	RHEOLOGY AND	TEXT	JRE OF DAIRY PRODUCTS						
1	Course Title:	RHEOLOGY AND TEXTURE OF DAIRY PRODUCTS							
2	Course Code:	GMB5051							
3	Type of Course:	Optional							
4	Level of Course:	Second Cycle							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr.	TÜLAY ÖZCAN						
15	Course Lecturers:	Prof. Dr. Lütfiye YILMAZ ERSAN							
16	Contact information of the Course Coordinator:	Prof. Dr. Tülay ÖZCAN Uludağ Üniversitesi Ziraat Fakültesi Gıda Mühendisliği Bölümü 16059 Görükle/Bursa Tel: 0 224 2941498							
17	Website:								
18	Objective of the Course:	The aim of the course is giving detailed information about rheology and textural properties of dairy products.							
19	Contribution of the Course to Professional Development:	The course provides students with knowledge about rheology and texture in dairy products.							
20	Learning Outcomes:								
		1	To have an information about rheology, texture and fluid behavior of dairy products.						
		2	To have an idea about effects of factors on rheological and textural properties of dairy products.						
			To have an information about instrumental measurement with rheometer, texture analyzer and microscopy.						
		4	To be able to explain how to get the paper about their field of study.						
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21	Course Content:								
	Course Content:								
	Theoretical		Practice						
1	Definition of texture and rheology								
2	Rheological classification of fluid foo								
3	Determination of rheological technique	ues							

4	Measurement of rheological technique Rheometer	les and								
5	Determination of textural techniques Texture Profile Analyzers (TPA)	and								
6	Microstructure of dairy products and microscopy									
7	Gel properties of dairy products									
8	Effect of milk processing on dairy foo rheology and texture	d								
9	Effect of additives on dairy food rheo texture	logy and								
10	Innovative techniques to improve dai quality	ry food								
11	Rheology of dairy products (Yoghurt Cheese, Butter)	,								
12	Student presentations									
13	Student presentations									
14	Student presentations									
22 Activit	Textbooks, References and/or Other Materials: :es		Blanshard, J.M.V., Lillford, P. (1987) Food Structure and Behaviour. Academic Press, London, Eng. Bourne, M.C. (2002) Food texture and viscosity - concept and measurement. New York: Academic Press Combustion. Mc Graw-Hill. 2nd Ed. Gunasekaren, S., Ak, M.M. (2003) Cheese Rheology and Texture (CRC Press ed.). London: CRC Press. Number Duration (hour) Total Work Load (hour)							
Theore	tical		Y	ofrik.	3.00	42.00				
Practic	als/Labs			0	0.00	0.00				
Self stu	dy and preperation		M	ogskowitz, H.R. (1987) Foogl Texture: Instrugt on an						
Homew	vorks			1	20.00	20.00				
Project	8		P	uplishers Turns	0.00	0.00				
Field S	tudies			0	0.00	0.00				
Midtern	n exams		G	ajthersburg, MD.	0.00	0.00				
Others				0	0.00	0.00				
Final E	xams		T	amime, A.Y. (2008) Sti	vogtonge of Dairy Pro	chහctso John				
Total W	Vork Load					174.00				
T o23 w	ውድሬ መረጫ የ					5.80				
ECTS	Credit of the Course	я	_			6.00				
Midtern	n Exam	0.00								
Midterm Exam 0 Quiz 0				0.00						
Home work-project 1				20.00						
Final Exam 1				80.00						
Total 2				100.00						
	oution of Term (Year) Learning Activitiess Grade	es to	20.00							
Contrib	ution of Final Exam to Success Grade	9	80.00							
Total			100.00							
Measurement and Evaluation Techniques Used in the Course				Homework is given and a final exam is made.						

24	ECTS	TS / WORK LOAD TABLE														
25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	5	5	5	3	3	3	4	4	3	0	0	0	0	0	0
ÖK2	5	5	5	5	3	3	3	4	4	3	0	0	0	0	0	0
ÖK3	5	5	5	5	3	3	3	4	4	3	0	0	0	0	0	0
ÖK4	5	5	5	5	3	3	3	4	4	3	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib1 very low2utionLevel:1			2 low		3 Medium			4 High				5 Very High				