

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Food Additives	3									
Course Code		LBT112		Couse Lev	⁄el	Short Cycle (Associate's Degree)						
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0			
Objectives of t	he Course	To inform the students about the use of food additives in foods and the additives that are allowed to be used in foods. To raise awareness about the materials which are not allowed to use in the gardens and which are used for the purpose of cheating and adulteration. It is to gain a conscious approach to the relationship between public health and the use of food additives and food additives as well as additives										
Course Content		Evaluation of r structure, prop Emulsifiers: cla structure, prop classification, özellikleri, fonk	nutrient senso perties, function assification, co perties, function chemical struction asiyonlari, Fla inhibitors: cli	ory propertie ons, Acidity chemical stro ons, Gums: cture, prope ovors and sv	es and healt regulators: oucture, propolassification erties, function veeteners: o	h of additives, classification, of erties, function n, chemical str ons, Renklend classification, c	Antioxidants: chemical structure, proper iriciler: structure, bronger iriciler: structure.	sification of additiclassification, checture, properties, series; classification, orties, functions, Padirilmasi, kimyasture, properties, fs, Food additives	emical functions, chemical Protectors: sal yapısı, unctions,			
Work Placeme	ent	N/A										
Planned Learning Activities and Teaching Methods			Methods	Explanation	n (Presentation), Individual Study							
Name of Lectu	ırer(s)	Ins. Hilal DEMİRPENÇE										
Name of Lecturer(s) Ins. Hilal DEMİRPENÇE												

Assessment Methods and Criteria										
Method			Quantity	Percentage (%)						
Midterm Examination			1	40						
Final Examination			1	70						

Reco	mmended or Required Reading									
1	Saldamlı, İ. (1985). Gıda Katkı Maddeleri ve İngrediyenler. Hacettepe Üniversitesi Mühendislik Fakültesi, Gıda Mühendisliği Bölümü. Ankara									
2	Çakmakçı, S. ve Çelik, İ. (2000). Gıda Katkı Maddeleri. Atatürk Üniversitesi Ziraat fakültesi Ofset Tesisi. Erzurum									
3	Gıda Katkı Maddeleri, Ömer Özdemir, Doç. Dr. Hilmi Namlı Ders Notları									
4	Gıda Katkı Maddeleri Ve İnsan Sağlığı Üzerine Etkileri, Zeynep Erden Çalışır, Deniz Çalışkan, Ankara Üniversitesi Eczacılık Fakültesi, Halk Sağlığı Bölümü Ankara Ecz. Fak. Derg. 32 (3) 207-206, 2003									
5	Yeni Ürün Geliştirmede Gıda Katkı Maddelerinin Fonksiyonları ve Önemi, Erdoğan Küçüköner, Süleyman Demirel Üniversitesi Ziraat Fakültesi, Gıda Mühendisliği Bölümü, Gıda (2006) 31 (3) : 175-181									
6	Gıda Katkı Maddeleri, Prof. Dr. Tomris Altuğ									
7	Gıda Katkı Maddeleri ADU Çine Meslek Yüksekokulu Öğr. Gör. Dr. Engin Yaralı									
8	Gıda Katkı Maddeleri Genel Bilgiler ve Tanımlar, Nuray Gamze YÖRÜK, Erdem DANYER									
9	Millî Eğitim Bakanlığı, Gıda Teknolojisi, Fenolik Bileşikler Ve Doğal Renk Maddeleri, Ankara, 2013									
10	Gıda Katkı Maddeleri ve Gıda Kontaminantları, Prof. Dr. Ali Esat Karakaya									
11	Gıda Katkı Maddeleri, Yakın Doğu Üniversitesi, Yrd. Doç. Dr. Serdar Susever, Ders Notları									
12	Türk Gıda Kodeksi 30.06.2013 Tarih ve 28693 Sayılı Gıda Katkı Maddeleri Yönetmeliği									

Week	Weekly Detailed Cour	Contents										
1	Theoretical	Definition and use of additives										
	Practice	Recognition of additives										
	Preparation Work	Supply of visual materials										
2	Theoretical	Legal regulations on additive substances										
	Examination of legal regulations in Turkey and in the world											
	Preparation Work	Supply of visual materials										
3	Theoretical	Classification of additives										
	Practice	Examination of Food Additives Classes										
	Preparation Work	Supply of visual materials										
4	Theoretical	Antioxidants: classification, chemical structure, properties, functions										
	Practice	Examination of antioxidants in vegetable oils by peroxide test										



