

## ELECTRONICS DEPARTMENT, VTI ROHTAK

**Name of Faculty** : Anil Tomer (Theory and Practical)  
**Dicipline** : Electronics and Communication  
**Semester** : 6 th Sem.  
**Subject** : MOCS  
**Lesson Plan I** : 15 Weeks (From January 2018 to April 2018)

Week	Theory		Practical	
	Lecture Day	Topic (Including Assignment/Test)	Practical Day	Topic
1st	1st	Introduction to different type of mother boards	1st	1. Operation, Maintenance, Installation and Testing of Monitors (LCD and LED)
	2nd	Single Board Based System,		
	3rd	Block diagram of motherboard. Installation of Computer System.		
2nd	4th	Different type of Buses	2nd	2. Operation, Maintenance, Installation and Testing of HDD, Partitioning and Formatting
	5th	PCI, SCSI		
	6th	Serial and Parallel ports (COM ports) Ports COM 1		
3rd	7th	LPT, USB, RS 232 C, use of computer for instrumentation.	3rd	3. Operation, Maintenance, Installation and Testing of DOT Matrix Printer
	8th			
	9th	Controller. Pen Drives,		
4th	10th	common faults with hard disk drive and floppy disk drive	4th	4. Operation, Maintenance, Installation and Testing of Laser Printer
	11th	RAM Module		
	12th	Assignment No. 1 (Unit 1, 2 & 3) Test No. 1		
5th	13th	Block Diagram of keyboard Controller	5th	5. Operation, Maintenance, Installation and Testing of Mother board based on latest microprocessor and chipset CMOS Set up.
	14th	keyboard switches, keyboard faults,		
	15th	Mouses		

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6th	16th	common faults with mouse and optical mouse	6th	6. Operation, Maintenance, Installation and Testing of DVD-ROM/DVD Writer
	17th	Introduction to scanner		
	18th	digitizer.		
7th	19th	Block Diagram, Principle of operation of Computer Monitor,	7th	7. Operation, Maintenance, Installation and Testing of Connectors and Cables
	20th	Difference between TV and solid state displays		
	21st	Printing Mechanism, Construction and working principles of Dot		
8th	22nd	Inkjet Printer, Laser Printer, Printer Controller,	8th	8. Operation, Maintenance, Installation and Testing of MODEM /ROUTER/ SWITCH
	23rd	Centronics Interface, Signals from PC to Printer and printer to PC		
	24th	Assignment 2 (Unit 4 &5), Test No 2		
9th	25th	Introduction to networking devices	9th	9. Installation of any operating system.
	26th	Idea about LAN		
	27th	MAN		
10th	28th	WAN	10th	10. Establish LAN,WLAN, using Networking Devices
	29th	Wi-Fi		
	30th	MLAN		

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11th	31st	ROUTER	11th	11. Study of LAPTOP, IPAD, Smart Phone
	32nd	SWITCH		
	33rd	HUB		
12th	34th	Modems: Need and functions of modems	12th	Experiment No 1, 2, 3 Repeat
	35th	Laptop		
	36th	Laptop functions		
13th	37th	Laptop uses	13th	Experiment No 4, 5, 6 Repeat
	38th	Assinment No. 3 ( Unit 6, 7 &8) Test No.3		
	39th	Unit 1 Revision		
14th	40th	Unit 2 Revision	14th	Experiment No 7, 8, 9 Repeat
	41st	Unit 3 Revision		
	42nd	Unit 4 Revision		
15th	43rd	Unit 5 & 6 Revision	15th	Experiment No 10, 11 Repeat
	44th	Unit 7 & 8 Revision		
	45th	Full Syllabus Revision		