



# CS & IT ENGINEERING



## Basics of Computer System

## Various Terminologies

Lecture No.- 07

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# Recap of Previous Lecture



Topic

Power of 2

Topic

Units of Time

Topic

Unit Conversion

# Topics to be Covered



Topic

CPU Cycle

Topic

Memory Cycle

Topic

Memory Access Time

# CPU Cycle

In one cycle CPU can perform one operation.

# Memory Cycle

In one memory cycle, memory can perform one operation.  
↓  
read or write

# Memory Access Time

Time required to read or write one content in a memory.

# Throughput

⇒ No. of operations performed in one unit time

if  $t$  unit time required to perform  $n$  operations

$$\text{In } 1 \text{ --||-- , no. of operations} = \frac{n}{t} \quad \text{throughput}$$

# Speedup or Performance Gain

Used to compare 2 machines  
or  
techniques  
or  
softwares  
or  
hardwares } which perform same task

performance gain of technique 2, as compared to technique 1 =  $\frac{\text{technique 1 time}}{\text{technique 2 time}}$



## 2 mins Summary



**Topic** CPU Cycle

**Topic** Memory Cycle

**Topic** Memory Access Time



**Happy Learning**

**THANK - YOU**