Course Overview

Medical instrument I

Course code :	AMT 406
Course title:	Medical instrument I
Level/semester:	Forth Semester
Preceding Courses & Main Subjects	General Physics
Credit hours: 3	Theoretical: 2
	Practical: 1

Course content (theory)

التمرينات	عدد	वा	الموضوعات الرئيسية التي يغطيها المقرر	
العملية	الساعات	المحاضرات		٩
2	6	3	PRESSURE	1
			Force	
			Examples from anesthetics practice	
			Non-official SI units of pressure	
			Pressure in liquids	
			Gauge and Absolute Pressure	
			Mechanical methods of pressure	
			measurement	
			Atmospheric (barometric) pressure	
2	6	3	Heat and Temperature	2
_	-	-	Definitions	
			Unit of measurement:	
			Specific heat and its anesthetic applications	
			Latent heat and its anesthetic application	
			Transfer of heat	
			Heat loss from the body	
			Temperature scales	
			The SI unit of temperature	
			Non electrical thermometer	
			Electrical thermometer	
2	6	3	Humidity & Humidification	3
			Definitions	
			Anesthetics consideration	
			Physics of humidity	
			Absolute humidity	
			Relative humidity	

			Methods of humidification of inspired gases	
2	6	3	Fluid flow Laminar flow Hagen Poiseuille Formula Turbulent flow - Factors which change laminar flow to turbulent flow - Applications in an aesthetic practice Bernoulli Effect Venture Effect Injector	4
2	4	2	Gas flow measurement Rota meter THE GAS LAW	5

Course Title:-Practical

EXERCISE	CONTENTS	HOURS
1	How to inter change between multiple units of pressure	3
2	Differentiate between various types of temperature scales	3
3	Differentiate between HME and humidifier	3
4	General look of components of anesthesia system of gases	3
Total		12