

SCHEDULE OF CLASSES
«MEDICAL AND BIOLOGICAL PHYSICS»
Anglophone Students of the 1 Course
Specialty «GENERAL MEDICINE»
2 term of 2024/2025

Module	Class No.	Theme
Module 1. Medical equipment. Optics	1	Medical equipment
	2	Sensors, electrodes and amplifiers in medicine. <i>Lab. Work No.9. Lab. Work No.11 (Task 3)</i>
	3	Wave properties of light. Interference and diffraction of light. Application in medicine. <i>Lab. Work No.16. Wave properties of light: BRIEF DESCRIPTION</i>
	4	Polarization of light. Polarimetry. <i>Lab. Work No.14</i>
	5	Geometric optics. Refractometry. Fiber optics and its application in medicine. <i>Lab. Work No.12</i>
	6	Lenses. Microscopy in Medicine and Biology. Microscopy types. <i>Lab. Work No.13. Lenses, Magnifier: BRIEF DESCRIPTION</i>
	7	COLLOQUIUM 1
Module 2. Elements of photo- and biophysics. Ionizing radiation.	8	Absorption and scattering of light. Concentration colorimetry. <i>Lab. Work No.15</i>
	9	Physics of Vision. <i>Lab. Work: Optical system of the eye</i>
	10	Physical fundamentals of Thermography. <i>Lab. Work No.17</i>
	11	Lasers. Laser radiation. <i>Lasers: BRIEF DESCRIPTION</i>
	12	Radioactivity. X-ray radiation. <i>Radioactivity: BRIEF DESCRIPTION</i>
	13	Dosimetry of ionizing radiation. <i>Lab. Work: Background radiation measurement</i>
	14	Physical factors of production. <i>Physical factors of production: BRIEF DESCRIPTION</i>
	15	COLLOQUIUM 2
	16	FINAL CONTROL

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