

## Class-1

### OS

L 1) Fundamental

ii) process ~~sync~~ and process synchronization

iii) Dead lock

iv) CPU schedule.

v) memory management

vi) virtual Memory.

## 2nd class 10.5.23

→ Four component of a computer system.

→ What OS do.

→ OS definition.

↳ OS is a resource allocator.

↳ " " " control program.

→ computer startup.

1) Bootstrap program

→ computer system organization

→ common function of interrupts.

↳ interrupt vector.

→ Trap exception.

→ Interrupt driver.

⇒ Interrupt handling.

↳ polling.

↳ vector interrupt system.

⇒ Interrupt Timeline.

⇒ storage Defi and Notation Review (Less Imp)

↳ computer Networking & always bit/sec.

↳ programming and others & byte/sec.

⇒ storage - Device Hierarchy.

cost minimize wise hierarchy of

storage device for data storage

⇒ caching

→ data which is not in memory but is in temporary storage

from slower device to faster device → caching.

→ DMA concept

↳ CPU send the DMA controller the size of data transfer and it will send the data

⇒ operating - system structure.

↳ ① multiprogramming. (batch system).

↳ ② Timesharing (multitasking).

↳ CPU scheduling

Job scheduling

memory management

↳ Virtual Memory.

⇒ mode bit = 1  
user mode

⇒ Kernel mode  
mode bit = 0

⇒ process management

→ "program vs process"

ସ୍ୱାଧୀନ ଅଟେ program, କେବଳ ଏକ process.

Inactive mode " , Active mode "

↓  
→ state<sup>2</sup> save କରିବା

⇒ memory management

End of chapter-1