Course description

Part 1

General information about the course	
1. Major of study: medicine	**2. Study level:** unified MSc **3. Form of study:** intramural
4. Year: II	**5. Semester**: according to the schedule
6. Course name: Hygiene and epidemiology	
7. Course status: required	
8. Course objectives Population health problems; epidemiology of selected disease entities; descriptive, analytical, environmental and clinical epidemiology; interpretation of epidemiological studies, assessment of their reliability and quality of scientific evidence; the impact of abiotic and biotic environmental factors on the human body; the impact of the social environment and social inequalities and socio-cultural differences on health; the role of stress in health and self-destructive behaviors and diseases; epidemiology of social diseases; methods of assessing the health of the individual and the population; occupational health and medicine; food and nutrition hygiene; disease classification systems and medical procedures; identification of disease risk factors; using databases and searching for necessary information using available tools; critical analysis of the literature; teamwork. **Learning outcomes / reference to learning outcomes indicated in** (underline as appropriate): education standards (Regulation of the Ministry of Science and Higher Education) / Resolution of the Senate of the Medical University of Silesia (indicate terms specified in education standards / signs of learning outcomes approved by the Resolution of the Senate of the Medical University of Silesia) For knowledge – student knows and understands: B.W6,B.W.29, C.W48, C.W50, C.W13, C.W14, D.W1, D.W2, D.W12, E.W1, E.W23, G.W1, G.W2, G.W3, G.W8, D.W23 For skills student can do : G.U1, G.U2, G.U3, G.U4, B.U10, B.U12, D.U17 For social competencies student is ready to: D.U12, D.U16	

9. Number of hours for the course	**45**	**10. Number of ECTS points for the course**	**3**
11. Form of evaluation: exam			

12. Methods of verification and evaluation of learning outcomes

Learning outcomes	Methods of verification	Methods of evaluation*/ credit
Knowledge	Written evaluation – open questions Grade credit – MCQ **Summary methods:** Written exam / test exam	*
Skills	Observation	*
Competencies	Observation	*

***** For exams and grade credits the following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level
Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level
Good (4,0) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level
Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level
Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved

Course description

Part 2

Other useful information concerning the course	
13. Department conducting the course, address, e-mail address: Department of Epidemiology, 18 Medyków St., 40-752 Katowice, epikat@sum.edu.pl	
14. Course Coordinator: Grzegorz Brożek, MD, Prof.	
15. Prerequisites in terms of knowledge, skills and other competences: No requirements for prior skills and/or competencies	
16. Group size	In accordance with the SUM Senate Resolution
17. Teaching materials	Presentations available on e-learning platform
18. Location of classes	18 Medyków St., 40-752 Katowice
19. Location and time of office hours	Building c3, IV floor, classrooms: 401, 412, 122/123, Building c2,

20. Learning outcomes

Number of the course learning outcome	Course learning outcomes	Reference to the learning outcome included in the standards
In terms of knowledge (student know):		
C_K01	Natural and artificial sources of ionizing radiation and its impact with matter	B.W6
C_K02	Principles for conducting scientific, observational and experimental research, and in vitro studies for the development of medicine	B.W29
C_K03	Drug resistance, including multidrug resistance	C.W48
C_K04	Consequences of improper nutrition, including long-term starvation, eating too much and eating an unbalanced diet, and disorders of digestion and absorption of digestive products;	C.W50
C_K05	Epidemiology of infections with viruses and bacteria, as well as infections with fungi and parasites, taking into account the geographical extent of their occurrence	C.W13
C_K06	The influence of abiotic and biotic (viruses, bacteria) environmental factors on the human body and human population and the routes of their entry into the body Human	C.W14
C_K07	The social dimension of health and disease, the influence of the social environment (family, networks of social relationships) and social inequalities and socio-cultural differences on health status, as well as the role of social stress in health-related and self-destructive behaviours;	D.W1
C_K08	Forms of violence, models explaining domestic violence and violence in selected institutions, social determinants of various forms of violence and the role of the physician and dentist in recognizing it;	D.W2
C_K09	Principles of altruism and clinical responsibility	D.W12
C_K10	The relationship between morphological abnormalities and the function of the altered organs and systems, and clinical symptoms and diagnostic and treatment possibilities	E.W1
C_K11	Environmental and epidemiological conditions of the most common cancers	E.W23

C_K12	Methods of assessing the health status of an individual and the population, various systems of classification of diseases and medical procedures	G.W1
C_K13	Methods of identifying and testing risk factors, advantages and disadvantages of various types of tests epidemiological and measures indicating the presence of a cause-and-effect relationship	G.W2
C_K14	Epidemiology of infectious and chronic diseases, ways to prevent them occurrence at different stages of the natural history of the disease and the role of surveillance Epidemiological	G.W3
C_K15	Regulations and basic methods concerning medical experimentation and other medical research, including basic methods of data analysis	G.W8
C_K16	Basics of evidence-based medicine	D.W23
In terms of skills:		
C_S01	Describe the demographic structure of the population and assess the problems of the health of the population	G.U1
C_S02	Collect information on the presence of risk factors for infectious diseases and chronic diseases, and plan preventive measures at different levels of prevention	G.U2
C_S03	Interpret measures of the prevalence of illness and disability	G.U3
C_S04	Assess the epidemiological situation of diseases commonly occurring in of Poland and in the world	G.U4
C_S05	Databases, including online databases, and search for the information you need using the tools	B.U10
C_S06	explain the differences between prospective and retrospective studies, randomized and case-control trials, case reports and studies and rank them according to the reliability and quality of the scientific evidence	B.U12
C_S07	critically analyze medical literature, including in English, and draw conclusions	D.U17
In terms of social competencies:		
C_C01	Communicate with colleagues by providing feedback and support;	D.U12
C_C02	Demonstrate responsibility for upskilling and transferring the skills of the knowledge to others	D.U16

21. Forms and subjects of classes	**Number of hours**
21.1. Lectures	**10**
Epidemiology and its contribution to medical research	3
Epidemiology and its contribution to public health	3
Screening test	2
Environmental epidemiology	2
21.2. Seminars	**10**
Descriptive epidemiology	2
Occupational medicine	2
Interpretation results of epidemiological studies	1
Clinical epidemiology	1
Epidemiology of infectious disease	1
Nutrition epidemiology	1
Analytical epidemiology	1
Environmental epidemiology	1
21.3. Labs	**25**
Descriptive epidemiology	3

Occupational medicine	3
Interpretation results of epidemiological studies	3
Clinical epidemiology	3
Epidemiology of infectious disease	3
Nutrition epidemiology	3
Analytical epidemiology	3
Environmental epidemiology	4
22. Literature	
Required literature: WHO, Beaglehole R.: Basic Epidemiology, 2006 **Supporting literature:**	
23. Assessment criteria - details	
Final exam – MCQ test	