

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Biotechnology	and Food Inc	dustry					
Course Code		VBH632		Couse Le	vel	Third Cycle (I	Doctorate D	egree)	
ECTS Credit	3	Workload	75 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the	ne Course	To give inform to explain the						gene transfer tech	nnique and
Course Conten	t							sis of genetically med legal regulation	
Work Placemer	nt	N/A							
Planned Learni	ng Activities	and Teaching	Methods	Explanation	on (Presenta	tion), Discussi	on		
Name of Lectur	er(s)								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

- 1 Aran N, Gıda Biyoteknolojisi, 2010, Ankara
- 2 Lee BH, Fundamentals of Food Biotechnology, 2015, UK

Week	Weekly Detailed Co	urse Contents
1	Theoretical	Definition of biotechnology
2	Theoretical	Application areas of biotechnology in food industry
3	Theoretical	Identification of genetically modified organisms in food sector and GMO application methods
4	Theoretical	Gene transfer techniques in food industry
5	Theoretical	Methods used in the analysis of genetically modified organisms in the food sector
6	Theoretical	Protein determination for methods
7	Theoretical	Investigation of DNA based methods
8	Theoretical	Midterm exam
9	Theoretical	Overview of the proposed risk management system in terms of biosecurity and biodiversity
10	Theoretical	Determination of potential risks in genetically modified foods
11	Theoretical	Benefits of genetically modified foods
12	Theoretical	Assessment of health hazards of GMOs in food sector
13	Theoretical	Determination of GMOs in food sector
14	Theoretical	Labeling of GMOs in food industry
15	Theoretical	Examination of legal regulations on genetically modified foods in food sector

Workload Calculation					
Activity	Quantity	Р	reparation	Duration	Total Workload
Lecture - Theory	14		1	1	28
Assignment	10		1	1	20
Midterm Examination	1		10	1	11
Final Examination	1	, T	15	1	16
			To	otal Workload (Hours)	75
		[To	otal Workload (Hours) / 25*] = ECTS	3
*25 hour workload is accepted as 1 ECTS					

Learning Outcomes

1 Definition and history of biotechnology



2	Application areas of biotechnology	
3	Gene transfer technique in food industry	
4	Learning the methods used in the detection of genetically m	odified organisms in the food sector
5	To have knowledge about the benefits and harms of genetic	cally modified foods in the food sector
6	Assessment of health risks of GMOs in food sector	

Progra	amme Outcomes (Food Hygiene and Technology (Veteri	inary Medicine) Doctorate)
1		
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Contri	bution	of Lea	rning (Outcon	nes to l	Progra
	L1	L2	L3	L4	L5	L6
P1	4	4	4	4	4	4
P2	4	4	4	4	4	4
P3	5	5	5	5	5	5
P4	5	5	5	5	5	5
P7	5	5	5	5	5	5
P9	5	5	5	5	5	5
P10	4	4	4	4	4	4
D40					_	_

