

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: 3	5. Semester: 5	
6. Course name: Environmental Health		
7. Course status: required		
8. Course contents nad assigned learning outcomes		
The course objectives are to teach students the principal concepts of environmental health, the impact of environmental factors on health and their role among risk factors of diseases, as well as to review opportunities for preventive measures. The outcomes of the course include: a) knowledge about basic methods used to assess the contribution of environmental factors to health and its disorders, including major diseases; b) understanding the role of life-style and physical and chemical factors in etiology of diseases; c) awareness of environmental exposure history in medical examination of patients. The specific topics include goals of environmental health, concept of environmental medicine, concept of occupational medicine, environmental burden of diseases, nutrition and eating disorders, stress, air pollution, water pollution, methods of environmental health risk evaluation (environmental epidemiology, biomonitoring, risk assessment)		
Learning outcomes / reference to learning outcomes indicated in the standards		
For knowledge – student knows and understands:		
C.W14 Effect of environmental factors on human organism and the population, including routes of exposure		
C.W15 Consequences of human exposure to various chemical and biological factors, including preventive procedures		
C.W33 Internal and external harmful factors, both modifiable and nonmodifiable		
For skills student can do:		
C.U6 Assessment of environmental health risk and application of basic methods used to identify harmful chemical and physical factors in the environment		
G.U2 Collecting information on the occurrence of risk factors of infectious and chronic diseases, planning preventive measures on different levels of preventive programmes		
For social competencies student is ready to: communicate the results of environmental health studies to the patients, collaborate in a research teams and participate in a research report preparation, in the field of environmental health/environmental medicine		
9. Number of hours for the course		50
10. Number of ECTS points for the course		4
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Written evaluation – open questions Grade credit – MCQ	*
Skills	Report Observation Practical exam	*
Competencies	Observation	*

* 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 about the course		
12. Name of Department, mailing address, e-mail: Department of Epidemiology, 18 Medyków St., 40-752 Katowice, PL / +48 (32) 2088 536 /, e-mail: epikat@sum.edu.pl		
13. Name of the course coordinator: Professor Jan E. Zejda, MD, PhD		
14. Prerequisites for knowledge, skills and other competencies: None		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	Textbooks (as indicated in the "Readings" (see below)	
17. Location of classes	Department of Epidemiology, 18 Medyków St., 40-752 Katowice	
18. Location and time for contact hours	Department of Epidemiology, 18 Medyków St., 40-752 Katowice, 9:00-12:00	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01 / C_K01	Understanding the impact of exposure to environmental factors on human health.	C.W14
P_W02 / C_K02	Understanding the role of environmental factors among risk factors of acute and chronic diseases.	C.W15
P_W03 / C_K03	Understanding the specific effects of physical, chemical and biological factors on human organism and the population, including routes of exposure	C.W15 C.W33
P_U01 / C_S01	Ability to interpret the results of environmental health reports (scientific publications)	C.U6
P_U02 / C_S02	Ability to include environmental health aspects into clinical assessment (history, diagnostics)	C.U6
P_U03 / C_S03	Ability to assess environmental health risk and to apply of basic methods used to identify harmful chemical and physical factors in the environment	C.U6
P_U04 / C_S04	Ability to collect information on the occurrence of risk factors of infectious and chronic diseases, planning preventive measures on different levels of preventive programmes	G.U2
20. Forms and topics of classes		Number of hours

21.1. Lectures	10
Environmental burden of diseases	2
Introduction to environmental health part I	2
Introduction to environmental health Part II	2
Occupational Health	2
Healthy lifestyle	2
22.2. Seminars	16
Workplace health and safety	2
Health effects of social stress	2
Urbanization	2
Taking an exposure history	2
Air pollution	2
Health effects of tobacco smoking	2
Water and health	2
Injuries	2
23.3. Labs	24
Health effects of xenobiotics	2
Bulimia, anorexia, obesity	2
Food contamination	2
Risk assessment	2
Assessment of population health status	2
Health effects of air pollution	2
Health effects of alcohol consumption	2
Healthy diet	2
Nutrition	2
Determinants of health	2
Biomonitoring	2
Radiation	2
24. Readings	
A. Prüss-Üstün and C. Corvalán: Preventing disease through healthy environments. WHO, Geneva 2006 (available at: http://www.who.int/quantifying_ehimpacts/publications/preventingdisease/en/index.html)	
F. Valent, D'A. Little, G. Tamburlini, F. Barbone: Burden of disease attributable to selected environmental factors and injuries among Europe's children and adolescents. WHO, Geneva 2004 (available at: http://www.who.int/quantifying_ehimpacts/publications/en/ebd8web.pdf)	
25. Detail evaluation criteria	
In accordance with the recommendations of the inspection bodies Completion of the course – student has achieved the assumed learning outcomes Detail criteria for completion and evaluation of the course are specified in the course regulations	