



**FACULTY OF MEDICINE
UNIVERSITY OF BANJA LUKA**
Department of Physiology



| Academic year | Subject | Subject code | Study program | Cycle study | Year of study | Semester | Number of students | Number of groups |
|---------------|--------------|--------------|--|-------------|---------------|----------|--------------------|------------------|
| 2024/2025. | Epidemiology | | Medicine in English International programme | The first | The third | IV | 12 | |

LECTURES (TIMETABLE)

| Week | Lecture | Topic | Day | Date | Time | Place | Class | Professor |
|------|---------|---|-----------|------------|-------------|---|-------|-----------------|
| I | L1 | Study subject and significance of epidemiology. Epidemiology in the practice of public health. New directions of development in epidemiology. | Wednesday | 09.10.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| II | L2 | Health disorder frequency indicators. Data sources in epidemiology. | Wednesday | 16.10.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| II | L3 | Causality in epidemiology and the concept of risk. Epidemiological triage | Wednesday | 23.10.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| IV | L4 | Types of epidemiology studies. Descriptive epidemiology and descriptive studies. | Wednesday | 30.10.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute | 2 | Rodic Vukmir N. |

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| V | L5 | Analytical studies. Experimental studies. | Wednesday | 06.11.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| VI | L6 | Measurement errors in epidemiology studies. Public health supervision. | Wednesday | 13.11.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| VII | L7 | Prevention. Screening. | Wednesday | 20.11.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| VIII | L8 | Reservoir and source of infection. Portals of entry and exit of infection. | Wednesday | 27.11.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| IX | L9 | Routes of transmission of infectious diseases. Epidemiology of the living environment. | Wednesday | 04.12.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| X | L10 | Immunization. Epidemics research. | Wednesday | 11.12.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| XI | L11 | Disease suppression measures. Hospital-Acquired Infections. | Wednesday | 18.12.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |

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| XII | L12 | Epidemiology in emergency situations. Biological war and terrorism. Communication, knowledge, skill and practice. | Wednesday | 25.12.2024 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| XIII | L13 | Epidemiology of chronic non-infectious disease and strategies for their prevention. | Wednesday | 08.01.2025 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| XIV | L14 | Epidemiology of cardiovascular diseases. | Wednesday | 15.01.2025 | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| XV | L15 | Epidemiology of malignant tumours. Epidemiology of chronic respiratory diseases. | Wednesday | To be confirmed | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |
| XVI | L16 | Application of epidemiology in evidence-based medicine. Clinical epidemiology. | Wednesday | To be confirmed | 13:00-14:30 | Amphitheatre of Public Health Institute of the Republic of Srpska | 2 | Rodic Vukmir N. |

PRACTICAL AND THEORETICAL EXERCISES

| Week | Exercise | Type of exe. | Topics |
|------------------------------|----------|--------------|--|
| I since 16.10.2024 | E1 | Practical | Health disorder frequency indicators |
| II since 23.10.2024. | E2 | Practical | Standardization. |
| | | Theoretical | Transport of substances through the cell membrane |
| III since 30.10. 2024 | E3 | Practical | Causality in epidemiology and the concept of risk. |
| | | Theoretical | Human body fluids: intracellular and extracellular, interstitial; Clinical consideration |
| IV since 06.11.2024. | E4 | Practical | Natural flow of disease. |
| | | Theoretical | Membrane potentials and action potentials Clinical consideration |
| V since 13.11.2024 | E5 | Practical | Disposition and collective immunity |
| | | Theoretical | Excitation and contraction of skeletal and smooth muscle Clinical consideration |
| VI since 20.11.2024. | E6 | Practical | John Snow and cholera (descriptive method). |
| | | Theoretical | Sensory receptors, neuronal circuits for processing information Clinical consideration |
| VII since 27.11..2024. | E7 | Practical | Smoking and lung cancer (case study and control). |
| | | Theoretical | Motor function of the spinal cord; The spinal reflexes Clinical consideration |
| VIII since 04.12.2024. | E8 | Practical | Smoking and lung cancer (cohort study). |
| | | Theoretical | Hypothalamus; The Autonomic nervous system and the adrenal medulla Clinical consideration |
| IX | E9 | Practical | Field experiment. |

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| since 11.12.2024. | | Theoretical | Cardiac cycle; Normal electrocardiogram (ECG); ECG Interpretation; Vectoral Analysis Clinical consideration |
| X since 18.12.2024. | E10 | Practical | Immunization (active) |
| XI since 25.12.2024. | E11 | Practical | Immunization (passive). |

TIMETABLE

| Group | Type of Exercise | Day | Time | Place | Number of Classes | Teaching associate |
|-----------|------------------|-----------|-----------|--|-------------------|-------------------------|
| G1 and G2 | Practical | Wednesday | 8:00-8:45 | Public Health Institute Republic of Srpska | 1 | Jelena Đaković Dević |
| G1 and G2 | Practical | Wednesday | 8:00-8:45 | Public Health Institute Republic of Srpska | 1 | Jelena Đaković Dević |
| G1 and G2 | Practical | Wednesday | 8:00-8:45 | Public Health Institute Republic of Srpska | 1 | Jelena Đaković Dević |
| G1 and G2 | Practical | Wednesday | 8:00-8:45 | Public Health Institute Republic of Srpska | 1 | Jelena Đaković Dević |
| G1 and G2 | Practical | Wednesday | 8:00-8:45 | Public Health Institute Republic of Srpska | 1 | Jelena Đaković Dević |
| G1 and G2 | Practical | Wednesday | 8:00-9:30 | Public Health Institute Republic of Srpska | 2 | Jelena Đaković Dević |
| G1 and G2 | Practical | Wednesday | 8:00-9:30 | Public Health Institute Republic of Srpska | 2 | Jelena Đaković Dević |
| G1 and G2 | Practical | Wednesday | 8:00-9:30 | Public Health Institute Republic of Srpska | 2 | Jelena Đaković Dević |
| G1 and G2 | Practical | Wednesday | 8:00-8:45 | Public Health Institute Republic of Srpska | 1 | Jelena Đaković Dević |

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| G1 | Practical | Wednesday | 8:00-9:30 | Public Health Institute Republic of Srpska | 2 | Jelena Đaković Dević |
| G2 | Practical | Wednesday | 9:30-11:00 | Public Health Institute Republic of Srpska | 2 | Jelena Đaković Dević |
| G1 | Practical | Wednesday | 8:00-8:45 | Public Health Institute Republic of Srpska | 1 | Jelena Đaković Dević |
| G2 | Practical | Wednesday | 8:45-9:30 | Public Health Institute Republic of Srpska | 1 | Jelena Đaković Dević |

G1 – group 1

G2 – group 2