CARBONATED BEVERAGE TECHNOLOGY										
1	Course Title:	CARBO	BONATED BEVERAGE TECHNOLOGY							
2	Course Code:	GIDS211								
3	Type of Course:	Optional								
4	Level of Course:	Short Cycle								
5	Year of Study:	2								
6	Semester:	3								
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:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Öğr.Gör. ÇİĞDEM GÜCEYÜ								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	emineaydn@gmail.com 0224 861 34 24 Keles Meslek Yüksekokulu Cuma Mahallesi Mehmet Akif Orhan Caddesi No:37 16740 Keles/BURSA								
17	Website:									
18	Objective of the Course:	The aim of this course is; to make students gain the information about raw materials in the production of carbonated beverage, production technology, equipment used in prosess and quality characteristics of carbonated beverages and mineral waters.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Use the knowledge and skills to produce the carbonated beverage and mineral waters in accordance with the Turkish Food Codex and regulations.							
		2	Can understand the characteristics and operating conditions of the raw materials used in the production of carbonated beverages.							
		3	According to the demand and development of the sector to do R&D activities.							
		4	Stages of the process to implement production of carbonated beverages.							
		5	Can use devices that are used in the process.							
		6	Can prepare the postmix and premix in beverage production.							
		7	Can know and prevent quality defects of carbonated beverages production.							
		8	Able to analyze the quality control measure of quality of carbonated beverages.							
		9	Can understand the positive and negative effects of carbonated beverages on human health.							
		10								

21	Course Content:										
	Course Content:										
Week	Theoretical		Pr	actice							
1	Historical development of production carbonated beverages.	of									
2	Legislation relating to carbonated bey and mineral waters.	verages									
3	Properties of water using in the proce water-softening process, chemical applications, filtration application.	ess,									
4	Water chlorination, active carbon filte ultraviolet disinfection, ozanation, rev osmosis, ultrafiltration.	er, verse									
5	Raw materials of carbonated beverages sugar and artificial sweetener, fruit ju concentrate	ges, ice									
6	Properties of carbondioxyde, acid reg and protective additives.	gulater									
7	Properties of substances of essence aroma, colouring agent, emulsifiers a gums.	type ind									
8	Repeating course and midterm exam	1									
9	Stage of process, prepare the syrup, deteration, filtration and mixing, appli of postmix and premix.	cations									
Activit	:es			Number	Duration (hour)	Total Work Load (hour)					
Theore	beverages.			14	2.00	28.00					
Practic	als/Labs			0	0.00	0.00					
Self stu	Health effect of carbonated beverage dy and preperation Imineral waters.	es and		14	1.00	14.00					
Homew	vorks			0	0.00	0.00					
Project	Materials		F	gen, D. P., Ashurst, P armulation and Manufa	cfure ISNB 97814	05134354					
Field S	tudies		_	0	0.00	0.00					
Midtern	n exams		W	1 oodroof, J.G., Beverau	24.00 tes: Carbonated &	24.00 Noncarbonated					
Others				0	0.00	0.00					
	kams		Iк	lic. O., Basoălu. F., Co	ppur. Ö. U Mevve	ve Sebze					
Total w	ork load/ 20 br		+			3.00					
FCTS	Credit of the Course					3.00					
TEIXINE		R	┍┅	LIGHT		0.00					
Midtern	n Exam	1	40.00								
Quiz		0	0.00								
Home v	work-project	0	0.00								
Final E	xam	1	60.00								
Total		2	100.00								
Contrib Succes	oution of Term (Year) Learning Activitiess Grade	es to	40.00								
Contrib	oution of Final Exam to Success Grade	9	60.00								
Total			100.00								
Measu Course	rement and Evaluation Techniques Us	sed in the									

24 EC	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	3	5	2	1	1	1	2	1	5	2	4	4	0	0	0	0
ÖK2	3	3	1	1	1	4	2	1	1	1	1	1	0	0	0	0
ÖK3	5	3	5	3	5	4	4	4	3	2	4	1	0	0	0	0
ÖK4	1	4	1	2	1	4	3	1	1	1	1	1	0	0	0	0
ÖK5	2	2	1	4	3	1	5	3	1	1	2	1	0	0	0	0
ÖK6	1	3	1	3	2	3	3	1	1	1	2	1	0	0	0	0
ÖK7	2	4	4	1	1	3	2	4	2	2	3	1	0	0	0	0
ÖK8	2	3	5	1	1	1	5	5	3	2	3	1	0	0	0	0
ÖK9	3	4	1	1	1	1	1	2	2	1	4	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low			3 Medium		4 High		5 Very High						