



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:

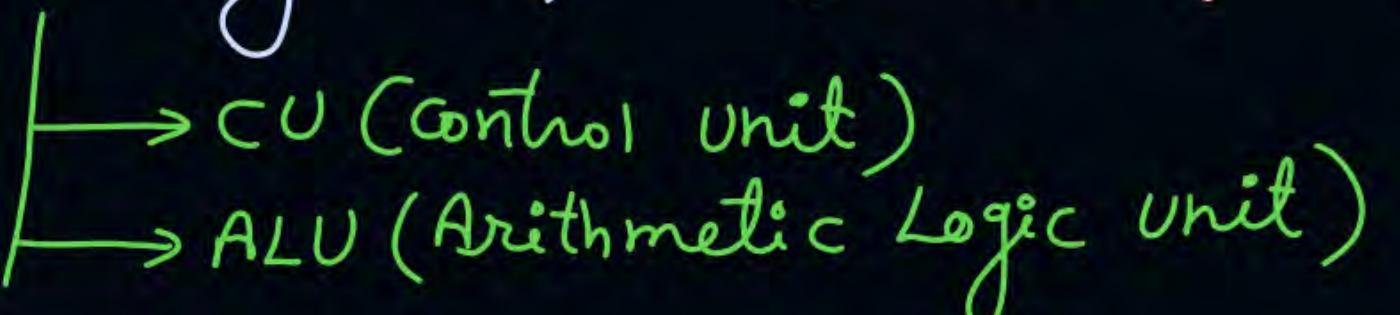
- Deals with physical devices and their interconnections
- With a perspective of improving the performance.



Topic : Components of Computer

→ Basic



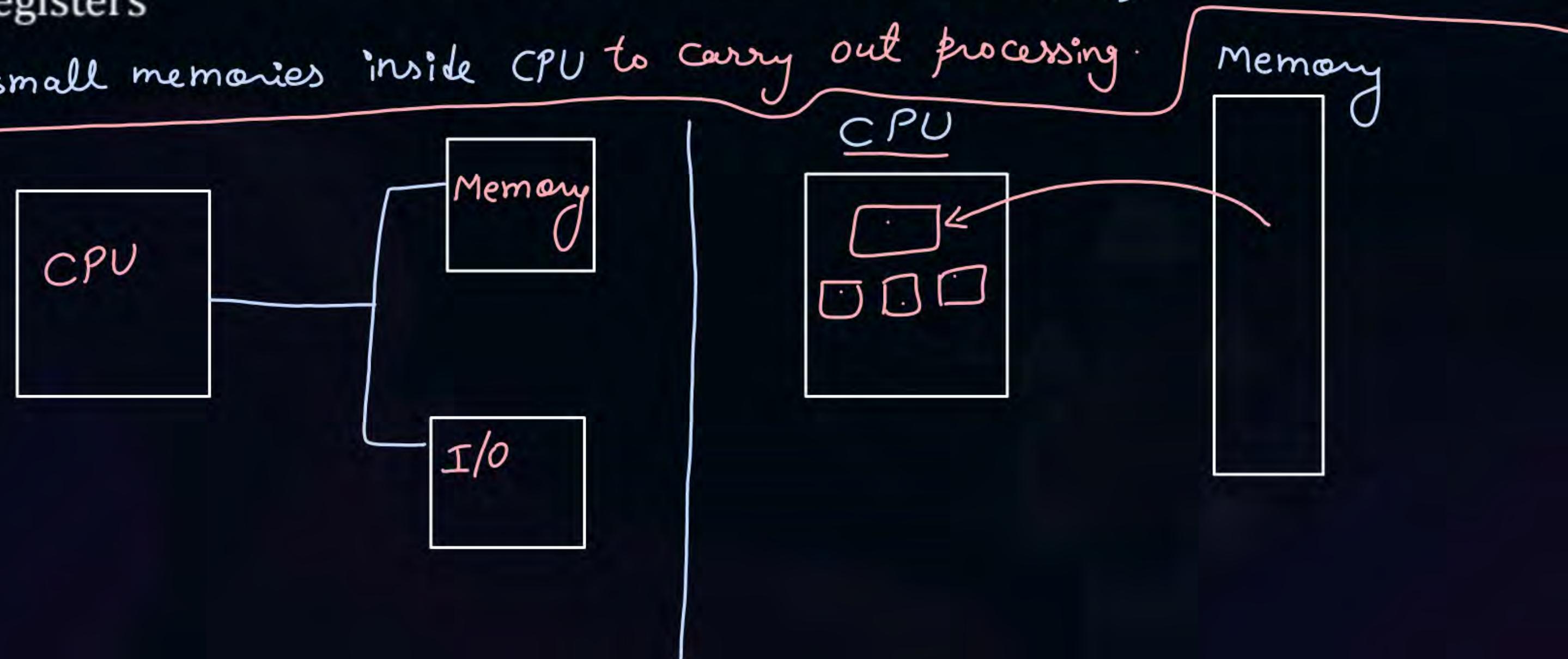
- CPU (Central Processing Unit) :- (Master of Computer)
(Processor)
(Microprocessor) 
 - CU (Control Unit)
 - ALU (Arithmetic Logic Unit)
 - Memory:
 - Primary (main) memory \Rightarrow RAM (Temporary Memory)
 - Secondary (Auxillary memory) \Rightarrow Hard disk, (Permanent Memory)
SSD
 - I/O Devices:
 - 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

Topic Components of Computer

Topic CPU, Memory & IO Devices



Happy Learning

THANK - YOU