Course Overview

Medical instrument II

Course code :	AMT 503
Course title:	Medical instrument II
Level/semester:	Fifth Semester
Preceding Courses & Main Subjects	- Medical instrument I
Credit hours: 3	Theoretical: 2
	Practical: 1

Course content (theory)

التمرينات	عدد	عدد		
العملية	الساعات	المحاضرات	الموضوعات الرئيسية التي يعطيها المغرر	م
			Breathing system	
1	6	3	Breathing circuit components:	1
			1.A fresh gas entry.	
			2.A reservoir bag.	
			3.A carbon dioxide absorber.	
			4.Corrugated tubes for connecting these components.	
			5.Flow unidirectional valves may or	
			may not be used.	
			- Classification of breathing system:	
			Insufflatin.	
			Drow over system	
			Mapleson.	
			Circle system.	
			- Mapleson system classification	
			- Progress of breathing system	
			- Components of circle system	
			-lung functions and capacities:	
1	4	2	TV	2
			ERV	
			IRV	
			RV	
			-canacities:	
			IC	
			EPC	
			NC VC	
			-Measurements of volume and capacities	
			-Dead space and its measurement.	
			- Fowlers Method	

1	3	1	Defibrillator: Definition Function Components Advantages indications Different types Complications	3
1	9	3	Vaporizer : Definitions Components Principle of mechanism of action Development Types and comparison between their action Indications Features of modern vaporizers Hazards of vaporizers.	4
1	6	2	Nerve stimulator: Definition components Principle of mode of action Types of needles Indications complications	5
1	2	1	Operating theatre safety: Ventilation in OT Electricity connections Vacuum system	6

Course Title:-Practical

EXERCISE	CONTENTS	HOURS
1	 general display of medical devices which must be available in operating theatre defibrillator components and types 	2
2	 How to differentiate between multiple types of breathing systems Nerve stimulator components and needles 	1 1
3	 Knowledge of multiple types of mapleson circuits Proper use of each type of mapleson circuit 	1 1
4	 Modality of calculation of lung volumes and capacities Knowledge of fowlers method 	1 1
TOTAL		8