



DIGITAL AND MICROPROCESSOR LABORATORY

Digital and Microprocessor laboratory aims at providing hands on session to students on digital design, 8086 Microprocessor and its interfacing and design of embedded systems using microcontrollers. The laboratory is equipped with 36 Intel Pentium systems with MASM-6.11 and Keil software enabling students to develop programs. The laboratory is also equipped with Digital trainer Kits, Microprocessor (8086) kits and Embedded (8051 and ARM) kits using which students design digital circuits, write and test assembly language programs.

LOCATION : ACADEMIC BLOCK AB1-207				
DIGITAL AND MICROPROCESSOR LABORATORY				
Summary of Hardware and Software Installed in this Laboratory				
HARDWARE				
Sl. No.	System configuration	Brand	No. of systems.	Total
1.	<u>Lenovo Think Centre core i5 mini CPU</u> Intel Core i5/i7 CPU@3.3 GHz, 500 GB HDD, 8 GB RAM, Keyboard, Optical Mouse, Lenovo LCD Monitor	Lenovo systems	18	39
	<u>HP 202 G2 MT</u> Intel Core i5 CPU@3.3 GHz, 500 GB HDD, 8 GB RAM, Keyboard, Optical Mouse, HP LCD Monitor	HP systems (202 G2 MT)	06	
	<u>Dell OPTIPLEX 380</u> Intel Core 2-Duo CPU@2.93 GHz, 320 GB HDD, 4 GB RAM, Keyboard, Optical Mouse, Dell LCD Dell Monitor	Dell Optiplex 380	12	
	<u>Dell OPTIPLEX 3060</u> Intel Core i5 CPU@2.8 GHz, 1TB HDD, 8 GB RAM, Keyboard, Optical Mouse, Dell LCD Monitor	Dell Optiplex 3060	03	

2.	<u>Mac Mini:</u> Intel Core 2-Duo CPU@2.4 GHz, 500GB HDD, 2 GB RAM DDR3, Keyboard, Optical Mouse, 19" LCD Dell Monitor	Apple (Mac Mini)	5	5
3.	<u>Microprocessor Kits:</u> 8086/8088 Microprocessor Kits with LCD Display	Vi Micro Systems Model : Micro 86 /88 LCD	40	40
	<u>Interface Kits</u> 8 Digit Multiplexed (7 Segment Display)	Vi Micro Systems	10	10
	Stepper Motor Controller With Motor	Vi Micro Systems	10	10
	Traffic Light Controller	Vi Micro Systems	10	10
	8-Channel ADC	Vi Micro Systems	10	10
4.	<u>Microprocessor Kits:</u> 8086/8088 Microprocessor Kits with LCD Display	TMI Systems	35	35
	<u>Interface Kits</u> Keyboard Interface Boards	TMI Systems	5	5
	Elevator Interface	TMI Systems	5	5
	Traffic Light Controller Interface	TMI Systems	5	5
	ADC /DAC Interface Board	TMI Systems	5	5
5	ARM Kits	TMI Systems	20	20
6.	Digital /Logic IC Trainer Kit (DLT)	Vi Micro Systems	15	15
7.	Digital IC trainer Kit (DTK)	TMI Systems	80	80
8	8051 RTOS Development Board (VI-51RTOS)	Vi Micro Systems	40	40
	Stepper Motor (2 Kg)	Vi Micro Systems	5	5
9	LPC 2378 Development Board (VI-Arm LPC 2378)	Vi Micro Systems	3	3
10	Analog IC Tester	TMI Systems	1	1
11	Digital IC Tester	TMI Systems	1	1
12	Logic Analyser	DVB100	1	1
13	CRO (DSO)	Bestmach	1	1
14	Intelligent Universal Programmer	Bestmach	1	1
15	Digital IC Tester	TMI Systems	1	1



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		Summary of Hardware and Software Installed in this Laboratory	
		SOFTWARE	No. of License
1	Operating System	Windows7/Windows 10	39 (Microsoft Campus Agreement) (From IRTS)
		MAC OS 10.8 (MAC Mini)	5 5
2	Packages	Msoffice-2007/2010	Microsoft Campus Agreement (From IRTS)
		MASM 6.11	Freeware
		Dos Box 7	Freeware
3	Compiler/Interpreter	Dev C++ 4.9.9.2	Freeware
4	Application	Keil uVision 4.53 for VI micro RTOS Kits	Freeware
		Keil uVision 4.21 for TMI ARM Kits	Freeware
		Ride IDE for VI micro RTOS Kits	Freeware
		Flash Magic 3.68 for VI micro RTOS Kits	Freeware
		Flash Magic 6.01 for TMI ARM Kits	Freeware
		Win X Talk	Freeware
		Win Rar / Winzip	Freeware
5	Tools	C cleaner	Freeware
6	Anti virus	K7 Anti Virus	Campus Agreement (From IRTS)