LECTURES

«PHYSICS, MATHEMATICS»

Anglophone Students of the 1 Course

Specialty «GENERAL MEDICINE»

1 term of 2024/2025

- 1 Mechanical properties of biological tissues
- 2 Physical issues of hemodynamics
- 3 Mechanical oscillations and waves. Doppler effect. Sound. Ultrasound. Infrasound. Applications in Medicine
- 4 Biomechanics. Fundamentals of statics. Forces. Levers
- 5 Passive electric properties of biological tissued
- 6 Electric current (DC and AC). Effects of electric current and electromagnetic fields on biological tissues. Physical fundamentals of Electro-physiotherapy
- 7 Biological and Artificial membranes. Biopotentials
- 8 Active electrical properties of biological tissues. Physical fundamentals of Electrocardiography and Electroencephalography
- 9 Electromagnetic waves. Wave properties of light. Optical Coherence Tomography

Утверждено на заседании кафедры 2	26 августа 2024 года, протокол № 11.
зав. каф., д.м.н	Т.В. Мачнева