



| | | | | | | | |
|---|----------|--|--|----------------|-----------------|---|-------------|
|  | | UNIVERSITY OF EAST SARAJEVO Faculty of Medicine | | | |  | |
| | | Study program: Medicine in English | | | | | |
| | | Integrated academic studies | | 3rd study year | | | |
| Full subject title | | EPIDEMIOLOGY | | | | | |
| Department | | Department of Primary Health Care and Public Health, Faculty of Medicine Foča | | | | | |
| Subject code | | | Subject status | | Semester | | ECTS |
| ME-02-1-026-5 | | | compulsory | | V | | 6 |
| Professor/ -s | | professor Darija Kisic Tepavcevic, MD, PhD | | | | | |
| Associate/ - s | | senior assistant Milena Dubravac Tanaskovic, MD | | | | | |
| Number of lectures/ teaching workload (per week) | | | Individual student workload (in hours per semester) | | | Coefficient of student workload S₀¹ | |
| L | E | SP | L | E | SP | L | |
| 2 | 3 | 0 | 2*15*1.4 | 3*15*1.4 | 0*15*1.4 | 1,4 | |
| total teaching workload (in hours, per semester) 2*15+3*15+0*15=75 | | | total teaching workload (in hours, per semester) 2*15*1.4+3*15*1.4+0*15*1.4=105 | | | | |
| Total subject workload (teaching + student): 75+105=180 hours | | | | | | | |
| Learning outcomes | | 1. Collect, analyze and interpret data on health disorders of different etiologies 2. Designing basic epidemiological studies 3. Application of epidemiological methods in the prevention of infectious and non-infectious diseases. 4. Exploring the epidemics | | | | | |
| General competences | | They possess broad fundamentals of theoretical knowledge and practical skills, preparing them for any type of postgraduate education as well as for collaboration with other medical professionals. They have adopted attitudes concerning medical ethics. They are prepared for further development and advances within the field of medicine. They have acquired a systemic thinking approach as well as a structured approach to medical problems during their education. They fulfill the legal requirements for a career in the field of medicine and are eager to accept responsibility associated with medical knowledge concerning additional professional education. They are acquainted with methodology of scientific research. They are capable of acting in accordance with rational and scientific concepts and principles. They are prepared for accepting responsibility and appropriate medical decision-making. They are acquainted with health improvement and disease prevention and are eager to make medical professionals adopt more positive attitude towards it. They have adopted attitudes and gained understanding of their personal limitations in accordance with the previous education and experience. They are eager to collaborate with other medical professionals. They are conscious of the necessity for continuous learning and improvement process to maintain a high level of medical competence. They are eager to support quality assurance measures and periodic evaluation of their own medical competences and knowledge standards. They adhere to legal requirements regarding ongoing theoretical and practical training. | | | | | |
| Preconditions | | Requirement for taking the exam: all passed exams from the previous year of study | | | | | |
| Teaching methods | | Lectures, practical work, seminar work | | | | | |
| Subject content per week | | Lectures: 1. The subject of study and the significance of epidemiology. Epidemiology in public health practice. New directions of epidemiology development. 2. Indicators of the frequency of health disorders. Sources of data in epidemiology. 3. Causality in epidemiology and the concept of risk. Epidemiological triage 4. Types of epidemiological studies. Descriptive epidemiology and descriptive studies. 5. Analytical studies. Experimental studies. 6. Mistakes in epidemiological studies. Public health control | | | | | |

¹The coefficient of student workload S_0 is calculated as it follows:

- a) for the study programs not going through the licensing process: $S_0 = (\text{total workload in semester for all of the subjects } 900 \text{ hrs} - \text{total teaching workload } L+E \text{ in semester for all of the subjects } 870 \text{ hrs}) / \text{total teaching workload } L+E \text{ in semester for all of the subjects } \text{ hrs} = \text{ }.$ Consult form content and its explanation.
b) for the study programs going through the licensing process, it is necessary to use form content and its explanation.

| | | | | |
|--|---|-------------|------------------------|-------------------|
| | 7. Prevention. Screening. 8. Reservoir and source of infection. Inbound and outbreak sites of infection. 9. Pathways of transmission of infectious diseases. Epidemiology of the environment. 10. Immunization. Exploring the epidemic. 11. Disease control measures. Intra-hospital infections. 12. Emergency epidemiology. Biological war and terrorism. 13. Epidemiology of chronic non-communicable diseases and strategies for their prevention. Epidemiology of cardiovascular diseases. 14. Epidemiology of malignant tumors. Epidemiology of chronic respiratory diseases. 15. Application of epidemiology in evidence-based medicine. Clinical epidemiology. | | | |
| | Exercises: 1. Indicators of frequency of health disorders. 2. Standardization. 3. Causality in epidemiology and the concept of risk. 4. Natural course of the disease. 5. Disposition and collective immunity. 6. Reservoir and source of infection. 7. Pathways of transmission of infectious diseases. 8. John Snow and cholera (descriptive method). 9. Smoking and lung cancer (case study and control). 10. Smoking and lung cancer (cohort study). 11. Field experiment. 12. Immunization (active). 13. Immunization (passive). 14. Prevention. Screening of health disorders. 15. Exploring the epidemic. 16. Eradication and elimination of infectious diseases. 17. Intra-hospital infections. | | | |
| Compulsory literature | | | | |
| Author/s | Publication title/Publisher | Year | Pages (from-to) | |
| Gardis L | Epidemiology, 5 th ed. Saunders, Philadelphia | 2014 | | |
| | Workbook of Practical Session in Epidemiology; Belgrade, Faculty of Medicine, University of Belgrade | 2016 | | |
| Additional literature | | | | |
| Author/s | Publication title/Publisher | Year | Pages (from-to) | |
| | | | | |
| | | | | |
| Student responsibilities, types of student assessment and grading | Grading policy | | Points | Percentage |
| | Pre-exam activities | | | |
| | lecture/exercise attendance | | 5 | 5% |
| | Seminar paper | | 5 | 5% |
| | case study - group work | | 20 | 20% |
| | test / colloquium | | 20 | 20% |
| | Final exam | | | |
| | written exam | | 50 | 50% |
| TOTAL | | 100 | 100 % | |
| Certification date | June 17th 2024 | | | |

* the number of necessary rows is added by using *insert mode*