

Mymensingh Polytechnic Intitute
Electromedical Technology
Outline Plan of Teching 2nd Semester Student

SEMESTER PLAN PRESENTATION T P C

Subject: MEDICAL PHYSICS AND NUCLEAR INSTRUMENTS(68672) 3 3 4

WEEK	Theory			Practical	
	Content (Specific Objective)	Activity		Content (Practical Job no)	Activity
		Class Test	Learning Material		
1	Understand the concept of medical physics. (1.1-1.5)		Ref. books, White board, marker.	Job no: 1 Study the nature of α , β and γ radiation.	
2	Understand the radioactivity.. (2.1-2.7)			Job no: 2 Study the operation of radiation detectors.	
3	Understand the nuclear particle detectors. (3.1-3.8)			Job no: 3 Demonstrate the operation of pocket dosimeter.	
4	Understand the radiation dosimetry. (4.1-4.9)	CT-1		Job no:4 Demonstrate the operation of dose calibrator.	
5	Understand the biological effect of radiation. (5.1-5.7)			Job no: 5 Demonstrate the operation of Gamma camera.	
6	Understand the radiation protection.(6.1-6.6)	QT-1		Job no: 6 Demonstrate the operation of PET scanner.	
7	Understand the nuclear medicine imaging system. (7.1-7.9)			Job no: 7 Demonstrate the operation of SPECT scanner.	
8	Understand the thyroid radioiodine uptake measurement. (8.1-8.4)			Job no: 8 Demonstrate the operation of linacs.	
MIDTERM EXAMINATION					
9	Understand medical thermograph. (9.1-9.5)			Job no: 9 Demonstrate the operation of Brachytherapy machine.	
10	Understand intensity-modulated radiation therapy (10.1-10.5)			Job no: 10 Visit nearest nuclear medicine center and prepare a report.	
11	Understand production of gamma ray beams (11.1-11.6)	CT-2			
12	Understand particle accelerator(12.1-12.7)	QT-2			
13	Understand brachy therapy machine. (13.1-13.5)				

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