

SYLLABUS

The academic year when the cycle of instruction is commenced 2019-2025 INT

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| Module/course name: | Hygiene and Nutrition | | Module code | |
| Faculty: | Faculty of Medicine MUL | | | |
| Major: | Medical | | | |
| Specialty: | | | | |
| Level of study: | I (Bachelor studies) <input type="checkbox"/> II (Master studies) <input type="checkbox"/> Integrated Master studies X Doctoral studies <input type="checkbox"/> | | | |
| Mode of study: | full-time X | | | |
| Year of study: | I X II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V <input type="checkbox"/> VI <input type="checkbox"/> | Semester: | 1 <input type="checkbox"/> 2 X 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> | |
| Module/course type: | obligatory <input type="checkbox"/> elective X | | | |
| Language of instruction: | Polish <input type="checkbox"/> English X | | | |
| Form of education | | Hours | | |
| Lecture | | | | |
| Seminar | | 30 | | |
| Laboratory class | | | | |
| E-learning | | | | |
| Practical class | | | | |
| Internship | | | | |
| Other | | | | |
| TOTAL | | | | |
| Student's work input (participation in class, preparation, evaluation, etc.) | | Student's hourly workload | | |
| 1. In class | | 30 | | |
| 2. Student's own work including: 1 Preparation for class 2 Preparation for partials and finals | | 10 | | |
| Summary of the student's workload | | 40 | | |
| ECTS points for module/course | | 1 | | |

Educational objectives: Educational objectives: The course it to provide students information about nutrients (carbohydrates, proteins, fats, vitamin and minerals) and their roles in human body at different stages of human life. Foodborne and waterborne diseases will be discussed focusing or routes of their transmission and the significance of food and water hygiene. The benefits and risks connected with use of genetically modified organisms will be discussed. Xenobiotic (drug, pesticide, detergent, heavy metal) poisoning will be shown. Presentation of case reports. Cancerogens in food will be enumerated and discussed. Enteral and parenteral nutrition in different diseases will be explained. Clinical trials showing effectiveness of special diets in particular diseases will be presented (DASH diet in hypertensive patients, low purine diet in gout, diet in diabetes, gastritis, kidney stones, nutrition in genetic diseases: phenylketonuria, galactosemia, nutrition in food allergies).

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 |
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| BW11 | describes the structure of lipids and polysaccharides and their function in cellular and extracellular structures | Oral exam SEMESTER CONDUCTED IN THE FORM OF THE COMPETITION, NECESSARY ACTIVE PARTICIPATION IN OXFORD YPE DISCUSSIONS AND EXERCISES | seminar |
| BW15 | describes basic katabolic and anabolic pathways, methods of their control and the effect of genetic and environmental factors; | | |
| BU1 | 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; | | |
| BU2 | can assess damaging effect of ionizing radiation dose and observes principles of radiological protection | | |
| CW10 | assesses benefits and risks resulting from presence in the ecosystem of genetically modified organisms(GMO); | | |
| CW20 | knows the basics of disinfection, sterilization and aseptic procedures; | | |
| CW33 | can name internal and external, modifiable and non-modifiable pathogenic factors; | | |
| CW37 | can describe the effect of disease processes on metabolism and elimination of drugs | | |
| CW43 | knows the basic issues of general toxicology | | |
| CW44 | knows groups of medicinal drugs which, when overused, may lead to poisoning; | | |
| CW45 | 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; | | |
| CW48 | knows the consequences of vitamins or minerals deficiency and excess | | |
| CW50 | knows the consequences of wrong nutrition, including long starvation, taking too big meals and having unbalanced diet; | | |
| EW1 | knows the genetic, environmental and epidemiological background of most common diseases; | | |
| EW7 | knows and understands the causes, symptoms, diagnostic principles and therapeutic procedures in respect to most common internal diseases in adults and their complications; | | |

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| EU15 | identifies conditions after alcohol, drug and other stimulant abuse; | | |
| <p>EXAMPLES OF METHODS VERIFYING THE ACHIEVEMENT OF THE INTENDED LEARNING OUTCOMES:</p> <p><u>In terms of knowledge:</u> Oral exam</p> <p><u>In terms of skills:</u> project, presentation.</p> <p><u>In terms of social competences:</u> A reflective essay; an extended observation by a supervisor/tutor; 360-degree assessment (feedback from teachers, peers, patients, other co-workers);</p> | | | |
| <p>Course content: (use keywords referring to the content of each class following the intended learning outcomes):</p> <p>Laboratory class:</p> <ol style="list-style-type: none"> 1. Nutrients –carbohydrates and their roles in human body. 2. Nutrients- proteins and their roles in human body. 3. Nutrients – fats and their roles in human body. 4. Nutrients - vitamin and minerals and their roles in human body. he consequences of vitamins or minerals deficiency and excess 5. Foodborne and waterborne diseases. Routes of their transmission and the significance of food and water hygiene. Hand hygiene. Disinfection 6. The benefits and risks connected with use of genetically modified organisms. 7. Xenobiotics (drug, pesticide, detergent, heavy metal) poisoning . 8. Case reports. Causes, symptoms, diagnostic principles and therapeutic procedures in respect to most common internal diseases in adults and their complications; Diet as modifiable pathogenic factor; 9 Carcinogenesis. Carcinogens (physical, chemical, biological)Carcinogens in foods. 10 Consequences of wrong nutrition, including long starvation, taking too big meals and having unbalanced diet; Enteral and parenteral nutrition in different diseases 11.linical trials showing effectiveness of special diets in particular diseases will be presented (DASH diet in hypertensive patients). 12.Low purine diet in gout. 13.Diet in diabetes. 14.Diet in gastritis, kidney stones. 15.Nutrition in genetic diseases: phenylketonuria, galactosemia, nutrition in food allergies. | | | |
| <p>Obligatory literature:</p> <p>:</p> <ol style="list-style-type: none"> 1. 1.Roberta Larson Duyff: Complete food and nutrition guide. 2 nd ed. John Wiley & Sons, Inc, Hoboken, New Jersey, 2002. 2.Sue Rodwell Williams: Essential of nutrition and diet therapy, 6th ed. Mosby, St Louis, Missouri, 1994 3.Klaassen C.D. Watkins III J.B. Casrett & Doull's Essentials of Toxicology , McGraw Hill, 2010 | | | |
| <p>Requirements for didactic aids (e.g. laboratory, multimedia projector, others...)</p> <ol style="list-style-type: none"> 1. Multimedia projector, laptop, chemistry and physics laboratory, weighing scale | | | |
| <p>Conditions for obtaining a credit for the subject: 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.</p> <p>2.The overall course grade will be determined by the result of the final comprehensive oral exam, which verify if the student acquired the knowledge, of the information as stated in the syllabus. A passing score confirms the satisfactory</p> | | | |

fulfilment of course requirements and is based on student's class attendance and grade.

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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Signature of the head of the department/clinic

z up. B. Nieradko-Iwanicka

Dean's signature

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