LABORATORY CHEMISTRY

1	Course Title:	LABORATORY CHEMISTRY	
2	Course Code:	TLTZ107	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	3.00	
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:	Doç. Dr. ELİF ERTÜRK BAKIR	
15	Course Lecturers:	-	
16	Contact information of the Course Coordinator:	Dr.Öğr.Üyesi Elif ERTÜRK Bursa Uludağ Üniversitesi, Sağlık Hizmetleri MYO, Görükle Kampüsü, Nilüfer/BURSA	
17	Website:		
18	Objective of the Course:	To obtain knowledge and skills in the laboratory for preparation solutions	
19	Contribution of the Course to Professional Development:	Students will have the current theoretical and applied knowledge required by the practice in the field.	
20	Learning Outcomes:		
		1	To prepare % solutions
		2	To prepare molar solutions
		3	To prepare normal solutions
		4	To prepare other solutions
		5	To learn the concepts of Acid and Base
		6	Learning buffer solutions
		7	
		8	
		9	
		10	

21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Solid / liquid according to (w / v) % solution	
2	Solid / liquid according to (w / v) % solution	
3	Liquid / liquid according to (v /v) solution	

4	Liquid / liquid according to (v /v) solution	
5	The molar solution of a solid substance	
6	The molar solution of a solid substance	
7	The molar solution of a liquid substance	
8	The molar solution of a liquid substance	
9	The normal solution of a liquid substance	
10	The normal solution of a liquid substance	
11	Osmolar solutions	
12	Acids and bases	
13	Acids and bases	
14	Buffer solution	

22	Textbooks, References and/or Other Materials:	1-Anderson SC, Cockayne S. Clinical Chemistry; Concepts and Applications. W.B. Saunders Company. 1993. 2- Tietz NW. Guide to Laboratory Tests. Third Edition. W.B. Saunders Company. 1995. 3- Ravel R. Clinical Laboratory Medicine; Clinical Application of Laboratory Data. Sixth Edition. Mosby. 1995
23	Assesment	

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		Student participation in the course, midterm and final exams; It includes measurement and evaluation criteria.

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	1.00	14.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	15.00	15.00
Others	1	14.00	14.00
Final Exams	1	20.00	20.00
Total Work Load			106.00
Total work load/ 30 hr			3.03
ECTS Credit of the Course			3.00

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	2	2	3	3	3	2	3	1	2	2	3	2	0	0	0	0
ÖK2	3	3	2	2	4	4	2	2	3	3	2	2	0	0	0	0
ÖK3	1	1	2	2	3	2	2	3	2	2	3	2	0	0	0	0
ÖK4	2	2	2	3	3	3	1	2	1	2	1	2	0	0	0	0
ÖK5	3	2	3	2	2	3	3	2	2	2	1	1	0	0	0	0
ÖK6	1	2	1	2	2	1	3	2	2	3	2	2	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**