

JAM, MARMALADE AND JELLY TECHNOLOGY

1	Course Title:	JAM, MARMALADE AND JELLY TECHNOLOGY
2	Course Code:	GSD4239-S
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	7
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	English
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. CANAN ECE TAMER
15	Course Lecturers:	Doç. Dr. Gülşah Özcan Sınır
16	Contact information of the Course Coordinator:	Bursa Uludag University Faculty of Agriculture Department of Food Engineering 16059 Görükle/Bursa Phone: 0224 2941501 Fax: 0224 2941402 etamer@uludag.edu.tr
17	Website:	
18	Objective of the Course:	<ul style="list-style-type: none"> • To give information about raw materials and equipments used in jam, marmalade and jelly production. • To teach processing technology of jam, marmalade and jelly • To give information about quality control in processing steps of jam, marmalade and jelly industry • To educate the student as a qualified food engineer in this area.
19	Contribution of the Course to Professional Development:	Students taking this course will learn about jam, marmalade and jelly production technologies in detail.
20	Learning Outcomes:	
	1	The students will be able to: <ul style="list-style-type: none"> • Know the properties of the raw materials used for jam-marmalade and jelly production
	2	The students will be able to: <ul style="list-style-type: none"> • Explain jam, jelly and marmalade production methods.
	3	The students will be able to: <ul style="list-style-type: none"> • Know the properties of the equipments used for jam-marmalade and jelly production
	4	The students will be able to: <ul style="list-style-type: none"> • Understand the scope of the material balances used for preparation of recipes.
	5	The students will be able to: <ul style="list-style-type: none"> • Understand the production errors.
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21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	Materials used for jam, marmalade and jelly production.			
2	Preparation of jam, marmalade and jelly materials.			
3	Equipments used for processing.			
4	Material balances for preparation of repices.			
5	Case study			
6	Evaporation techniques.			
7	Cooling			
8	Packaging			
9	Review and consolidation of previous topics			
10	Technical visit			
11	Quality control of the products			
12	Production errors			
13	Diabetic jam production			
14	Similar products for diabetics			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		İşleme Teknolojisi -1, Ulaştırma Fak. Ders Notları No: 73. Bölge 102 c	2.00	2.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		Kılıç, O., Başoğlu, F., Çopur, O.U. 1997. Meyve ve Sebze İşleme Teknolojisi -2, Uludağ Ziraat Fak. Ders Notları No: 74.	14.00	14.00
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		Teknolojisi Derneği Yayınları No: 24 .Ankara, 328 s.	10.00	10.00
Others		0	0.00	0.00
Final Exams		Teknolojisi ve Analiz Metodları. T.C. Gıda, Tarım ve Hayvancılık Bakanlığı Gıda İleri Genel Müdürlüğü, Avyıldız	40.00	40.00
Total Work Load				92.00
Total work load/ 30 hr				3.07
ECTS Credit of the Course				3.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Midterm Exam		1	40.00	
Quiz		0	0.00	
Home work-project		0	0.00	
Final Exam		1	60.00	
Total		2	100.00	
Contribution of Term (Year) Learning Activities to Success Grade		40.00		
Contribution of Final Exam to Success Grade		60.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		For evaluation, a final exam is held together with midterm exam 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	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	4	4	5	3	3	4	4	4	4	4	0	0	0	0	0
ÖK2	5	4	5	5	4	3	4	4	4	5	4	0	0	0	0	0
ÖK3	5	4	5	5	4	4	4	4	4	5	5	0	0	0	0	0
ÖK4	5	5	4	5	4	3	3	4	4	4	5	0	0	0	0	0
ÖK5	4	5	4	4	5	3	3	4	4	4	5	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			