4	Droporotion Mail	Course Information For						
4	Preparation Work	Supply of visual materials						
5	Theoretical	Acidity regulators: classification, chemical structure, properties, functions						
	Practice	Examination of acidity regulators						
	Preparation Work	Supply of visual materials						
6	Theoretical	Emulsifiers: classification, chemical structure, properties, functions						
	Practice	Recognition of Emulsifiers						
	Preparation Work	Supply of visual materials						
7	Theoretical	Stabilizators: classification, chemical structure, properties, functions,						
	Practice	Recognition of stabilizers						
	Preparation Work	Supply of visual materials						
8	Intermediate Exam	Mid-term exam						
9	Theoretical	Gums: classification, chemical structure, properties, functions						
	Practice	Examination of Gums						
	Preparation Work	Supply of visual materials						
10	Theoretical	Protectors: classification, chemical structure, properties, functions						
	Practice	Investigating Protectors with experimental prefixes						
	Preparation Work	Supply of visual materials						
11	Theoretical	Colorants: classification, chemical structure, properties, functions						
	Practice	Examination of colorants with experimental examples						
	Preparation Work	Supply of visual materials						
12	Theoretical	Flavors and sweeteners, Agglomeration inhibitors: classification, chemical structure, properties, functions,						
	Practice	Taste and sweeteners, Examination of aggravation inhibitors						
	Preparation Work	Supply of visual materials						
13	Theoretical	ADI (Acceptable Daily Intake) calculation methods for daily allowance						
	Practice	Making calculations with examples						
	Preparation Work	Supply of visual materials						
14	Theoretical	ADI (Acceptable Daily Intake) calculation methods for daily allowance						
	Practice	Making calculations with examples						
	Preparation Work	Supply of visual materials						
15	Theoretical	Evaluation of nutrient sensory properties and health of additives,						
	Practice	Examination of the taste and health effects of foods containing added food additives at certain ratios						
	Preparation Work	Supply of visual materials						
16	Final Exam	Final Exam						

Workload Calculation										
Activity	Quantity	Preparation	Duration	Total Workload						
Lecture - Theory	14	0	2	28						
Individual Work	14	0	2	28						
Midterm Examination	1	5	2	7						
Final Examination	1	10	2	12						
	75									
	3									
*25 hour workload is accepted as 1 ECTS										

Learning Outcomes								
1	Describe basic concepts and expressions about additives that prolong shelf life							
2	2 Describe basic concepts and expressions of additives used to modify sensory properties							
3	Explain basic concepts and expressions about additives used to increase nutritional value							
4	Learn color materials							
5	Learn harmful additives							
6	Describe basic concepts and expressions related to process auxiliary additives							



Progra	amme Outcomes (Laboratory Technology)
1	To be able to comprehend social, cultural and social responsibilities, to be able to follow national and international contemporary problems and developments
2	Atatürk is bound to Atatürk nationalism in the direction of principles and reforms; Adopting the national, moral, spiritual and cultural values of the Turkish people, open to universal and contemporary developments, the Turkish language is a rich, rooted and productive language; Have a love of language and a consciousness; To have the ability to use as much of a foreign language as he would need to read, taste and habit and professionally.
3	To be able to recognize the basic hardware units and operating systems of a computer, having information about internet usage and preparing documents, spreadsheets and presentations on computer by using office programs.
4	Acquires theoretical and practical knowledge at the basic level in mathematics, science and vocational field.
5	With the knowledge of laboratory technology in the field, he knows and analyzes problems, brings interpretation of data and suggests solutions.
6	In laboratories, according to the prepared business plan and program, necessary work can be done to obtain the desired quality products.

,	To have professional and ethical responsibility in bas	on icoo nic.		
8	Development and change are open, follow scientific	social and cultural innov	vations, and develop	themselves constantly.

Contr	Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High)			
	L1	L2	L3	L4	L5	L6											
P5	5	5	5	5	5	5											
P6	5	5	5	5	5	5											
P8	4	4	4	4	4	4											

To have professional and ethical responsibility in business life.

