BIOCHEMISTRY OF DAIRY PRODUCTS									
1	Course Title:	BIOCHE	MISTRY OF DAIRY PRODUCTS						
2	Course Code:	GMB5337							
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	00						
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	Non							
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Prof. Dr.	TÜLAY ÖZCAN						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Prof. Dr. Tülay ÖZCAN Bursa Uludağ Üniversitesi Ziraat Fakültesi Gıda Mühendisliği Bölümü 16059 Görükle/Bursa Tel: 0 224 2941498 Fax: 0 224 2941402 e-posta: : tulayozcan@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	The purpose of this course that students are informed about the chemical and bio-chemical changes occurring during manufacturing of milk products.							
19	Contribution of the Course to	The course builds on students' knowledge of chemical and biochemical changes in milk.							
	Professional Development:	biochem							
20	Learning Outcomes:	biocnem							
20	•	1							
20	•		ical changes in milk.						
20	•	1	Informing about physical properties of milk Informing about chemistry of casein and coagulation						
20	•	1 2	Informing about physical properties of milk Informing about chemistry of casein and coagulation mechanism of milk Informing about the chemical and bio-chemical changes (glycolysis, proteolysis and lipolysis) occurring during						
20	•	1 2 3	Informing about physical properties of milk Informing about chemistry of casein and coagulation mechanism of milk Informing about the chemical and bio-chemical changes (glycolysis, proteolysis and lipolysis) occurring during manufacturing of milk products Informing about rheological and textural properties of the						
20	•	1 2 3	Informing about physical properties of milk Informing about chemistry of casein and coagulation mechanism of milk Informing about the chemical and bio-chemical changes (glycolysis, proteolysis and lipolysis) occurring during manufacturing of milk products Informing about rheological and textural properties of the milk Informing about trace elements of milk (vitamins and						
20	•	1 2 3 4	Informing about physical properties of milk Informing about chemistry of casein and coagulation mechanism of milk Informing about the chemical and bio-chemical changes (glycolysis, proteolysis and lipolysis) occurring during manufacturing of milk products Informing about rheological and textural properties of the milk Informing about trace elements of milk (vitamins and minerals etc.) Informing about contaminants in milk and milk products						
20	•	1 2 3 4 5	Informing about physical properties of milk Informing about chemistry of casein and coagulation mechanism of milk Informing about the chemical and bio-chemical changes (glycolysis, proteolysis and lipolysis) occurring during manufacturing of milk products Informing about rheological and textural properties of the milk Informing about trace elements of milk (vitamins and minerals etc.) Informing about contaminants in milk and milk products						

		10								
21	Course Content:									
	Course Content:									
Week	Theoretical		Practice							
1	Formation of milk									
2	Physical Properties of Milk -1									
3	Physical Properties of Milk -2									
4	Milk Lipids and Changes in Lipids									
5	Milk Proteins and Changes in Protein	ıs								
6	Lactose and Its Reactions									
7	Chemistry of Casein and Coagulation Mechanism of Milk	1								
8	Glycolysis, Proteolysis and Lipolysis and Milk Products	in Milk								
Activit	es		Number	Duration (hour)	Total Work Load (hour)					
Theore	Reducts		14	2.00	28.00					
Practica	als/Labs		14	2.00	28.00					
Self1stu	dVyinærnal prierple/hid/tion		14	2.00	28.00					
Homew	rorks		4	10.00	40.00					
Pr ø βect	Microbial Changes in Milk and Milk P	roducts	0	0.00	0.00					
Field St			0	0.00	0.00					
Midtern	Allotoxiir ivii, Allitolotic, Pesticides all Remains etc.	<u> </u>	0	0.00	0.00					
Others			0	0.00	0.00					
Filia E	Textbooks, References and/or Other Materials:		Prof. Tülay ÖZCAN, Un	published Lecturer	00015 (ASSOC. 150 00 Note)					
Total W	ork Load				174.00					
Total w	ork load/ 30 hr		Dairy Chemistry and Bio	chemistry (Edited b	5. 8 9. Fox,					
	Credit of the Course		Milk and Milk Products: microbiology (Edited by	Technology, Chemi	istry, and					
	Assesment		I							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT							
Midtern	n Exam	0	0.00							
Quiz		0	0.00							
Home v	vork-project	4	50.00							
Final Ex	kam	1	50.00							
Total		5	100.00							
	ution of Term (Year) Learning Activitie s Grade	es to	50.00							

Contribution of Final Exam to Success Grade							50.	50.00								
Total							100	100.00								
Measurement and Evaluation Techniques Used in the Course							е Но	Homework is given and a final exam is made.								
24 EC	TS/	WOI	RK L	OAD	TAB	LE										
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	5	4	4	4	3	4	0	0	0	0	0	0
ÖK2	5	5	5	5	5	4	4	4	3	4	0	0	0	0	0	0
ÖK3	5	5	5	5	5	4	4	4	3	4	0	0	0	0	0	0
ÖK4	5	5	5	5	5	4	4	4	3	4	0	0	0	0	0	0
ÖK5	5	5	5	5	5	4	4	4	3	4	0	0	0	0	0	0
ÖK6	5	5	5	5	5	4	4	4	3	4	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					