

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Quality Contro	ol in Fruit and	Vegetable Pr	oducts				
Course Code	MSi208		Couse Leve		Short Cycle (Associate's	Degree)	
ECTS Credit 4	Workload	100 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	It is aimed to to processing an			and veget	table processir	ng and to co	ntrol quality in raw	material,
Course Content		y control depa	artment, funct	ions and r	elations with o		anagement system ensory, physical, o	
Work Placement	N/A							
Planned Learning Activities	and Teaching	Methods	Explanation	(Presenta	tion), Demons	tration		
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. 2010. Food analysis. Food Technology Association Publications
- Altuğ, T., Ova, G., Demirağ, K., Kurtcan, Ü., 1995, 1995 Food Quality Control Ü, Ege University Faculty of Engineering Publications No: 29, Ege University Press

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Quality control and standardization concepts and their importance, quality management systems
	Practice	General evaluation
2	Theoretical	Quality control department in food industry, its functions and relations with other units
	Practice	Important quality control parameters in food enterprises
3	Theoretical	Basic quality control concepts, food standards
	Practice	Create a HACCP plan
4	Theoretical	Quality criteria affecting the shelf life of foods
	Practice	Shelf life in fruits and vegetables
5	Theoretical	Defects in food, viscosity, consistency, flavor, adulteration, imitation and falsification concepts
	Practice	Introduction of physical analysis equipment in fruits and vegetables
6	Theoretical	Sensory, physical, chemical and instrumental evaluations of foods
	Practice	Introduction of chemical analysis equipment in fruits and vegetables
7	Theoretical	Sensory evaluations in fresh fruit vegetables (color, appearance, flavor)
	Practice	Color analysis in fruits and vegetables
8	Intermediate Exam	Midterm
9	Theoretical	Physical and chemical evaluations in fresh fruit vegetables (aw, moisture, ash, total dry matter, water soluble dry matter)
	Practice	Determination of moisture and ash in fruits and vegetables
10	Theoretical	Physical and chemical evaluations of fruit and vegetable products (aw, moisture, ash, total dry matter, water soluble dry matter, ash)
	Practice	Determination of water soluble dry matter in fruits and vegetables
11	Theoretical	Physical and chemical evaluations in fresh fruit vegetables (salt, sugar, titration acidity, pH)
	Practice	Fruit and vegetables pH, sugar analysis
12	Theoretical	Physical and chemical evaluations of fruit and vegetable products (salt, sugar, acidity, pH)
	Practice	Determination of salt and acidity in fruits and vegetables
13	Theoretical	Physical and chemical evaluations of fruit and vegetable products (protein, ascorbic acid, alcohotannin)



13	Practice	Determination of protein in fruits and vegetables
14	Theoretical	Physical and chemical evaluations of fruit and vegetable products (protein, ascorbic acid, alcohol, tannin)
	Practice	Determination of ascorbic acid in fruits and vegetables
15	Theoretical	An overview
	Practice	Determination of phenolic compounds in fruits and vegetables
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			
		[Total Workload (I	Hours) / 25*] = ECTS	4
*25 hour workload is accepted as 1 ECTS				

Learn	ing Outcomes
1	To understand the concept of quality and its importance
2	To be able to comprehend quality criteria in fruit and vegetable products
3	To be able to develop quality control knowledge and skills
4	To be able to apply quality control methods, identify problems and propose solutions
5	To learn about Food Codex

Progr	amme 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.

tri	ibution	of Lea	rning (Outcon	nes to l
	L1	L2	L3	L4	L5
P1	2	2	2	3	3
P2	2	2	2	3	3
P3	2	2	2	2	2
P4	3	3	3	3	3
P5	4	4	3	3	3
P6	3	3	4	4	4
P7	4	4	5	4	5
P8	4	4	5	4	5

