



Department of **Biology**

College of Science

University of Salahaddin

Subject: *Medical Physics-**second semester***

Course Book – (**2nd** Year - Medical)

Lecturer's name: *Dr. Dilshad Salih Ismael*

Academic Year: **2022/2023**

Course Book

1. Course name	Medical Physics
2. Lecturer in charge	<i>Dr. Dilshad Salih Ismael</i>
3. Department/ College	Biology/ Science
4. Contact	dilshad.ismael@su.edu.krd
5. Time (in hours) per week	Theory: 2 Practical: 2
6. Office hours	4
7. Course code	
8. Teacher's academic profile	<p>I have more than 15 year experience teaching of different subjects such as: Classical Mechanics, Calculus, Electrical measurements, Electromagnetic Theory , Solid State Physics Lab., Electronics Lab. and General Physics Lab also I have four(2) papers are published in different foreign journals.</p> <p>B.Sc. of Physics from 2001 M.Sc. of Plasma Physics from 2005 Ph.D. of medical physics from 2015</p> <p>Assist Lecturer Oct 2005 – Feb 2015 Instructor Feb 2015 – up to date Assist Prof.</p>
9. Keywords	concepts in physics to living systems
10. Course overview:	<p>The aim of this course is to relate some of the concepts in physics to living systems. In general, the text follows topics found in medical physics texts. The discussion is organized into the following areas: physics of skeleton, heat and cold in medicine, the physics of the lungs and breathing, physics of the cardiovascular system, electricity within the body, physics of the ear and hearing, physics of eyes and vision. The course designed for B.Sc. student's medical branch of Department physics/ college of science /Salahaddin University.</p> <p>validity of the postulates upon which the theory is built.</p>
11. Course objective:	<p>The aim of this course is to relate some of the concepts in physics to living systems.</p>
12. Student's obligation	

The students are required to take two or three exams during the period of the course. 35 marks will be assigned to these exams. 5 marks will be assigned to the assignments given at the end of each chapter(including quizzes) and activities in the class room. There will be a final exam on sixty marks.

ئىرە مامۇستا بەرپر سيارىتى قوتابى خويندكار رووندىكاتەو سەبارەت بە كۆرسەكە بۆ نمونە ئامادەبوونى قوتابيان لە وانەكاندا، لە تاقىكر دنەوكاندا، راپۆرت و ووتار نووسىن... ەتد.

13. Forms of teaching

Our lecture is depend directly on showing the strong point in the lecture via data show depending on the power point program... and solve problem on the white board with the students.

ئىرە مامۇستا رىگەى وانە ووتنەو دەنووسىت، بۆ نمونە: داتاشو و پاومرپۆىنت، سەر تەختەرەش، تەختەى سېى، سمارتبۆرد يان مەلزەمە... ەتد

14. Assessment scheme

The students are required to take two or three exams during the period of the course. 35 marks will be assigned to these exams. 5 marks will be assigned to the assignments given at the end of each chapter(including quizzes) and activities in the class room. There will be a final exam on sixty marks.

ئىرە مامۇستا جۆرى ەلسەنگاندن (تاقىكر دنەوكان يان ئەزمونەكان) دەنووسىت بۆ نمونە تاقىكر دنەوى مانگانە، كوزەكان، بىركر دنەوى رەخنەگرانە (پرىزەنتەيشن)، راپۆرت نووسىن، ووتار نووسىن يان ئامادەبوونى خويندكار لە پۆلدا... ەتد. ئامانە چەند نمرەى لەسەردەبىت و مامۇستا چۆن نمرەكان دابەشەكەت؟

15. Student learning outcome:

پىركر دنەوى ئەم خانەبە زۆر گرنگە، مامۇستا دەرئەنجامەكانى فېرىبون دەنووسىت. بۆ نمونە: روونى ئامانجە سەرەكەكانى كۆرسەكە (بابەتەكە) بۆ خويندكار گونجاندنى ناوەرۆكى كۆرسەكە بە پىوىستى دەروە و بازارى كار قوتابى چى نوئى فېردەبىت لە رىگەى پىدانى ئەم كۆرسەو؟

This should not be less than 100 words

16. Course Reading List and References:

Medical Physics By John R. Cameron and James G. Skofronick

- Key references:
- Useful references:
- Magazines and review (internet):

17. The Topics:

Lecturer's name

<p>Chapter 1: Terminology & Measurement (1week)</p> <p>Chapter 2: Forces on and in the Body (2week)</p> <p>Chapter 3: Forces on the Bone and Muscles. (2weeks)</p> <p>Chapter 4: Pressure in the Body (2 weeks)</p> <p>Chapter 5: Cardiovascular System. (2weeks)</p> <p>Chapter 6: Physics of the sound (2week)</p>	<p>Dr. Dilshad Salih Ismael ex: (2 hrs)</p>
<p>18. Practical Topics (If there is any)</p>	
<p>In this section The lecturer shall write titles of all practical topics he/she is going to give during the term. This also includes a brief description of the objectives of each topic, date and time of the lecture</p>	<p>Lecturer's name ex: (3-4 hrs)</p>
<p>20. Extra notes: Here the lecturer shall write any note or comment that is not covered in this template and he/she wishes to enrich the course book with his/her valuable remarks.</p>	
<p>21. Peer review پیداچوونہوہی ھاوہل This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section. <i>(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).</i> ئەم کۆرسبووکە دەبیت لەلایەن ھاوہلێکی ئەکادیمیەوہ سەیر بکریت و ناوہرۆکی بابەتەکانی کۆرسەکە پەسەند بکات و جەند ووشەپەک بنووسیت لەسەر شیاوی ناوہرۆکی کۆرسەکە و واژووی لەسەر بکات. ھاوہل ئەو کەسەپە کە زانیاری ھەبیت لەسەر کۆرسەکە و دەبیت پلەہی زانستی لە مامۆستا کەمتر نەبیت.</p>	