LESSON PLAN

Name of the Faculty: Aarti Sharma

Discipline: Computer Engineering

Department: Computer Engineering

Semester: 4th

Subject: Computer Organization

Lesson Plan Duration: 15 weeks

**Work load (Lecture / Practical) per week (in hours): Lectures-03

Week	Theory		
	Lect. Day	Topic (including assignments /tests)	
1 st Week	1 st	Hardware organisation of computer system Basic Principle: Basic about Computer System	
	2 nd	CPU organization: general register organisation	
	3 rd	Stack organization	
	4 th	Instruction formats : Introduction	
Week 2	1 st	Three address, two address,	
	2 nd	One address, zero address	
	3 rd	RISC instruction	
	4 th	Addressing modes: Immediate, register	
Week 3	1 st	Direct, in direct,.	
	2 nd	Relative, indexed	
	3 rd	CPU Design: Micro Programmed vs. hard wired control.	
	4 th	CPU Design: Micro Programmed vs hard wired control.	
Week 4	1 st	Reduced instruction set computers Reduced instruction set computers	
	2 nd	Reduced instruction set computers Reduced instruction set computers	
	3 rd	CISC characteristics	
	4 th	RISC characteristics,	
Week	1 st	Comparison between CISC & RISC	

5	2 nd	Assignment on CPU Organization
	3rd	Assignment on CPU Design
	4 th	Discussion on unit 1
Week 6	1 st	Memory organization: Basics About Memory
	2 nd	Memory Hierarchy
	3rd	RAM and ROM chips
	4 th	Memory address map
Week 7	1 st	Memory connections to CPU
	2 nd	Auxillary memory : Magnetic disks
	3 rd	Auxillary memory : magnetic tapes
	4 th	Associative memory
Week 8	1 st	Cache memory
O	2 nd	Virtual memory
	3 rd	Memory management hardware
	4 th	Assignment on Memory Hierarchy
Week 9	1 st	Assignment on Auxillary memory
	2 nd	Test
	3 rd	I/O organization: Basis Input output system(BIOS)
	4 th	Function of BIOS
Week 10	1 st	Testing and initialization
	2 nd	Configuring the system
	3 rd	Assignment on BIOS
	4 th	Modes of Data Transfer
Week 11	1 st	Programd I/O
	2 nd	Synchronous, asynchronous and interrupt initiated
	3 rd	Synchronous, asynchronous and interrupt initiated
	4 th	DMA data transfer
Week	1 st	Assignment on modes of Data Transfer

12	2 nd	Test
	3 rd	Architecture of multiprocessor systems: Introduction about
		Multi processor systems
	4 th	Architecture of multiprocessor systems
Week 13	1 st	Forms of parallel processing
13	2 nd	Parallel processing and pipelines
	3 rd	Basic characteristics of multiprocessor
	4 th	Assignment on multiprocessor System
Week 14	1 st	General purpose multiprocessors'
17	2 nd	Interconnection networks: time shared common bus
	3 rd	multi-port memory
	4 th	cross bar switch
Week 15	1 st	multi stage switching networks and hyper cube structures
13	2 nd	multi stage switching networks and hyper cube structures
	3 rd	Assignment on Interconnection networks
	4 th	Test