

#### AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Drying Technology							
Course Code		MSİ203		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 <i>(Hours)</i>	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		To have know	To have knowledge about drying methods of fruit vegetables						
Course Content		Drying methor	ds, have know	ledge abo	ut packaging	and storage o	f dried produ	ucts	
Work Placement		N/A							
Planned Learning Activities		and Teaching	Methods	Explanation	on (Presentat	tion), Demonst	ration		
Name of Lecturer(s)									

# Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination	1	40	
Final Examination	1	70	

## **Recommended or Required Reading**

1 Cemeroğlu, B., Karadeniz, F., 2001. "Fruit Juice Technology", Food Technology Association, İzmir

2 Acar, J. ve Cemeroğlu, B., 1998. "Fruit and Vegetables Technology", Volume II, Hacettepe University, Engineering Faculty Publications, Ankara

Week	Weekly Detailed Cour	Detailed Course Contents				
1	Theoretical					
		Drying history				
	Practice	General promotion				
2	Theoretical	Principles of drying				
	Practice	Boiling test				
3	Theoretical	Degrading microorganisms				
	Practice	Dried fruit production				
4	Theoretical	Water activity and measurement methods				
	Practice	Production of dried vegetables				
5	Theoretical	Sorption Isotherm				
	Practice	Determination of Sulfur Dioxide				
6	Theoretical	Drying methods				
	Practice	Determination of water activity				
7	Theoretical	Changes during drying				
	Practice	Dry matter analysis methods				
8	Intermediate Exam	Midterm				
9	Theoretical	Pre-treatment before drying				
	Practice	Dry matter analysis with DFA				
10	Theoretical	Packaging and storage of dried products				
	Practice	Dry matter analysis with infrared				
11	Theoretical	Changes of dried products during storage				



11	Practice	Preservative analysis
12	Theoretical	Mass balance of dried products
	Practice	Color analysis
13	Theoretical	Consumption of dried products
	Practice	Mass equivalence calculations
14	Theoretical	Semi-dried products
	Practice	Mass equivalence calculations
15	Theoretical	Semi-dried products
	Practice	Mass equivalence calculations
16	Final Exam	Final Exam

#### **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Individual Work	14	0	2	28
Midterm Examination	1	7	1	8
Final Examination	1	7	1	8
	100			
	4			

\*25 hour workload is accepted as 1 ECTS

## Learning Outcomes

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1	To comprehend the importance of the composition and structure of fruits and vegetables in fruit and vegetable processes
2	To have knowledge about drying methods of fruit vegetables
3	Learning the basic process steps of a process
4	To be able to grasp the important points in each process for quality production
5	To have information about safe fruit and vegetable products production

## Programme Outcomes (Fruit and Vegetables Processing Technology)

1	To be able to understand social, cultural and social responsibilities and to have the ability to follow national and international contemporary
2	In line with the principles and reforms of Atatürk; Adopting the national, moral, spiritual and cultural values ??of the Turkish Nation, open to universal and contemporary developments, the Turkish language is a rich, rooted and productive language; love and awareness of language; to have the ability to use the foreign language sufficiently and with the habit of reading and professionally.
3	To know the basic hardware units and operating systems of computer, internet to be able to prepare documents, spreadsheets and presentations on the computer by using office programs
4	Gains the theoretical and practical knowledge at the basic level in mathematics, science and professional fields
5	Recognize and analyze the problems with the knowledge of fruit and vegetable technology in the field, interpret the data and propose solutions.
6	According to the prepared work plan and program in laboratories, it can carry out the necessary works to obtain the desired quality product.
7	To have professional and ethical responsibility in business life.
8	It is open to development and change, follows scientific social and cultural innovations and constantly improves itself.

## Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5
P1	2	2	3	2	5
P2	2	2	3	2	2
P3	1	1	1	1	1
P4	3	3	4	4	4
P5	5	4	4	5	5



P6	4	4	5	4	5
P7	4	4	3	3	5
P8	3	3	3	3	5