

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

Module	Class No.	Theme
1. Medical apparatus	1	Medical apparatus: classification; electrical safety; reliability. Devices for reading of biomedical information
	1.1	Sensors. Laboratory work No.11
	1.2	Physical fundamentals of electrocardiography. Laboratory work No.14
	1.3	Electrical properties of biological tissues. Laboratory work No. 9
	1.4	Physical processes in tissues under the action of current and electric and magnetic fields. Laboratory work No.12
	1.5	Acoustics. Laboratory work. No.3
	1.6	Biological membranes. Transport of substances across membranes. Laboratory work No.6
	8	COLLOQUIUM 1
2. Physical fundamentals of diagnostic and therapeutic methods	2.1	Physical fundamentals of the ultrasound application in medicine
	2.2	The interaction of light with a matter: absorption, scattering. Laboratory work No.17
	2.3	Optical system of the eye
	2.4	Physical fundamentals of thermography. Laboratory work No.20
	2.5	Dosimetry of ionizing radiation
	14	COLLOQUIUM 2
	15	LECTURE COURSE COLLOQUIUM
	16	FINAL CONTROL CREDIT

Утверждено на заседании кафедры 28 января 2021 года, протокол № 6

И.о. зав. каф., д.м.н.

Т.В. Мачнева