

## Kut University Colleges



جمهورية العراق  
وزارة التعليم العالي والبحث العلمي  
كلية الكوت الجامعة  
Kut University College



## Dentistry Department

# Course Outline

## MEDICAL PHYSICS

Course Director

M.sc- Rusul Saeed Radhi

Academic Year

2020-2021

<b>Institution</b>	Kut University Colleges
<b>Department</b>	DENTISTRY

## A. Course Identification and General Information:

<b>Course Title</b>	MEDICAL PHYSICS
<b>Credit Hours</b>	6
<b>Program in Which Course is Offered</b>	Dentistry
<b>Name of Faculty Member Responsible for the Course</b>	Course Director Rusul Saeed
<b>Level</b>	ONE
<b>Pre-requisite</b>	NON
<b>Location</b>	Campus

## B. AIMS and OBJECTIVES:

### 1. AIMS OF THE COURSE:

This course introduces physical fundamentals , such as force , force type and all application of force in human body. Pressure in medial physics , in this course study all electric properties and application in electric field. Study physical of eye and dental amalgam and properties of it

### 2. COURSE DEVELOPMENT OBJECTIVES:

*Upon completion of this course, the student will be able to:*

- a. Identify the relationship between physical and medical sciences*
- b. Identify of the most important laws in medical applications*
- c. Apply the basic rules to define and build medical physics*
- d. Link combining forms physics and medical*

### C. COURSE DESCRIPTION:

Topics covered	No. of Weeks	Contact Hours
1-Force on and in the body	2	4
2-Pressure	2	4
3-Physics of radiation therapy	3	6
4-Electricity with in the body	3	6
5-Cardiovascular instrumentation	2	4
6-Application of electricity and magnetism in medicine	3	6
7-Laser in medical	1	2
8-Sound in medicine	2	4
9-Light in medicine	2	4
10Physics of eyes and vision	2	4
11-Dental amalgam	4	8
12-Properties of amalgam	4	8
Total	30	60

### D. FACULTY and STAFF:

- M.sc. Rusul Saeed Radhi

### E. LEARNING RESOURCES:

#### Required Text Book:

University physics / bosh  
General physics / K.W.greemer

### F. FACILITIES:

- The classroom utilizes traditional didactic lecture, data show presentation, and animated simulations of topics under discussion.
- A questions and answers approach centred on enhancing student critical thinking and problem-solving skills is used.
- Clinical emphasis is placed on individual and group study designed to enhance and augment the theoretical portion of the course.

### G. COURSE EVALUATION:

<b>Continuous Assessment first semester</b>	12.5%
<b>Mid- year examination</b>	25%
<b>Continuous Assessment second semester</b>	12.5 %
<b>Final examination</b>	50%
<b>Total</b>	<b>100 %</b>

