

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Carbonhydrate Chemistry								
Course Code		GMP501		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit	8	Workload	200 (Hours)	Theory		3	Practice	0	Laboratory	0
Objectives of the Course		This course aims to inform the student about the structure, properties and the functions of the carbohydrates.								
Course Content		structure of th This course in	e carbohydra icludes classi	te. fication of	Carbo	nydrate	and detail ex	amination of	nemical properties carbohydrates.	
Work Placement N/A										
Planned Learning Activities and Teaching Methods		Explana	tion (P	esenta	tion), Discuss	ion, Case St	udy, Individual Stu	ıdy		
Name of Lecturer(s)										

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

Recommended or Required Reading					
1	Saldamlı İ., Gıda Kimyası, 1998, Ankara				
2	Fennema, O., Food Chemistry, 1996				
3	Horton, D., Advances in Carbonhydrate Chemistry and Biochemistry,1970				

Week	Weekly Detailed Cour	se Contents					
1	Theoretical	Monosaccharides					
2	Theoretical	Oligosaccharides					
3	Theoretical	Polysaccharides					
4	Theoretical	Physical properties of carbonhydrates					
5	Theoretical	Chemical properties of carbonhydrates					
6	Theoretical	Carbonhydrate reactions					
7	Intermediate Exam	Exam					
8	Theoretical	The attitudes of polysaccharides in liquid, dispersion and gels					
9	Theoretical	Starch, cellulose and hemicelluloses					
10	Theoretical	Gums					
11	Theoretical	Sweeteners					
12	Theoretical	Nutrient fibre					
13	Theoretical	The effect of food operations on carbonhydrates					
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		
Total Workload (Hours)						
[Total Workload (Hours) / 25*] = ECTS						
*25 hour workload is accepted as 1 ECTS						



Learni	Learning Outcomes					
1						
2						
3						
4						
5						
6						

Programme Outcomes (Food Engineering Master)

- 1 To provide further training and research opportunities to food engineers to meet the needs of the food industry
- 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
- 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	L6
P1	5	4	4	5	5	4
P2	3	3	3	5	5	3
P3	1					
P4				4	4	4
P5	1					

