## Module-1

H

Functional units

Functional units

Basic operational concepts

Bus structure

Software performance

computer Generations

Multiprocessors us multicompute

pata representations Fixed point floatingpoint.

conversions

Binary to Hexa ) pecimal of

> Hexa - Biroxy octor pecimal

Octal - Binal Heace De cimal

complements - i's comple

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2/5(1 2 111

Signed - A+B, A-B, A-B, A=B)

· Binary codes

Distractionic/ Module -2 Milnimization of Logic- K-Map universal gates, (wand, NOR) (AND, OR, NOT] combinational vircuit, HA, FA, MUX, DEMUX, Enlader Decody Distallogican sequential crocurb S-RP-K J-K T SR ? Resister JK & counter Shift register [SR, D, JK) counters [JK,T] PLDS

Module 3 Gigner Fixed point -Avithematic Addition subtraction Multiplication \_ Booth DIVISION A- Flooting points Addetion substrach - receltiplication DIVISION Imple mentation with Helw Instruction set Addressing Modes red 13 + Basic Machine Instruction -IA-32 pentium excapt 161627 0004 2114143637475

## Module his

(2)

## Processor organization

A Sold Short Transfer - LA

Reddall Rose Cultion of Instruction - LA

Reddall Multiple Bus organization-LA

Sold Cultiple Bus organization-LA

You may get control Nicsapso grammed control

and of the

Topic > covex

## Memory organization B - concept of Memory RAM, ROM (H) Memory organization RAM, ROM (H) Memory hierarchy - (13,14) Cache memories ... Large Nextual memories ... Secondary Storage. Memory Management

Module 5?
I Module 5!
I -
15 Totraduction to 1/0-23
- units Introduction to I/0-23
- unit-9 Intersupts - H/w >
· unit- I Enabling & disabling intersoph (4.5)
(4.5)
& Device Device Corroc
I (onto)
Device Device control control pocumet)  APDMA -) Seprate
unity on Interface circuits [ printer to
connect
Key Board to
- Unit I (12-13) Processor connection,
connella.
unity Standard I/O - [14-17]
Long Imp > Threeself
arsiver DMA Interfale standard
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A Company of the Comp
Introduction to I/o eq [12]
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CONFOC MA
Intersupts & Enablin duelles