

Course Book

<p style="text-align: center;">Course Description</p>	<p>The subject is studied in the second semester in Anaesthesia department which is so important because this course connect physical principle of gases and prepared all students to understand how the gases are produced and used during the Anaesthesia processes and this course gave all fundamental states of matters and state changing which is the base concepts of the Anaesthesia and turning the students practically in physical laboratory to makes a good idea about using the electricity , heat and other application of physics in medical filed by a true way in practice work.</p>
<p style="text-align: center;">Course objectives</p>	<p>At the end of this course the student must be understand all the concepts of physics and gases and the relation between them and we cannot separate between them because all types of matters basically generated physically by changing their states.</p>
<p style="text-align: center;">Student's obligation</p>	<p>At the end of the first course the ratio of present student is very good and they obligation through theory and practical lecture,report ,quiz ,seminar and exam , just in same emergency case for student life.</p>
<p style="text-align: center;">Required Learning Materials</p>	<p>Theory: lecture halls with computers equipment for lecture presentations, white board, overhead projector, posters</p> <p>Laboratory practice:</p> <p>General: library, computer suite with internet access .</p>

Evaluation	Task	Weight (Marks)	Due Week	Relevant Learning Outcome	
	Paper Review				
	Assignments	Homework			
		Class Activity			
		Report			
		Seminar			
		Essay			
		Project			
	Quiz				
	Lab.				
Midterm Exam					
Final Exam					
Total					
Specific learning outcome:	<p>Student will be able to</p> <ol style="list-style-type: none"> 1.connect the physics with medical field. 2.Ability to training the students to using the physics in medical instruments. 3.training the students in a physical laboratory for using the electric, current , voltage and instruments by a right and safe way in the work life. 				
Course References:	<p>Key references:</p> <ul style="list-style-type: none"> • Key references : medical physics. • Useful references: Fundamental of medical physics. • Magazines and review (internet): all sites and download books. 				

Questions Example Design

Theoretical

1. Compositional:

- Define the followings: 1.medical physics 2.conduction 3.pressure
-compare between solids, liquids and gases.

2.True or false type of exams:

- 1.Heat is a change in thermal energy –thermal energy being moved from one object to another.
- 2.Entropy is a measure of how much work can be extracted from the internal energy .
- 3.Vapor pressure : the pressure exerted by the gas molecules above a liquid.

Practical:

Q1/prove the followings

Q2/Write the units of the following variables

Q3/Write the aims of the following experiments

Extra notes:

External Evaluator