

# FUNDAMENTAL OF COMPUTER & EMERGING TECHNOLOGIES

MCA 1001

INTRODUCTION TO COMPUTER

BY

HIMANSHU SHUKLA

ASSISTANT PROFESSOR

DEPARTMENT OF COMPUTER APPLICATION

UIET, CSJM UNIVERSITY, KANPUR



---

# COMPUTER FUNDAMENTAL

---


## Definition

### ❖ What is a computer?

Computer is an advanced electronic device that convert data into useful information.

Computer is an electronic device that takes raw data as an input from the user and processes it under the control of a set of instructions (called program), produces a result (output), and saves it for future use.

The word **compute** is derived from the Latin word '*computare*', was meaning "arithmetic, calculation". The *Computer* is the digital device that stores information in memory using input devices and manipulate information to produce output according to given instructions.



## ❖ Functionalities of a Computer

There are three basic functionalities of a Computer System and they are

- Input
- Process
- Output

Digital computer carries out the following five functions:

**Step 1** - Takes data as input.

**Step 2** - Stores the data/instructions in its memory and uses them as required.

**Step 3** - Processes the data and converts it into useful information.

**Step 4** - Generates the output.

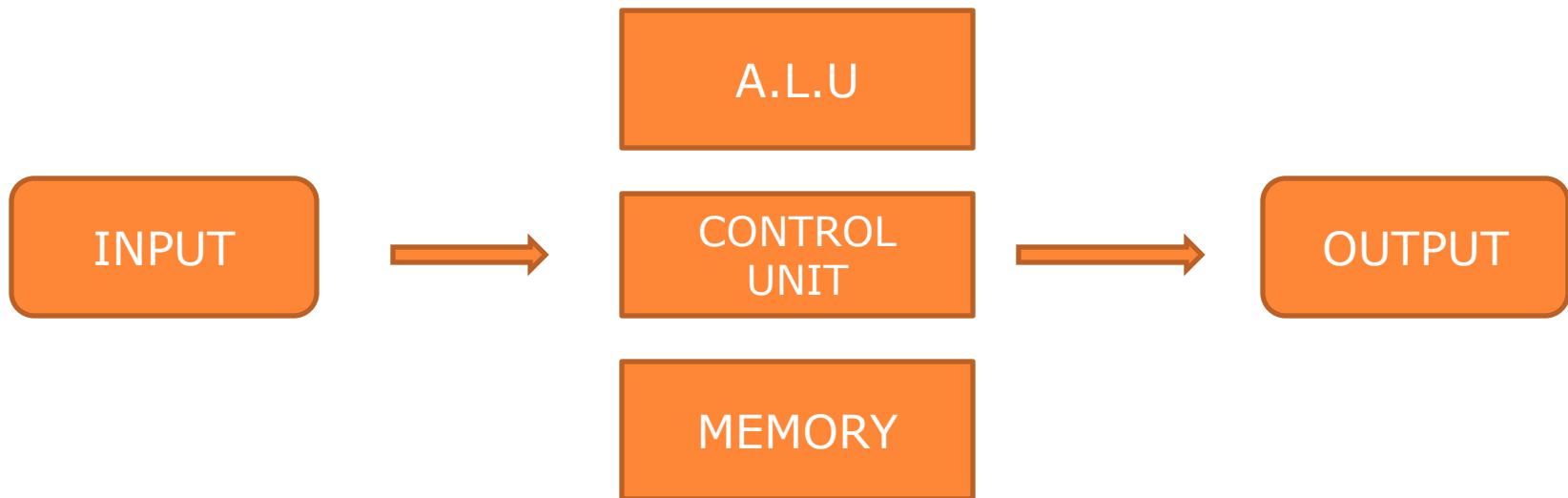
**Step 5** - Controls all the above four steps.



---

# BLOCK DIAGRAM OF COMPUTER

---



## ❖ Advantages of Computers

Following are certain advantages of computers.

- HIGH SPEED
- ACCURACY
- STORAGE CAPABILITY
- DELLIGENCE
- VERSATALITY
- RELIABILITY
- AUTOMATION
- REDUCTION IN PAPER WORK & COST

## ❖ Disadvantages of Computers

Following are certain disadvantages of computer

- NO IQ
- DENPENDENCY
- NO FEELING



## ❖ APPLICATION OF COMPUTER IN VARIOUS FIELDS

- *Business*
- *Banking*
- *Insurance*
- *Education*
- *Marketing*
- *Healthcare*
- *Military*
- *Communication*
- *Government*



❖ References:

1. Fundamental of Computers – By P.K. Sinha
2. Fundamental of Computers – By V.Rajaraman B.P.B.Publication
3. [www.tutorialspoint.com](http://www.tutorialspoint.com)
4. <https://www.javatpoint.com/computer-fundamentals-tutorial>
5. <https://www.tutorialsmate.com/>
6. <https://ecomputernotes.com/>

