

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Food Technol	ogy Machiner	y					
Course Code		ZTM614		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	176 (Hours)	Theory	3	Practice	0	Laboratory	0
filtratio crushir		filtration, ferm	entation, paste ning-grinding,	eurization pr separating t	ocess, ster	ilizing process	, steam trea	entrifugal separati tment, distillation, nfection principles	drying,
Course Content		filtering and fil and equipmen	ters, and the s it sterilization ling processes	stages of the process, hul	e fermentati harlı proces	on process, th sing, distillatio	e pasteuriza n and steam	ess, centrifugal sep ation process and r n boilers, drying, cr d hybrid machines	machines, rushing-
Work Placement		N/A							
Planned Learning Activities		and Teaching	Methods	Explanation Problem So	`	tion), Demons	tration, Disc	ussion, Individual	Study,
Name of Lecturer(s)									

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

Recommended or Required Reading

- 1 Süt İşleme Mühendisliği. Oysun, G., Gönç, S., 1996. EÜ Ziraat Fak.Yay., No:522, İzmir
- 2 Meyve ve Sebze İşleme Teknolojisi 2 cilt., Acar, J., 2006. Uğurer Yayıncılık, İstanbul

Week	Weekly Detailed Cour	se Contents			
1	Theoretical	course disposition, introduction			
2	Theoretical	Technical physics, the laws of thermodynamics			
3	Theoretical	Technical physics, the laws of thermodynamics			
4	Theoretical	Extraction process of precipitation			
5	Theoretical	Centrifugal separation process			
6	Theoretical	Filtering and Filters			
7	Theoretical	And stages of the fermentation process			
8	Intermediate Exam	Midterm exam			
9	Theoretical	The pasteurization process and equipment			
10	Theoretical	The sterilization process and equipment			
11	Theoretical	Steam processing, distillation and steam boilers			
12	Theoretical	Drying, crushing-crushing-grinding processes and machines			
13	Theoretical	Varieties separation, cleaning, and mixed-cleaning machines			
14	Theoretical	Varieties separation, cleaning, and mixed-cleaning machines			
15	Theoretical	Dezenfeksiyon prensipleri, uygulamaları			
16	Final Exam	Final exam			

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	2	2	56		
Lecture - Practice	14	0	2	28		
Assignment	14	0	2	28		
Term Project	1	0	40	40		
Midterm Examination	1	10	2	12		



Final Examination	1		10	2	12	
Total Workload (Hours)			176			
			[Total Workload (Hours) / 25*] = ECTS	7	
*25 hour workload is accepted as 1 ECTS						

Learn	ing Outcomes
1	Learning concepts related to food technology
2	A knowledge of the systems used in food technology
3	Food processing, analyzing and editing procedures
4	Food processing technologies and systems used in the calculation of machine learning and applications
5	Food processing technologies and systems used in the calculation of machine learning and applications

Progr	amme Outcomes (Agricultural Machinery Doctorate)					
1	Identification, formulation and solving the problems in the field of Agricultural Machinery					
2	The ability to use modern engineering tools and techniques					
3	The ability to use the information, which is obtained by following the scientific and technological developments, in the academic life and practice.					
4	The ability to evaluate multi-faced relationship between them by understanding interaction among agricultural technology, soil, plants and animals					
5	Professionalism and ethical responsibility					
6	The ability to work in disciplinary and multi-disciplinary teams					
7	The ability to communicate effectively					
8	The ability to do research for accessing information and to use data base and other resources					
9	The ability to do analyze and interpret the experimental results and the design of experiment					
10	The ability to identify and interpret knowledge of current professional issues and events					
11	The ability to get aware the universal and social effects of engineering solutions and applications					
12	Accordance with the requirements of science and technology, ability to use scientific knowledge creative					

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High L1 L2 L3 L4

	L1	L2	L3	L4
P1	5	5	5	5
P2	5	5	5	5
P3	5	5	5	5
P4	5	5	5	5
P5	4	4	4	4
P6	4	4	4	4
P8	5	5	5	5
P9	5	5	5	5
P10	5	5	5	5
P11	5	5	5	5
P12	5	5	5	5

