



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
МЕДИЦИНСКИ ФАКУЛТЕТ
Катедра за Медицинску Физику



Школска година	Предмет	Шифра предмета	Студијски програм	Циклус студија	Година студија	Семестар	Број студената	Број група за вјежбе
2024/25	Medical Physics	ISM22MP	Medicine (in english)	First	First	I		

ПЛАН И РАСПОРЕД ПРЕДАВАЊА

Седмица	Предавање	Тематска јединица	Дан	Датум	Вријеме	Мјесто одржавања	Ч	Наставник
I	P1	Basics of Systemology- the human organism as a system	Monday	7.10.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
II	P2	Biomechanics of the human locomotor system	Monday	14.10.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
III	P3	Biomechanics of fluids- cardiovascular system	Monday	21.10.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
IV	P4	Thermodynamics of the human organism	Monday	28.10.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
V	P5	Transport processes in the human organism	Monday	4.11.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
VI	P6	Bioelectrical processes in the human organism. Electrical signals in the body. Functional diagnostics.	Monday	7.11.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics

VII	P7	Bioelectrical processes in the human organism. Application of electricity and magnetism to the human body	Monday	11.11.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
VIII	P8	nMRI	Monday	18.11.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
IX	P9	Bioacoustics Mechanical oscillations and waves. The sound.	Monday	25.11.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
X	P10	Bioacoustics Ultrasound The human ear	Monday	2.12.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
XI	P11	Light in medicine - physics of the eye and vision. The electromagnetic nature of light Interaction of light and matter Physics of the eye and vision	Monday	9.12.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
XII	P12	Application of ionizing radiation in medicine Interaction of photon radiation with matter Radiation protection	Monday	16.12.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
XIII	P13	Medical aspects of the effect of ionizing radiation Instruments for radiation monitoring	Monday	23.12.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
XIV	P14	Radioactivity, detection of ionizing radiation and dosimetry	Monday	30.12.24	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics
XV	P15	CT, Radiotherapy Linac, Nuclear medicine PET CT	Monday	13.01.25	18.30-20.00	FM Amf	2	Assi Prof Goran Kolarevic, spec. of med. physics

П1, П2,, П15 – Предавање прво, Предавање друго, ..., Предавање петнаесто, Ч - Часова

ПЛАН И РАСПОРЕД ВЈЕЖБИ

Седмица	Вјежба	Тип вјежбе	Тематска јединица	Дан	Датум	Вријеме	Мјесто одржавања	Ч	Сарадник
I	V1	PV	Introduction	Wednesday	09. 10. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
II	V2	PV	Units of measurement	Wednesday	16. 10. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
III	V3	PV	Determination of gravitational acceleration	Wednesday	23. 10. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
IV	V4	PV	Temperature measurement	Wednesday	30. 10. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
V	V5	PV	Determination of torsional constant and shear modulus	Wednesday	06. 11. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
VI	V6	PV	Hooke's Law checking	Wednesday	13. 11. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
VII	V7	PV	Determination of viscosity coefficient	Wednesday	20. 11. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
VIII	V8	PV	Determination of body density	Wednesday	27. 11. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
IX	V9	PV	Determination of surface tension	Wednesday	04. 12. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
X	V10	PV	Length measurement	Wednesday	11. 12. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
XI	V11	PV	Determination of the speed of sound	Wednesday	18. 12. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
XII	V12	PV	Blood pressure measurement	Wednesday	25. 12. 2024.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
XIII	V13	PV	Determining the refractive index of light	Wednesday	01. 01. 2025.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist

XIV	V14	PV	Determination of hydraulic resistance	Wednesday	08. 01. 2025.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist
XV	V15	PV	Exit colloquium	Wednesday	15. 01. 2025.	18:00-18:45	Campus	1	Tatjana Ignjic, MSc physicist

B1, B2,, B15 – Вјежба прва, Вјежба друга, ..., Вјежба петнаеста, ТВ – Теоријска вјежба, ПВ – Практична вјежба, Ч - Часова

ШЕФ КАТЕДРЕ:

Assi Prof Goran Kolarevic
