

Introduction to human nutrition Educational subject description sheet

Basic information

Field of study

Course Offer for exchange students - first degree studies (BA programmes)

Speciality

-

Organizational unit

Course Offer for exchange students

Study level

first degree studies (BA programmes)

Study form

full-time studies

Education profile

General academic

Didactic cycle

2024/25

Subject code

PWMPWM1S D.A200000K.02438.24

Lecture languages

english

Mandatory

Obligatory subjects

Block

Major subjects

Disciplines

Food technology and nutrition

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|-------------|--|
| Teacher | Joanna Kałuża, Dawid Madej, Ewa Sicińska, Agata Białecka-Dębek, Maria Szmidt |

| Period Summer semester | Examination Pass with grade | Number of ECTS points |
|---------------------------|---|-----------------------|
| | Activities and hours Lecture: 20 Laboratory exercises: 30 | |

Goals

| Code | Goal |
|------|--|
| C1 | Providing basic knowledge, skills and competency about role of macro- and micronutrients in the body, their use from diet; recommendations, symptoms of deficiency; main sources of nutrients in food rations. The subject is an introduction to the following subjects: Advance in Human Nutrition and Nutrition of Selected Population Groups. |

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Subject's learning outcomes

| Outcomes in terms of | Effects | Examination methods | |
|---|--|--|--|
| Knowledge - Student knows and understands: | | | |
| the role of nutrients in the body, including the body's needs | | Written credit | |
| energy content and nutritional values of foods, the main sources of nutrients in the diet, and their effect on health | | Written credit | |
| Student can: | : | | |
| identify (on a basic level) nutritional problems - deficiencies and excessive intake of some nutrients in the diet and in the organism, and can assess the composition, energy and nutritional value of food products and diet in relation to nutritional recommendations | | Written credit | |
| plan and perform simple task in the field of human nutrition individually and in a team | | Written credit | |
| ompetences - Student is ready to: | | · | |
| recognize the importance of knowledge related to human nutrition and health | | Written credit | |
| | Ige - Student knows and understands: the role of nutrients in the body, including the body's needs energy content and nutritional values of foods, the main sources of nutrients in the diet, and their effect on health Student can: identify (on a basic level) nutritional problems - deficiencies and excessive intake of some nutrients in the diet and in the organism, and can assess the composition, energy and nutritional value of food products and diet in relation to nutritional recommendations plan and perform simple task in the field of human nutrition individually and in a team competences - Student is ready to: recognize the importance of knowledge related to | the role of nutrients in the body, including the body's needs energy content and nutritional values of foods, the main sources of nutrients in the diet, and their effect on health Student can: identify (on a basic level) nutritional problems - deficiencies and excessive intake of some nutrients in the diet and in the organism, and can assess the composition, energy and nutritional value of food products and diet in relation to nutritional recommendations plan and perform simple task in the field of human nutrition individually and in a team competences - Student is ready to: recognize the importance of knowledge related to | |

Study content

| No. | Course content | Subject's learning outcomes | Activities |
|-----|--|-----------------------------|------------|
| 1. | Basic characteristic of the course, basic concepts and definitions. The importance of nutrition for health. The composition of the human body. Human metabolism and energy, methods of its measurement; energy expenditure and balance. Macronutrients: proteins, fats and carbohydrates, their division, functions in the body, digestibility and nutritional value; nutrition recommendations; major dietary sources. Vitamins and minerals: classification, role, symptoms of deficiencies and excesses, nutrition recommendations; major dietary sources. Water management in the body, electrolytes in human nutrition. Nutritional recommendations in different world regions. | W1, W2 | Lecture |

| No. | Course content | Subject's learning outcomes | Activities |
|-----|--|-----------------------------|----------------------|
| 2. | Food tables as a source of information about the nutritional value of food. Characteristics of nutritional recommendations in different world regions and their use. Energy values of food products and energy expenditure. Characteristics of content of fat, fatty acids (including EFAs) and cholesterol in foods and diet. Food products as a source of dietary fibre in a diet. Water intake with different sources - its comparison to nutritional recommendations and individual needs. Determination of fluoride content in diet and water (laboratory class). Vitamin D content in meals for chosen group of people and the prevention of its deficiency. The activity of catalase in saliva as an indicator of the assessment of the antioxidant potential of the organism (laboratory class). Planning a menu on an individual level. | U1, U2, K1 | Laboratory exercises |

Course advanced

| Activities | Methods of conducting classes |
|----------------------|---|
| Lecture | Problem lecture |
| Laboratory exercises | Case study, Discussion, Problem solving |

| Activities | Examination method | Percentage |
|----------------------|--------------------|------------|
| Lecture | Written credit | 50% |
| Laboratory exercises | Written credit | 50% |

| Activities | Credit conditions | |
|----------------------|--|--|
| Lecture | Written exam from the part of the lecture. | |
| Laboratory exercises | Written tests from class materials, and reports from classes (in students' notebooks). | |

Literature

Obligatory

- 1. Erdman JW, Macdonald IA, Zeisel AH (ed.): Present Knowledge in Nutrition. 10th edition, International Life Science Institute Press 2012.
- 2. Mahan LK, Escott-Stump S, Raymond JL (ed.): Krause's Food and the Nutrition Care Process. 13rd edition, Elsevier Saunders Press 2012.
- 3. Food Table Contents, for example: www.matvaretabellen.no, fdc.nal.usda.gov, livsmedelsverket.se/soknaringsinnehall

Calculation of ECTS points

| Activity form | Activity hours* |
|---------------|-----------------|
| Lecture | 20 |

| Laboratory exercises | 30 |
|--|--------------|
| Preparation for the test | 15 |
| Preparation for the exam | 20 |
| Self-study on the content covered in class | 10 |
| Preparation of the report | 5 |
| Student workload | Hours 100 |
| Number of ECTS points | ECTS 4 |

^{*} hour means 45 minutes