BASIC MOLECULER BIOLOGIC TECHNIQUES										
1	Course Title:	BASIC N	OLECULER BIOLOGIC TECHNIQUES							
2	Course Code:	TLTZ209								
3	Type of Course:	Compulsory								
4	Level of Course:	Short Cycle								
5	Year of Study:	2								
6	Semester:	3								
7	ECTS Credits Allocated:	4.00								
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. Dr. Elif ERTÜRK								
15	Course Lecturers:	-								
16	Contact information of the Course	Öğr.Gör.Dr. Elif ERTÜRK								
	Coordinator:	Bursa Uludağ Üniversitesi Sağlık Hizmetleri Meslek Yüksekokulu 16059 Görükle/BURSA 0224 29 42 496								
17	Website:									
18	Objective of the Course:	Teaching basic principles of molecular biology techniques to students.								
19	Contribution of the Course to Professional Development:	Students will be provided with knowledge, skills and safe working principles about current molecular methods in molecular biology, molecular genetics laboratories.								
20	Learning Outcomes:									
		1	At the end of this lesson, the student; Will be able to explain the usage reasons of basic molecular biological methods.							
		Will be able to Explain What are the Basic Molecula Biological Methods and Their Stages to be Used.								
		3	Will be able to learn experimental design of problems based on molecular biology.							
		4	Will be able to follow the developments in molecular biology techniques by following the new information in the literature.							
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Course Content:								
Week	Theoretical Practice									

1	General instrument introduction and										
•	molecular biology laboratory rules										
2	DNA isolation and analysis										
3	RNA isolation and analysis										
4	Spectrophotometric methods										
5	Calculation of isolated DNA / RNA / I concentrations	Protein									
6	Agarose gel electrophoresis										
7	Polymerase chain reaction (PCR)										
8	Agarose gel electrophoresis after polichain reaction (PCR)	lymerase									
9	RFLP method										
10	Isolation and purification of proteins										
11	Determination of protein concentration electrophoretic analysis	on and									
12	Basic principles of enzymatic analysi methods for determining enzyme act										
13	Cell culture										
14	Cell culture methods										
22 Activi	Textbooks, References and/or Other Materials:		1. Methods Used in Molecular Biology, Prof.Dr. Güler Temizkan, Prof. Dr. Nazlı Arda, Nobel Medical Bookstores, 2008 Number Duration (hour) Total Work								
ACUVI	ies		Number	Duration (nour)	Load (hour)						
Theore	etical		Coluirse (Walt Re	am, Kataonne G. Field), 1	929. 00						
	cals/Labs	·	0	0.00	0.00						
SERV	LEARNING ACTIVITIES	NUMBE	WEIGHT	0.00	0.00						
Homev		IK I	15	2.00	30.00						
Braject	ts	0	0.00	2.00	32.00						
Field S	Studies	1	0	0.00	0.00						
Midter	m exams	1	60 ¹ .00	15.00	15.00						
Others			0	0.00	0.00						
Einal	xams outlon of Term (Year) Learning Activition	es to	40.00	15.00	15.00						
	Vork Load				120.00						
Cotatriu	vorioloadFittahExam to Success Grade	е	60.00		4.00						
ECTS	Credit of the Course				4.00						
Measu Course			Ensuring student participation in the course with homework and projects related to the subject contents								
24	24 ECTS / WORK LOAD TABLE										
25	5 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME										

QUALIFICATIONS PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3

ÖK4	1	3	3	3	3	3	4	4	3	1	3	3	0	0	0	0
Contrib ution Level:	1 \	l ery l	-	1	ing C	bjec	ctives PQ: Pr		rogram Qualifica 4 High		tions 5 Very High					