ADVANCED FOOD BIOCHEMISTRY										
1	Course Title:	ADVAN	CED FOOD BIOCHEMISTRY							
2	Course Code:	GMB6023								
3	Type of Course:	Optional								
4	Level of Course:	Third Cycle								
5	Year of Study:	2								
6	Semester:	3								
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:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. CANAN ECE TAMER								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi Ziraat Fakültesi Gıda Mühendisliği Bölümü 16059 Görükle/Bursa Tel: 0224 2941491 Fax: 0224 2941402 e-posta: etamer@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	The aim of the course is to give information about metabolic pathways in living systems and biochemistry of raw and processed foods (dairy foods, meat and marine products, fruits and vegetables).								
19	Contribution of the Course to Professional Development:	Students taking the course will learn in detail the metabolic pathways, biochemical changes in processed and raw foods.								
20	Learning Outcomes:									
		1	The students will be able to learn metabolism, metabolic patways and cycles							
		2	The students will be able to explain of enzymes and their kinetic properties							
		3	The students will be able to learn biochemical reactions of CHO in food processing and storage							
		4	The students will be able to learn biochemical reactions of lipids in food processing and storage.							
		5	The students will be able to know Krebs cycle							
		6	The students will be able to learn photosynthesis							
		7	The students will be able to have information about biochemistry of raw and processed foods (dairy foods, meat and marine products, fruits and vegetables							
		8								
		9								
		10								
21	Course Content:									
	Course Content:									

Week	Theoretical		Pra	Practice							
1	Metabolism: Termodynamic principle energy in biochemical reactions	s and									
2	Oxidation and phosphorylation of foo macromolecules	d									
3	Biosynthesis of macromolecules										
4	Photosynthesis										
5	Enzymes, their kinetic properties and	luses									
6	Carbohydrate metabolism										
7	Glicolytic patway; gluconeogenesis; Glyoxylate cycle										
8	Synthesis and metabolism of glicoge	ne									
9	Starch biosynthesis										
10	Krebs cycle										
11	Lipid metabolism										
12	Biochemistry of raw and processed for (dairy foods, meat and marine produc										
13	Biochemistry of raw and processed for	oods									
Activit				Number c <u>jure notes</u>	Duration (hour) 3.00	Total Work Load (hour) 42.00					
	Materials:	Ц.		0.00							
	als/Labs			0.00							
	dy and preperation		Ak	soy, M. 2011. Beslen	ne Biyokimyası. Ha 40.00						
Homew					40.00						
Project				iz, F. 2010. Advance المجابي العربي (<u>iz, F. 2010. Advance</u>) المحتوي المحتوي (<u>iz, F. 2010. Advance</u>) المحتوي (iz, F. 2010. Advance) (iz							
Field St				-							
	Assesment		_)	0.00	0.00					
Others		R		1	30.00	30.00					
Final E		ĸ			40.00	40.00					
	/ork Load	0	10.0	00		180.00					
	ork load/ 30 hr	U				6.00					
	Credit of the Course	4	60.	00		6.00					
Final E	Xam										
Total		2		0.00							
	ution of Term (Year) Learning Activitie s Grade	es to	40.	.00							
Contrib	ution of Final Exam to Success Grade	Э	60.	60.00							
Total				100.00							
Measur Course	•	sed in the		For evaluation, a final exam is held together with homework and relative evaluation is applied.							
24	ECTS / 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	4	2	3	2	3	2	0	0	0	0	0	0	0	0	0
ÖK2	5	4	2	3	2	3	2	0	0	0	0	0	0	0	0	0
ÖK3	5	4	2	3	2	3	2	0	0	0	0	0	0	0	0	0
ÖK4	5	4	2	3	2	3	2	0	0	0	0	0	0	0	0	0
ÖK5	5	4	2	3	2	3	2	0	0	0	0	0	0	0	0	0
ÖK6	5	4	2	3	2	3	2	0	0	0	0	0	0	0	0	0
ÖK7	5	4	2	3	2	3	2	0	0	0	0	0	0	0	0	0
		l	_O: L	earr	ning (Dbjed	tive	s P	Q: P	rogra	ım Qu	alifica	tions	5		
Contrib ution Level:	n			2 low		3 Medium			4 High			5 Very High				