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Unit teaching the course	Lectures (L)	Seminars (SE)	Auditorium Classes (AC)	Major Classes –	Clinical Classes	Laboratory	Classes in	Practical Classes	Specialist Classes	Foreign Language	Physical	Vocational Dractice (VD)	Self-Study (Student's own	E-learning (EL)
Winter Semester:						T 20	v II							
		10					- L			11.1				
					XI							<u> </u>		
Summer Semester:														

OTAL per year:	10				
OTAL per year:					

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

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 identifies the benefits and risks associated with the presence of genetically modified organisms (GMO) in the ecosystem	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	Discussion	SE



	retrospective studies, randomized	
	and clinically-controlled studies,	
	case studies, experimental studies	
	and is able to categorize them	
23	regarding to their scientific	
	relevance and quality in the view	
	of scientific data related to health	
	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's workload	Student Workload (h)	
(class participation, activity, preparation, etc.)		
1. Contact hours:	10	
2. Student's own work (self-study):	3	
Total student's workload	13	
ECTS points for module/course	0,5	
Comments		

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 must be made up, including rector's days or dean's hours.

Grade:	Criteria for course
Very Good (5.0)	Student knows basic definitions of the scope of genetics. Student can explain by 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 (4.5)	Student knows basic definitions of the scope of genetics. Student can explain, with 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 (4.0)	Student can name the technics of obtaining genetically modified food. Student can name potential benefits and threats of using genetically modified food. Student knows basic division and characteristics of food additives.
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 (3.0)	Student can name potential benefits and threats of using genetically modified food. 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)
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Phone	71 3282145
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Person responsible for	mar Alicia Basiak Pasata	
course:	mgr Alicja Basiak-Rasała	
Phone	71 328 21 43	
E-mail	alicja.basiak-rasala@umed.wroc.pl agnieszka.cieslak@umed.wroc.pl	

List of persons conducting specific classes:	degree/scientific or professional title	Discipline	Performer profession	Form of classes
Alicja Basiak-Rasała	mgr	Dietetyka (Dietetics)	Assistant	seminars

Date of Syllabus development

Syllabus developed by

dr hab. n. med. Katarzyna Zatońska

prof.nadzw.

mgr Alicja Basiak-Rasała

29.05.2020r.

Signature of Head of teaching unit

Uniwersytet Medyczny we Wrocławiu KATEDRA I ZAKŁAD MEDYCYNY SPOŁECZNEJ

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

Signature of Faculty Dean

prof. Beata Sobieszczańska, PhD

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