



# **SNS COLLEGE OF TECHNOLOGY**



**Coimbatore-36.**

**An Autonomous Institution**

**Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A+’ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai**

**COURSE NAME : 19CST101 – PROGRAMMING FOR PROBLEM SOLVING**

**I YEAR/ I SEMESTER**

**UNIT – I INTRODUCTION TO PROBLEM SOLVING TECHNIQUES**

**Topic: Fundamentals of Computer, Computer Hardware, Computer Software**

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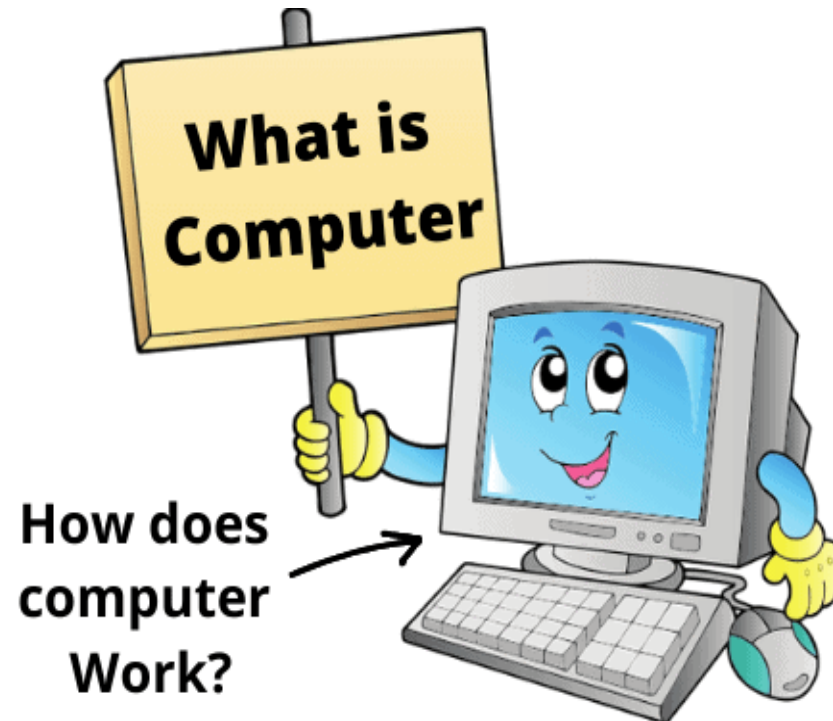
**Department of Computer Science and Engineering**



# *Fundamentals of Computer*

## What is Computer?

- The computer is an electronic machine that takes input from user, process the given input and generates output.
- In the form of useful information.
- The input is data, programs, user reply.





# Fundamentals of Computer

Parts of Computer:





# *Fundamentals of Computer*



## **Functionalities of Computer:**

1. Input Function
2. Processing Function
3. Output Function
4. Storing Function



# *Fundamentals of Computer*



## Characteristics of Computers:

1. High Speed
2. Accuracy
3. Storage Capability
4. Diligence
5. Versatility
6. Reliability
7. Automation
8. Reduction in Paper Work and Cost





# Fundamentals of Computer

## Generations of Computer:

Generations	Period	Technology
Early Period	1000BC-1940	Abacus, Pascal
1 <sup>st</sup> generation	1946-1954	Vacuum Tubes
2 <sup>nd</sup> generation	1955-1964	Transistors
3 <sup>rd</sup> generation	1964-1977	Integrated Circuits
4 <sup>th</sup> generation	Since 1975	Large Scale Integration
5 <sup>th</sup> generation	Since 1980	Artificial Intelligence

Generations of computer



First Generation



Second Generation



Third Generation



Fourth Generation



Fifth Generation





# *Fundamentals of Computer*



## **Classifications of Computer System:**

- **Classification of Computers On the Basis of Size**
  1. Micro Computer
  2. Mini Computer
  3. Mainframe computer
  4. Super Computer
- **Classification of Computer On the Basis of Type**
  1. Analog Computer
  2. Digital Computer
  3. Hybrid Computer
- **Classification of Computer According to Purpose**
  1. Special Purpose computer
  2. General Purpose computer



Thank  
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