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Educational objectives (max. 6 items)

- C1. Gaining the knowledge of benefits and threats of using a genetically modified food
- C2. Characteristics of technics of obtaining genetically modified food and examples of modified nutritional products.
- C3. Characteristics of food additives used in food industry
- C4. Characteristics of threats of using genetically modified food and food additives discussion based on Evidence Based Medicine

Education result matrix for module/course in relation to verification methods of the intended education result and the type of class

		education result and the type or	ciass	
Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class **enter the abbreviation
K 01	C. W 1.	Student knows basic definitions of the scope of genetics. Student knows the technics of obtaining genetically modified food	Discussion	SE
K 02	C. W 10.	Student knows potential benefits and threats of using genetically modified food	Discussion	SE
K 03	B. W 19.	Student know the consequences of improper nutrition, especially the consumption of processed foods; Student knows possible health effects of consumption of some of the food additives	Discussion	SE
K 04		Student knows basic division and characteristics of food additives.	Discussion	SE
S 01	D. U 17.	Student critically analyzes medical literature in order to verify the knowledge regarding genetically modified food and food additives.	Discussion	SE
S 02	B. U 13.	Student explains the differences between prospective and retrospective studies, randomized and clinically-controlled studies, case studies, experimental studies and is able to categorize them regarding to their scientific relevance and quality in the view of scientific data related to health	Discussion	SE



 effects of food additives and	
GMO consumption	

** L - lecture; SE - seminar; AC - auditorium classes; MC - major classes (non-clinical); CC - clinical classes; LC - laboratory classes; SCM - specialist classes (master studies); CSC - classes in simulated conditions; FLC - foreign language course; PCP practical classes with patient; PE - physical education (obligatory); VP - vocational practice; SS - self-study, EL - E-learning.

Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:

Knowledge: 5 Skills: 3

Student's amount of work (balance of ECTS points)

Student Workload (h)		
10		
3		
13		
0,5		

Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Lectures

Seminars

- 1. Introduction to genetically modified food genetics, history, genetical engineering, biotechnology 2h
- 2. Genetically Modified Organisms (GMO)- 2h
- 3. Benefits and threats of using genetically modified food 2h
- 4. Characteristics and division of food additives used in food industry 2h
- 5. Food Safety legislation. Review of available scientific evidence of influence of consumption of food additives and genetically modified food 2h

Classes

Other

Basic literature (list according to importance, no more than 3 items)

- 1. Mahan L. "Krause's Food and Nutrition Therapy" Saunders Elsevier, 2008
- 2. Victor Tutelyan "Genetically Modified Food Sources 1st Edition" Elsevier 2013

Additional literature and other materials (no more than 3 items)

1. Yasmine Motarjemi "Encyclopedia of Food Safety" Elsevier 2013

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

Laptop, projector

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

Basics of physiology, genetics and public health

Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be med by the student to pass it and criteria for specific grades):

Presence and active attendance in the classes, preparation of presentation on chosen topic. Each absence natust be made up, including rector's days or dean's hours.

Grade:	Criteria for course
Very Good	Student knows basic definitions of the scope of genetics. Student can explain by
(5.0)	herself/himself the technics of obtaining genetically modified food. Student can
	explain by herself/himself potential benefits and threats of using genetically
	modified food. Student know the consequences of improper nutrition, especially the
	consumption of processed foods; Student knows possible health effects of
	consumption of some of the food additives. Student knows basic division and
	characteristics of food additives.
Above Good	Student knows basic definitions of the scope of genetics. Student can explain, with
(4.5)	help of the teacher, the technics of obtaining genetically modified food. Student can
	explain with help of the teacher, potential benefits and threats of using genetically
	modified food. Student know the consequences of improper nutrition, especially the
	consumption of processed foods; Student knows possible health effects of
	consumption of some of the food additives. Student knows basic division and
	characteristics of food additives.
Good	Student can name the technics of obtaining genetically modified food. Student can
(4.0)	name potential benefits and threats of using genetically modified food. Student
(,	knows basic division and characteristics of food additives.
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Sufficiently Good (3.5)	Student can name potential benefits and threats of using genetically modified food.
` ,	Student knows basic division and characteristics of food additives.
Sufficient	Student can name potential benefits and threats of using genetically modified food.
(3.0)	Student knows basic division of food additives.
Grade:	Criteria for exam (if applicable)
Very Good	
(5.0)	
Above Good	
(4.5) Good	
(4.0)	
Sufficiently Good	
(3.5)	
Sufficient	
(3.0)	

Name of unit teaching course:	Katedra i Zakład Medycyny Społecznej (Department of Social Medicine)
Address	Bujwida 44, 50-345 Wrocław
Phone	71 3282145
E-mail	Agnieszka.cieslak@umed.wroc.pl



Person responsible for	dr hab. n. med. Katarzyna Zatońska prof.nadzw.
course:	ti nao. n. mot. Katarzyna zatońska profinadzw.
Phone	71 328 21 43
E-mail	Katarzyna.zatonska@umed.wroc.pl

		classes
Dietetyka (Dietetics)	PhD studies	seminars
	Dietetyka (Dietetics)	Dietetyka (Dietetics) PhD studies

Date of Syllabus development

Syllabus developed by

dr hab. n. med. Katarzyna Zatońska

mgr Alicja Basiak

12.07.2018r.

Signature of Head of teaching unit

Uniwersytet Medyczny we Wrocławku

KATEDRA I ZAKŁAD

MEDYCYNY SPOLECZNEJ

Signature of Faculty Dean
Wroclaw Medical University
FACULTY OF MEDICINE

0

dr hab. n. med. Katarzyna Zatońska, prof. nadzw.

Prof. And ze Hendrich, Ph