

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Food Fortification and Bioavailability							
Course Code		GMP506		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 8		Workload	200 (Hours)	Theory	3	Practice 0		Laboratory	0
Objectives of the Course		Malnutrition and studies to solve this problem and food fortification will be handled in this course							
Course Content		Enrichment of foods, enriched methods and bioavailability will be covered.							
Work Placement		N/A							
Planned Learning Activities and		and Teaching	Methods	Explanation	(Presentat	tion), Discussio	on, Case Stud	y, Individual Stud	ly
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination	1	40	
Final Examination	1	60	

Recommended or Required Reading

- Lotfi,M ; Mannar, V.G. ; Merx, R.; Heuvel,P. Micronutrient Fortification of Foods. International Agriculture Centre Publication, Canada,1996
 Jackson,J.M.; Fairweather-Tait,S.J. (Ed) Assessment of the Bioavailability of Micronutrients. Prooceedings of an ILSI Europe
 - 2 Workshop, UK, 1996

Week	Weekly Detailed Course Contents						
1	Theoretical	Frequency and importance of malnutrition of micronutrients					
2	Theoretical	Causes of malnutrition of micronutrients					
3	Theoretical	The choise of food for fortification					
4	Theoretical	The choise of micronutrient for fortification					
5	Theoretical	The cost and interaction of micronutrient for fortification					
6	Theoretical	The toxicity of micronutrient for fortification					
7	Intermediate Exam	Exam					
8	Theoretical	The biological use of micronutrient					
9	Theoretical	The biological transform of micronutrient					
10	Theoretical	Food fortification techniques-I					
11	Theoretical	Food fortification techniques-II					
12	Theoretical	Food fortification techniques-III					
13	Theoretical	The examination of researches and applications about fortification					
14	Final Exam	Final exam					

Workload Calculation

Activity	Quantity		Preparation	Duration		Total Workload	
Lecture - Theory	14		9	3		168	
Midterm Examination	1		15	1		16	
Final Examination	1		15	1		16	
	200						
[Total Workload (Hours) / 25*] = ECTS						8	
*25 hour workload is accepted as 1 FOTS							

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1		
2		
3		
4		



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Programme Outcomes (Food Engineering Master)

1	To provide further	training and rese	earch opportunities to	food engineers to	meet the need	is of the food industry
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- 2 To develop and deepen the current and advanced knowledge in the field of food engineering with original thought and / or research at the level of expertise, based on the qualifications of the master
- ³ To identify, define, formulate and solve problems in applications related to Food Engineering and gain the ability to select and apply appropriate analytical methods and modeling techniques
- 4 To gain the ability to evaluate the accuracy of the data obtained from food analysis
- 5 To educate students having research, entrepreneur qualifications

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	1				
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	1				
P5	2	2	2	2	2

