

MYMENSINGH POLYTECHNIC INSTITUTE,  
MYMENSINGH  
ELECTRONICS TECHNOLOGY  
SEMESTER PLAN ( 7th SEMESTER)

Subject- Biomedical Instrument(66873)

T P C  
3 3 4

Week	Theory			Practical	
	Content (Specific Objective)	Activity		Content(Practical Job No)	Activity
		Class Test	Learning Materials		
1	<b>Understand the concept of medical terminology.(1.1-1.5)</b>		<b>Ref. books, white board, marker, duster.</b>	Study the operation of ECG machine.	
2	<b>Understand the concept of electrocardiography and electroencephalography.(2.1-2.6)</b>			Study the operation of EEG machine.	
3	<b>Understand the concept of measurement of blood pressure &amp; blood Flow.(3.1-3.6)</b>			Study the basic principle of magnetic blood flow meter	
4	<b>Understand the concept of human respiratory and anesthesia system(4.1-4.7)</b>	CT 1		Study the operation of ultrasonic blood flow meter.	
5	<b>Understanding the concept of medical laboratory &amp; laboratory equipments.(5.1-5.6)</b>			Study the operation of diathermy machine with block diagram.	
6	<b>Understand the instruments used for surgery(6.1-6.6)</b>	QT 1		Study the function of a demand-type synchronous pacemaker with block diagram.	
7	<b>Understand the cardiac device. (7.1-7.8)</b>			Study defibrillator and cardioverter.	
8	<b>Understand the prosthetic device and stimulator. (8.1-8.6)</b>			Study the hemodialysis.	
9	<b>Understand the hemodialysis system. (9.1-9.6)</b>			Study the operation of an X-ray machine with block diagram.	
10	<b>Understand the origin of biopotentials. (10.1-10.6)</b>	CT 2		Study the operation of computerized axial tomography (CAT) scanner.	
11	<b>Understand the concept of ultrasound imaging.(11.1-11.6)</b>			<b>Review. 2&amp; 3</b>	
12	<b>Understand the features of medical imaging system.(12.1-12.8)</b>			<b>Review. 4 &amp; 5</b>	
13	<b>Understand nuclear medical imaging system.(13.1-13.8)</b>	QT 2		<b>Review. 6 &amp; 7</b>	
14	<b>Understand radiation and basis for radiation Safety. (14.1-14.7)</b>			<b>Review. 8</b>	
15	<b>Understand the operation of biomedical measuring instruments.(15.1-15.6)</b>			<b>Review. 9</b>	
16	<b>Review.</b>				

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