SYLLABI OF COURSES FOR DIPLOMA PROGRAMME IN MEDICAL ELECTRONICS, LEVEL IV & V

17

Teaching		A107.	MEDICAL IN	STRU	MENT	S - 1					
Teaching		4152	WEDLO	Examination Schedule (Marks)							
Teaching Schedule Per Week		Progressive	Theory			Practical Ex.		Ex.	Total		
Lectures	Practical	Credits	7.55.55	3 Hrs 100		0	50			200	
3	3	6		heory	Test	To	tal	I TW PR		Gr To	tal
Pre-requisite Nil		Source MEX	Semester	75 85 1		10	25 50		50	175	-
				13	a S			natrum	ents it	ost com	nonly
ationale: T n the patho principles o	he course de logy departm f operation a	scribes the p sent of any he ad general ty	rinciples, application ospital. Because equipments a pes of equipments a ics is an inter discip	upments woiding linary fie	change detailed id, it rec	with circu puircs	time it dia goo	, we la agrama ad com	y stres and a munica	s on fund alysis of ation with	specia bealti
nodels and	The course is	provided wi	th main applications	for each	type of	instr	unc	nt		Hrs	Mics
CISUMICI.	110 000000	C	OURSE CONTE	NTS						24	50
spectro light s Automati and fr	pectrophoto on of chemi om the clini	r, power sou meter and c cal tests: O cal laborato	rces, wavelength colorimeter. peration of clinica ory, computers in of block diagram of	selector il labora clinical l a contin	tory, flo aborato nuous fl	w oi ry, b ow a	f inf asic naly	ormati know	on to ledge		
used it 2. STER Agents 0	n Autoanaly ILISATIO f sterilisatio	N n, hot air o	ven, steamer, auto	clay rad	iation, u	iltras	sonie	c vibra	tion,	12	25
alcoh	ols, gases at	nd testing of	(distilled doi:							12	25
3. ELEC Basic ele bioch Pco2	ctrode theo emical trans and Pco2 either	ry, Nemst e sducers, pH lectrode, dia fic ion elect	quation, brief ove meter, blood gas agram showing co rode.	electrod	f biopot es, gene on of flo	entia eral l ow th	l ele ploci rou	ctrode k diag gh liqu	s, ram of uid	£ 	10
	Diane spoor.		Total							+0	
PRACT	TICALS Th	e followin	iter counter.	perform	ned by	the	stu	dent	5		

9. Study of the physical layout and circuit tracing of PROJECT: The students will construct on the bread-board and produce satisfactory results of any medical electronic equipments, based on the circuit diagram given by the teacher.

REFERENCE BOOKS: 1. Handbook of Medical Instruments by Khandpur 2. Medical Instrumentation by John Webster

HUMAN RESOURCE & CURRICULUM DEVELOPMENT CELL, DIRECTORATE OF TECHNICAL EDN, GOA.VL-XIV, 11-2000
