

LECTURES
«FUNDAMENTALS OF PHYSICAL METHODS OF
DIAGNOSTICS AND THERAPY»
Anglophone Students of the 1 Course
2 term of 2020/2021

No.	Lecture Theme
1	Transport of substances across cell membranes. Bio-electric potentials
2	Passive and active electrical properties of biological tissues. Physical fundamentals of Electrography
3	Acoustics. Physics of hearing. Acoustic methods in Medicine
4	Interaction of light with a matter: absorption and scattering
5	Luminescence. Lasers.
6	Photobiological processes. Photomedicine. Physics of vision
7	Interaction of ionizing radiation with a matter. Radiobiology. Diagnostic and Therapeutic Radiology
8	Nonionizing Medical Introscopy: Ultrasonic Echolocation, Thermography, Magnetic resonance imaging

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И.о. зав. каф., д.м.н.

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