

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

**SEMESTER PLAN PRESENTATION      T   P   C**

**Subject: RADIOLOGY AND IMAGING EQUIPMENT (68662)      3   3   4**

WEEK	Theory		Practical		
	Content (Specific Objective)	Activity		Content (Practical Job no)	Activity
		Class Test	Learning Material		
1	Understand Radiology . (1.1-1.5)		Ref. books, White board, marker.	Job no: 1    Identify different parts of x-ray tube.	
2	Understand x-rays. (2.1-2.5)			Job no: 2    Study the operation of x-ray machine with safety precaution.	
3	Understand x-ray machine. (3.1-3.7)			Job no: 3    Detect the problems of x-ray machine and solve the problem.	
4	Understand x-ray tubes. (4.1-4.6)	CT-1		Job no:4    Process the film of x-ray.	
5	Understand x-ray computed tomography (CT-scanner). (5.1-5.9)			Job no: 5    Operate the digital film processor.	
6	Understand x-ray spectrometers. (6.1-6.5)	QT-1		Job no: 6    Operate the digital film processor.	
7	Understand X-ray crystallography. (7.1-7.5)			Job no: 7    Mention the routine maintenance of digital film processor.	
8	Understand image processing technique. (8.1-8.5)			Job no: 8    Mention the routine maintenance of digital film processor.	
9	<b>MIDTERM EXAMINATION</b>				
10	Understand the magnetic resonance imaging system. (9.1-9.7)			Job no: 9    Identify different parts of ultra-sonogram machine.	
11	Understand ultrasonic imaging. (10.1-10.9)			Job no: 10    Identify different parts of ultra-sonogram machine.	
12	Understand Doppler Imaging. (11.1-11.6)	CT-2		Job no: 11    Troubleshoot and maintenance of ultra-sonogram machine.	
13	Understand Nuclear Medical Imaging. (12.1-12.7)			Job no: 12    Troubleshoot and maintenance of ultra-sonogram machine.	
14	Understand Nuclear Scanner. (13.1-13.5)	QT-2		Job no: 13    Identify different parts of CT Scanner.	
15	Understand Thermal Imaging System (14.1-14.6)			Job no: 14    Troubleshoot and maintain of CT Scanner.	
16	Understand the computer based radiography (15.1-15.5)			Job no: 15    Identify different parts of MRI machine & Troubleshoot and maintain of MRI machine .	

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