	195 - PER				T	Examina	tion Sc	hedule	(Mark	<u>s)</u>	
Teaching Schedule Per Week		Progressive Assessment			Theory		Practical Ex.		Total		
Lectures	Practical	Credits	T		3 Hrs	100		50		200	
3	2	5	25	25			otal	TW	PR	Grl	otal
Pre-requisite		Source	Semester	L	Theory	TCSC		50	50	10	0
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HUMAN RESOURCE & CURRICULUM DEVELOPMENT CELL, DIRECTORATE OF TECHNICAL EDN, GOA.VL-XIV, 11-2000

l	YLLABI OF COURSES FOR DIPLOMA PROGRAMME IN MEDICAL ELECTRONICS, LEVEL IV & V		37
. s	YLLABI OF COURSES FOR DIPLOMA PROUKAMME IT THE		
	in the Extended Memory, NOW DIOG,	2	5
	SIMMS, DIMMS, EDO SD KAW S, Manary	2	5
	BIOS Setup.	5	10
-	 INPUT DEVICES Keyboard - Keyboard components, Keyboard interface, Type of key switches, the keyboard connector. Keyboard troubleshooting & repair, defective cables, sticky keys, error code. Mouse- Working principle of a mouse, Mouse types, Mouse cleaning & maintenance. 		
	3. OUTPUT DEVICES How the video board works, CPU & video images, Video Memory, Video board characteristics, Resolution, Colour, Vertical & horizontal scan frequencies, characteristics, device depositors, Video cards - MDA, HGA, CGA, EGA, VGA,	5	10
	Interlaced / non-interlaced monitors, video troubleshooting. SVGA, Multi-frequency monitors, video troubleshooting. Printers :- Impact & Non impact Printers, Principle of operation of dot matrix, Inkjet, Laser & Line printer. Printer maintenance and troubleshooting.	2	5
	4. MEMORY PERIPHERALS Floppy Disk (FDD) :- Drive components, Types of floppy disks and drives, Floppy disk construction - Physical & Logical. FDD installation. FDD errors,	5	10
-	troubleshooting & maintenance. Hard Disk Drive (HDD):- HDD components, HDD drive operation, HDD interface - ST506 / 412, ESDI, IDE SCSI, hard disk installation, HDD problem &	5	10
]	troubleshooting. CDROM Drive :- How CD's store data, Anatomy of compact disk, CD data modes, CD ROM drive operation & specification, CD ROM standards, CD ROM	5	10
	installations and roubleshooting.	5	10
	5. AUDIO HARDWARE The recording process, Playback Process, Sampling, Databits & sound quality MIDI sound board Bench Marks – Decibels, frequency response, S/N ratio, Harmonic distortion, Sentivity, gain	5	10
	6. MODEMS Modem construction & operation, Internal/External modem, Modem features, Modem Commands, Modem Initialisation strings, Modem Modes, Band rate, Modulation Schemes, Signalling Standards – Bell, CCITT, MNP.	3	5
	7. SERIAL & PARALLEL PORT Asynchronous communication: The data frame, signal level, baud rate, Serial Port address & interrupt, DTE & DCE. Serial Port Signals: TX, RX, RTS, CTS, DTR, DSR, Parallel (Centronics) Port Signal, Addresses & Interrupts. Port operation &		
	troubleshooting.	48	10
	Total REFERANCE BOOKS: 1. Upgrading & Repairs by Scott Mueller. 2. IBM PC advanced troubleshooting & repair by Robert C. Brenner. 3. Microcomputer servicing – Practical systems & troubleshooting by Stuart M. Asser, R. F. J. Stigliano 4. Microcomputer & Interfacing by Douglas Hall. 5. Troubleshooting, Maintaining & Repairing PC's by Stephen J. Bigelow (TMH)	Barenbe	rg, V
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