ERCIYES UNIVERSITY
MEDICAL FACULTY

CODE | MED107 | LOCAL CREDITS: 5
TITLE | BIOPHYSICS | ECTS CREDITS: 5

STAGE OF STUDY | FIRST YEAR, SPRING SEMESTER

Coordinating Lecturer

ALL CONTACTS CONCERNING SOCRATES / ERASMUS PROGRAMME
AT THE DEPARTMENTAL LEVEL SHOULD BE ADDRESSED TO:

Name: Yusuf Caner, Professor Dr
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Tel: + 90 352 4374901/ 23250-52-54-55
e-mail: canery@erciyes.edu.tr

Department: BIOPHYSICS

DURATION | 5h/week

TOTAL CLASSROOM HOURS:/ semester (Theory) | 70h.

COURSE TYPE | Required

REQUIREMENTS:

AIMS:
The purpose of this course is aim to physician will be the medical students and knowledge, skills and attitudes purpose of training about health issues in the biophysics lectures, induced with cell, tissue, circulation, metabolism and neurobiophysics, provide a lot to think and learning by encouraging to question, for the development of skills of special analysis and synthesis, biophysics lectures including of researchers and questioning concepts will understand in level courses, support with physics and other subjects, introduced with other specific biophysical research,
analysis and interpretation method and last version produced by the era of scientific needed in health sciences

**METHODOLOGY:**
We were established in 1993, in departments of biophysics since that date in our university of student, content of biophysics lecture for understanding the structure and functions of systems of the body and organ (tissue, respiratory, circulatory, nervous and metabolism), given to about with health issues and other things together, reasoning based on, thinking, questioning and implement, scientific and technological developments, changes in professional practices and meet the needs of the community will strive to learn ways to reach the level of knowledge aims to educate students.

**LITERATURES:**


5. otherness

**GRADING INFORMATION AND CRITERIA:** The student attending this course is evaluated within the low regulations of Medical Faculty, Erciyes University

**LANGUAGE:** Turkish

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the electromagnetic spectrum and its sources, photoelectric effect 4
normal electrocardiogram (EKG), heart’s electrical axis account from QRS complex with EKG 4
neuro biophysics, membrane biophysics, balance the potential 6
subthreshold, threshold and above the threshold events: membrane potential changes with time and distance, action potential, voltage clamp technique, patch clamp method 10
cybernetics, control systems 4
radioactivity, the distance rule, radiation protection measures, characteristics of the standard human 6
laser, electron microscopy, SEM, ESEM preparation 4
sensory systems, optical and wave phenomena, optical instruments discrimination / solution power 6
The mechanism of auditory and sound 5
The mechanism of vision, a special sense of vision and oculomotoric \[\Sigma 60 \text{ h/semester} \] 5

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70 h/semester