

# CS & IT ENGINEERING



Basics Of Computer System

Components of Computer

Lecture No.- 01

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# Topics to be Covered



**Topic**

**Computer Architecture**

**Topic**

**Computer Organization**

**Topic**

**Components of Computer**

**Topic**

**CPU, Memory & IO Devices**



## Topic : Introduction



### ❑ **GATE Ranks:**

- 682 (2009) – 3rd year
- 19 (2010) – 4th year
- 119,440 etc.

### ❑ **Education:**

- ME from IISc Bangalore
- M. tech from BITS-pilani in Data Science

### ❑ **Work:**

- 17+ Year Teaching Experience
- 13+ in GATE/IES
- Worked in Cisco, Audience Communication





## Topic : Syllabus

Lecture Number	Topic
1	Components of Computer
2	How a Computer Works
3	Data in Computer System
4	Number System
5	Binary and Power of 2s
6	Units & Conversions
7	Various Terminologies
8	Memory System
9	Basics of Operating System
10	Basics of Data Structures



## Topic : Computer Organization & Architecture

### Computer Architecture:

- Conceptual design and fundamental operational structure.



what components  
&  
what each component does





## Topic : Computer Organization & Architecture

### Computer Architecture:

- Conceptual design and fundamental operational structure.

*Implementation*

### Computer Organization:

- Deals with physical devices and their interconnections
- With a perspective of improving the performance.





# Topic : Components of Computer → Basic

- CPU (Central Processing Unit) :- (master of computer)  
(Processor)  
or  
(Microprocessor)
  - CU (Control Unit)
  - ALU (Arithmetic Logic Unit)
- Memory:
  - Primary (main) memory ⇒ RAM (Temporary memory)
  - secondary (Auxiliary memory) ⇒ Hard disk, SSD (Permanent memory)
- I/O Devices:  
Input-output
  - Input devices:- keyboard, mouse, camera, microphone
  - output devices:- monitor, printer, speaker
  - storage devices:- pendrive, CD/DVD

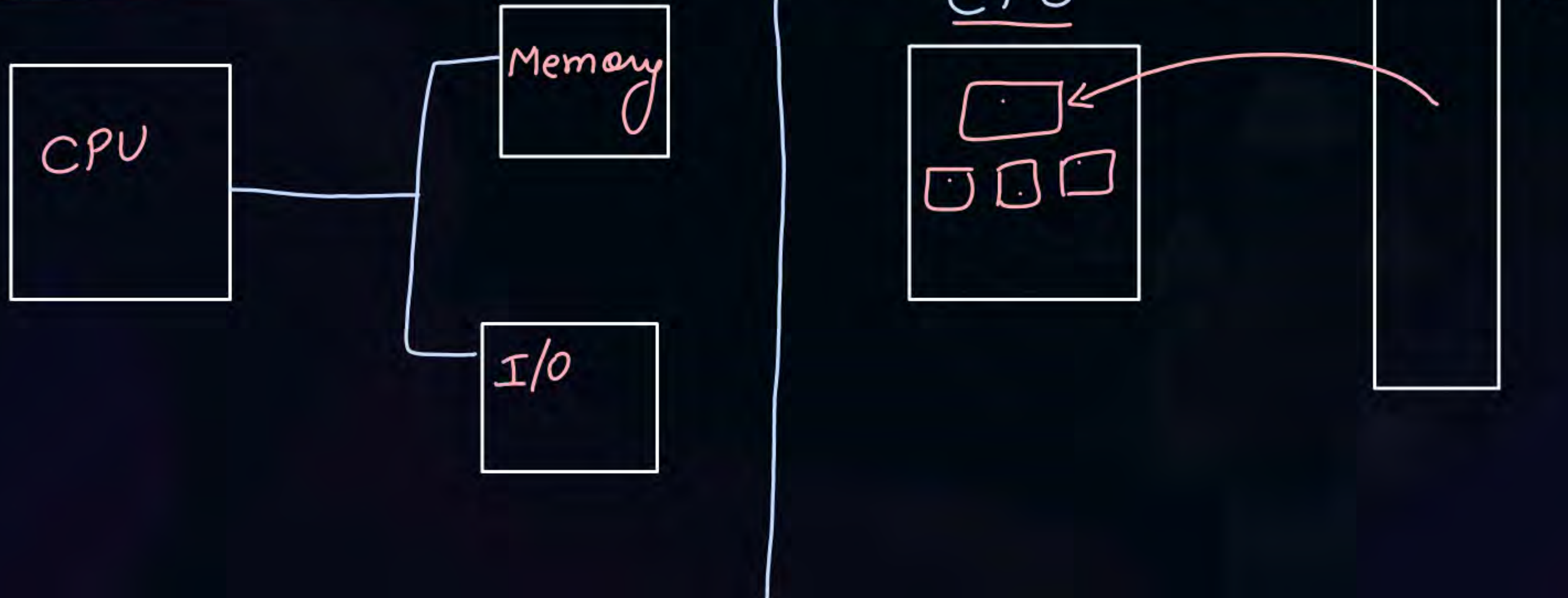




## Topic : Other Components

- System Buses  $\Rightarrow$  wired connection between components of computer  
bus contains more than one wire (line).
- CPU Registers

$\hookrightarrow$  small memories inside CPU to carry out processing.







## 2 mins Summary



**Topic**

**Computer Architecture**

**Topic**

**Computer Organization**

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**Components of Computer**

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**Happy Learning**

**THANK - YOU**