LABORATORY EQUIPMANTS											
1	Course Title:	LABORATORY EQUIPMANTS									
2	Course Code:	TLTZ101									
3	Type of Course:	Compuls	sory								
4	Level of Course:	Short Cy	rcle								
5	Year of Study:	1									
6	Semester:	1									
7	ECTS Credits Allocated:	6.00									
8	Theoretical (hour/week):	2.00									
9	Practice (hour/week):	4.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	No									
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	face								
14	Course Coordinator:	Doç. Dr. ELİF ERTÜRK BAKIR									
15	Course Lecturers:	-									
16	Contact information of the Course Coordinator:	Doç.Dr. Elif ERTÜRK Bursa Uludağ Üniversitesi, Sağlık Hizmetleri MYO, Görükle Kampüsü, Nilüfer/BURSA									
17	Website:										
18	Objective of the Course:	Teach the information and skills to use, maintain and clean the laboratory gadgets									
19	Contribution of the Course to Professional Development:	Usage of laboratory equipment is learned									
20	Learning Outcomes:										
		1 Prepare, use and clean the tools for solutions									
		2	Make incubation								
		3	Make sterilization								
		4	Gain laboratory water								
		5	Precipitate liquids								
		6	Screen the objects impossible to see with eye with a microscope								
		7	Assign matter amount by using light sources								
		8	Assign matter amount by using automatic analyser								
		9	Assign the amounts of special molecules								
	10 Preserve texture, blood, serum etc.										
21	Course Content:										
		Co	ourse Content:								
Week	Theoretical Practice										

1	Glas trans glass	ass and plastic materials, to make material nsfer with the aid of a micropipette and the ass pipette. To weigh article.									Introduction of glass and materials are used in the biochemistry laboratory, material transfer, weighing scales with the application materials										
2	Meth the p	thods of mixing the solution, cleaning of PH meter, glass and plastic materials,									Concentration calculation, the sample solution preparation, pH measurement and making titration										
3	Incul	ubation methods									Introduction of materials used at the microbiology laboratory and incubation methods application. materials										
4	Steri	erilization methods									Sterilization methods application										
5	To o	btain	labor	atory	water				Us equ	Using distilled water and deiyonize water apparatus and equipment											
6	Prec	ipitat	ing flu	uids by	/ mea	ns of c	entrif	uges	Ce	Centrifugation of various liquids											
7	Tto e meth	examine invisible objects-microscopic									Examination of the various preparations at microscope										
8	Spec meth	ectrophotometric and nephelometric thods									Spectrophotometric determination of the amount of matter and the standard curve graph plotting										
9	Turb	bidimetric and fluorometric methods									ation c	of amou	nt of su	bstanc	e at ne	efelomet	er				
10	Flam spec	me photometry and atomic absorption ectrometry methods									Determination of amount of substance at turbidimeter										
11	Auto hema	utomatic Autoanalyzers (biochemistry, and ematology)									Using biochemistry and hematology autoanalyser and sample application										
12	Chro	romatographic methods									Determination of the amount of substances with HPLC										
13	Elect	troph	oretic	meth	ods				Ар	Application of serum protein electrophoresis											
14	Tissu	ssue, blood and serum storage methods								Storage of blood , serum and urine samples in the refrigator or deep freezer											
Activites							1	Number				ition (hour)	Total Work Load (hour)							
Theoretical								31	b. Sat Aavel	inuers R. Clin	compa ical Lat		y. 1995. Pratory Medicine: Cimical								
Practicals/Labs								1	4		Total Eak	4.00	4.00 56.00								
Self study and preperation								T 1	4			5.00	5.00			70.00					
Homeworks									0				0.00			0.00					
PERMCLEARNING ACTIVITIES NUMBE								WE	GHT			0.00	0.00			0.00					
Field Studies								0						0.00							
Midterm exams															12.00						
Others								C	0						0.00						
Final E	Final Exams														14.00						
Total Work Load								60	00					192.00							
Total work load/30 hr														6.00							
ECTS Credit of the Course									6.00												
Contribution of Final Exam to Success Grade							60.	60.00													
Total							10	100.00													
Measurement and Evaluation Techniques Used in the T Course								e The mu	There is a midterm and a final exam in the form of a multiple choice test.												
24 ECTS / WORK LOAD TABLE																					
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																					
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16				
ÖK1	5	5	1	1	5	1	1	1	1	1	1	1	1	0	0	0	0				

ÖK2	1	1	5	1	1	5	1	1	1	1	1	1	0	0	0	0
ÖK3	5	1	5	1	1	5	1	1	1	1	1	1	0	0	0	0
ÖK4	5	1	1	1	1	5	1	1	1	1	1	1	0	0	0	0
ÖK5	5	1	5	1	1	5	1	1	1	1	1	1	0	0	0	0
ÖK6	5	1	1	5	1	5	1	1	1	1	1	1	0	0	0	0
ÖK7	5	1	1	5	1	5	1	1	1	1	1	1	0	0	0	0
ÖK8	5	1	1	5	1	5	1	1	1	1	1	1	0	0	0	0
ÖK9	5	1	1	5	1	5	1	1	1	1	1	1	0	0	0	0
ÖK10	5	5	1	1	1	1	1	1	1	1	1	1	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib1 very lowutionLevel:		2 low			3	3 Medium			4 High			5 Very High				