SYLLABUS The cycle of instruction 2018-2024 [INT]			
Module/course name:	**Hygiene**	**Module code**	
Faculty:	**I Faculty of Medicine with Dentistry Division** **II Faculty of Medicine with English Division**		
Major:	Medical		
Specialty:			
Level of study:	I (Bachelor studies) □ II (Master studies) □ integrated Master studies **X** III (Doctoral studies) □		
Mode of study :	full-time **X**		
Year of study:	I **X** II □ III □ IV □ V □ VI □	Semester :	1 **X** 2 □ 3 □ 4 □ 5□ 6□ 7□ 8□ 9□ 10 □ 11 □ 12 □
Module/course type:	obligatory **X** elective □		
Language of instruction:	Polish English **X**		

Form of education	**Hours**
Lecture	**5**
Seminar	
Laboratory class	**10**
E-learning	
Practical class	
Internship	
Other	
Other	

Student's work input (participation in class, preparation, evaluation, etc.)	**Student's hourly workload**
1. In class	**15**
2. Student's own work	**10**
Summary of the student's workload	**25**
ECTS points for module/course	**1**

Educational objectives:

Educational objectives: The aim of the course is to make students aware of the influence of various environmental factors on human health and the basic concepts of ecotoxicology. After completion of the course the student knows the main environmental factors affecting human health, is aware of the major risk factors of nonocommunicable diseases, can prevent hospital acquired infections and understands the correlation between human health and nutrition, lifestyle, food, air, water and soil quality.

Students will learn about the influence of different environmental factors on human health, basic methods of disease prophylaxis and health promotion.

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The matrix of learning outcomes for module/ subject with reference to verification methods of the intended educational outcomes and forms of instruction:

Learning outcome code	A student who has obtained a credit for the module/course has the knowledge/skill to:	Methods of verifying the achievement of the intended learning outcomes:	Form of instruction * provide the symbol
B.W11	describes the structure of lipids and polysaccharides and their function in cellular and extracellular structures	test	lecture
B.U1	applies knowledge of the laws of physics to explain the effect of external factors, such as temperature, gravity, pressure, electromagnetic field and ionizing radiation on human body and its elements;	test	lab
B.U2	can assess damaging effect of ionizing radiation dose and observes principles of radiological protection	test	lab
C.W10	assesses benefits and risks resulting from presence in the ecosystem of genetically modified organisms(GMO);	test	lecture
C.W36	can describe the effect of disease processes on metabolism and elimination of drugs	test	lab
C.W43	knows groups of medicinal drugs which, when overused, may lead to poisoning;	test	lab
C.W44	knows the symptoms of most common types of poisoning, including those caused by alcohol, drugs, psychoactive substances, heavy metals and some groups of medicinal drugs;	test	lab
C.U6	can evaluate environmental threats (biological and chemical)	test	lab
E.U9	can carry anthropometric measurements	test	lecture
F.U3	obeys principles of the asepsis and antiseptics	test	lab, lecture

EXAMPLES OF METHODS VERIFYING THE ACHIEVEMENT OF THE INTENDED LEARNING OUTCOMES:
In terms of knowledge: Written exam – the student passes *multiple choice questions /MCQ/;*
In terms of social competences:
an extended observation by a supervisor/tutor; 360-degree assessment (feedback from teachers, peers, patients, other co-workers); self-assessment (portfolio included).

Course content: (use keywords referring to the content of each class following the intended learning outcomes):

Topics to be done at Hygiene Department during labs (2h each)

1. The influence of climatic elements on human health.

2. Harmful physical factors in the environment (sound, vibration, radiation, UV). Carcinogenesis.

3. Health problems related to air pollution. Water quality and waterborne diseases. Litosphere contamination and its' significance for human health.

4.Introduction to toxicology. Absorption, distribution, metabolism, elimination of toxins. Acute and chronic poisoning. Drug overdose

5. Hygiene at healthcare settings.

Lectures:

1. Environmental and lifestyle risk factors for noncommunicable diseases.

2. Nutrition- balanced diet as the basis of proper functioning of human body. GMOs.

3.Nutrition at different stages of human life.

4. Travelling and health

5.How to reduce the risk of healthcare- related infections?

Obligatory literature for lectures and labs:

1.Emilia Kolarzyk: Selected topics on hygiene and human ecology. Available on-line at: www.e-nuiag.cm-uj.krakow.pl/materialy/higien.

Complementary literature:

1.Roberta Larson Duyff: Complete food and nutrition guide. 2 nd ed. John Wiley & Sons, Inc, Hoboken, New Jersey, 2002.

1. Sue Rodwell Williams: Essential of nutrition and diet therapy, 6th ed. Mosby, St Louis, Missouri, 1994

Klaassen C.D. Watkins III J.B. Casarett & Doull's Essentials of Toxicology , McGraw Hill, 2010

Requirements for didactic aids (multimedia projector, movie camera, etc.)

Multimedia projector, laptop, chemistry and physics laboratory, weighing scale, calculators

Conditions for obtaining a credit for the subject:

1.Attendance is required. Student must participate in lab sessions according to the schedule. During the semester only 1 absence is possible. All excused absences from class must be reported. Participation performance will not be penalized for excused absences. In the case of absences with the content of classes the student missed shall be made up according to the schedule given by the instructor. Students are expected to arrive at class on time. Students that arrive after class begins will not be permitted in the classroom until the break. 3 tardiness will be considered 1 complete absence.

2.The overall course grade will be determined by the result of the final comprehensive written exam, which verify if the student acquired the knowledge, of the information as stated in the syllabus. A passing score confirms the satisfactory fulfilment of course requirements and is based on student's class attendance and grade.

3.Student must pass the final exam getting minimum the sufficient grade. The grading scale is listed below:

95-100%	5.0 (very good)
90-94%	4.5 (better than good)
80-89%	4.0 (good)
70-79%	3.5 (quite good)
60-69%	3.0 (satisfactory)
<60%	2.0 (unsatisfactory)

The name and address of the department/~~clinic~~, where the course is taught (module/course); contact details (phone number/ email address):

Chair and Department of Hygiene
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Head: professor Andrzej Borzęcki, MD, PhD

Course Coordinator:
Barbara Nieradko-Iwanicka MD PhD

Names of the author/authors of this syllabus:
Barbara Nieradko-Iwanicka MD PhD

Names of the teacher/teachers conducting classes:
Barbara Nieradko-Iwanicka MD, PhD,
Monika Sałaga-Pylak MD, PhD

Signature of the head of the department/clinic

KIEROWNIK
Katedry i Zakładu Higieny
Uniwersytetu Medycznego w Lublinie
prof. dr hab. n. med. Andrzej Borzęcki

Dean's signature

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Date of submission: .....