



Classifications of Computer



Divided to 3 kinds base on:

1) Work Method:

- Digital Computer.
- Analog Computer.
- Hybrid Computer.

2) Storage and accuracy in performs the tasks

- Mainframe
- Control Computer
- Micro Computer
- Server Computer
- Workstation

Classifications of Computer



3) Purpose Use :

- General purpose computers
- Special purpose computers

Computer Applications



The computer uses in several areas and works :

- Government departments
- Banks and businesses (companies)
- Education
- Home use
- Medical uses



Thank you

Good Luck