11	Date: Page No.:
3/7/	
	rerequisites:
	Prerequisiter: * Lumber System * Digital logic basic decoder Multiplex To structions
	* Digital logic basic des des
	Multiplex
-	Instuctions
	dreliles ture us
	Architecture VS Organization
	· Architecture:
777	a Called the think
	shutus design p fundamental operations
	Conceptual design & fundamental operatione Structure. Chu design = Intrastructure design = Adversing modes, Data format
	for assyn - Adversing models, Date former
	· Organization: Implementation of com architecture
	· Organization: Implementation of Com. architecture.
	Connection.
	e with a perpective of improving the
	performance
	Additional remains de most libration de
0	How the cou will communicate with memory?
	how we an improve the performance of
	memory access - Am cacle memory
	memory access - Am cache memory These are organizational decisions
	we are implementing all those devices like
	the memory, io devices and
	we gre improving the performance.
	we are improving the performance.
	100 bod alt was to deciden

Organization: - I/o organization - Mimory or ganization

performance organization

Improvement Date format (in binary)

Fixed point representation

Locharacter

Locharacter Fixed point representation Signed Lumber unsigned 2's Complement Signed Magnituted 5 = 101 6 = 110 9 = 1001 in the form of binary characters as well, not directly Like: askii depresentation is one Chard, ASCI EBCDIC -Binary Code decimal : bed is only for numbers So that the bid got extended and that extension is

	Date:Page No.:
Ebedic	
	characters also in the form of binary.
	Course Structure - COA
	2. Instruction Adressing modes 3. CPU doi:
1	4. 1/0 Organization
76	6 Performance (parallel processing bibelining)
	Day formate
	Time reduction is Continual phenomena
*	Punch card computers
	If suppose you wanted to sun a program on
	bunch and Now you put that puch punch cand
1	on their bunch card where you type
(If Suppose you wanted to sun a program on a computer you type down program on bunch and now you put that punch punch card in that kind of machine and you not one there punch card where you type down the input now you give that punch card to machine
	Suppose if program is not correct then we

Suppose if program is not correct then we need to write it again on another funch card this was the manual work.

That imanual work eliminated by Von Neumann's Architecture Processof Idedicated/ memory & XI/o devices/ the attached the dedicated memory to processos to store the program, input, date, instructions * All the current modren day computers having some architecture it is also knowns as prinction architecture or stored program architectures Bottleneck: The instruction and data both Cannot be fetched from memory Simultaneously. This Issue is solved by harver professors knows as had and anchalmentering architectures by adding one more memory. But this architecture not implemented This to implementation of cache systems we us this architecture 1 Jmm CPU Ficache & Junified / Id-cooke & Cache If can keep both data and instruction. date Level 2 Cache The Good Paper