	FRUIT WINE S	CIEN	CE AND TECHNOLOGY								
1	Course Title:	FRUIT V	FRUIT WINE SCIENCE AND TECHNOLOGY								
2	Course Code:	GMB532	9								
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):	2.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	2									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to f									
14	Course Coordinator:	Prof. Dr.	OZAN GÜRBÜZ								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Ziraat Fakültesi Gıda Mühendisliği Bölümü 16059 Görükle/Bursa Tel: 0224 2941500 Fax: 0224 2941402 e-posta: ozang@uludag.edu.tr									
17	Website:										
18	Objective of the Course:	The aim of this course is to provide students with information about the production of fruit wines and its importance in the food industry, wine companies, problems to be encountered and solutions.									
19	Contribution of the Course to Professional Development:	The course builds on students' knowledge in the field of fruit wine industry.									
20	Learning Outcomes:										
		1	Wine production is learned in detail.								
		2	The student has information about the importance of wine economy in the world and in our country.								
		3	The student will have information about the characteristics of the wine company and the tools and equipment used in the wine company.								
		4	The student will learn about the latest developments in wine technology.								
		5	The student will have information about wine analysis methods.								
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		7									
		8									
		9									
		10									
21	Course Content:	<u> </u>	ourse Content:								
Week	Theoretical		Practice								
	Meeting the students and explaining content of the lesson	the	Fruit juice analysis								

2	\\/inco	row	mata	rial					Cr.	uit iuioa	analy	cic								
2											Fruit juice analysis									
-	_	Parts of the wine company									Wine analysis									
4 5		Mechanical processes applied to grapes									Wine analysis									
	_		·						_	Wine Yeast Isolation and Identification										
6	_					grain fe				Wine Yeast Isolation and Identification										
7						ntation, e pulp	sepa	raung	VVI	Wine Bacteria Identification and Wine Defects										
8	Break and fe					lactic fe	ermen	itation	Wi	Wine Bacteria Identification and Wine Defects										
9	Mellov	wing,	clari	ifying	and p	ackagi	ng ste	eps	Ma	Making Cider										
10	Red w	/ine	orodu	uction	proce	ess			Ma	Making Cider										
11	White	wine	e pro	ductio	n pro	cess			An	alysis	of Win	e Arom	а							
12	Luxur	y wir	ne pro	oducti	on pro	ocess			An	alysis	of Win	e Arom	а							
13	Disea	ses a	and e	errors	in win	e			Ins	trume	ntal An	alysis o	of Phen	olic Co	mpound	ds				
14	Fruit v	vine	prod	uction	proce	ess			Ins	trume	ntal An	alysis c	of Phen	olic Co	mpound	ds				
Activi										Printing House Vine R.P., Harkness E.M., Linton S.J., Wine Making, 2003 Kluwer Academic NY. • Kılıç, O, 1996, Alcoholic Power Technology, U.Ü Basımevi. • Aktan, N., Kalkan, H., 2000. Wine Technology Kavaklıdere Education Publications No: 4. Ankara Number Duration (hour) Total Work Load (hour)										
Theoretical									4	.,		2 00	2.00 28.00							
Theoretical 23 Assesment Practicals/Labs								_							28.00					
	Fracticals/Labs									14				2.00			14.00			
Home										1							50.00			
Project										0.00				0.00			0.00			
Field S	<u> </u>	•								)						0.00				
	-xam m exan	າຣ					1		150	00						0.00				
Others		-								0				0.00			0.00			
	nters ontribution of Term (Year) Learning Activities to Incress Grade									50,00				55.00			55.00			
	Nork Lo														175.00					
Contra Total v	al work load/ 30 hr										50.00				5.83					
ECTS	vork loa	nd/ 3	<u>ő hr</u>												;	J.03				
	Credit of									• • • •						6.00				
Measu Course	Credit our	of the	e Cou	urse				d in the	e Foi doi		ation;	a home	work is	given	(		am is			
	Credit o rement	of the and	e Cou Eval	urse luatior	n Tecł		s Use	d in the			ation;	a home	work is	given	(	6.00	am is			
Course	Credit o urement e ECT:	of the and	e Cou Eval	urse luatior RK L	n Tecl OAD	nnique: <b>TAB</b>	s Use	- LEA	dor ARN	ne. ING (		OME			(	6.00 final ex	am is			
Course 24	Credit of urement E ECTS	of the and <b>S / N</b>	e Cou Eval NOF	urse luatior RK L	n Tech OAD TRIB	TAB UTIO	s Use LE N OI	- LEA		ING (LIFIC		OME	S TO I		and the	6.00 final ex	am is			
Course 24 25	Credit of urement ECT:	of the and S / V	e Cou Eval WOF ( 2Q2	urse luatior RK L CON	n Tech OAD TRIB PQ4	TAB SUTIO PQ5	s Use LE N OI PQ6	F LEA Q PQ7	dor ARN UA	ING ( LIFIC PQ9	OUTC ATIO PQ1 0	OME NS PQ11	S TO I PQ12	PROG	and the	6.00 final ex ME PQ15	PQ16			
Course 24 25 ÖK1	Credit of urement ECTS	of the and S / V	e Cou Eval NOF ( PQ2	urse luatior RKL CON PQ3 5	DAD TRIB	TAB SUTIO PQ5 3	s User LE N OI PQ6	F LEA Q PQ7 3	doi ARN UA PQ8 3	ING ( LIFIC PQ9	DUTC ATIO PQ1 0 3	<b>OME:</b> <b>NS</b> PQ11 0	<b>S TO I</b> <b>PQ12</b> 0	PQ1 3 0	and the	6.00 final ex ME PQ15 0	<b>PQ16</b> 0			
Course 24 25	Credit of urement ECT:	of the and S / V	e Cou Eval NOF ( PQ2	urse luatior RK L CON	n Tech OAD TRIB PQ4	TAB SUTIO PQ5	s Use LE N OI PQ6	F LEA Q PQ7 3	dor ARN UA	ING ( LIFIC PQ9	OUTC ATIO PQ1 0	OME NS PQ11	S TO I PQ12	PROG	and the	6.00 final ex ME PQ15	PQ16			

ÖK4	4	3	5	3	3	2	3	3	1	3	0	0	0	0	0	0
ÖK5	4	3	5		3			3	1	3	0	0		0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 Iow		3	Medi	um	4 High			5 Very High				