BIOSAFETY PRINCIPLES IN LABORATORY APPLICATIONS

1	Course Title:	BIOSAFETY PRINCIPLES IN LABORATORY APPLICATIONS
2	Course Code:	TTB5019
3	Type of Course:	Compulsory
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	2.00
8	Theoretical (hour/week):	1.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	English
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Gülşah Çeçener
15	Course Lecturers:	Prof. Dr. Alis ÖZÇAKIR Doç. Dr. Ayşe Melda PAYASLIOĞLU
16	Contact information of the Course Coordinator:	Prof. Dr. Gülşah ÇEÇENER gcecener@uludag.edu.tr 0224 295 41 62 ULUDAĞ ÜNİVERSİTESİ TIP FAKÜLTESİ TIBBİ BİYOLOJİ ANABİLİM DALI
17	Website:	
18	Objective of the Course:	Importance of biosafety in laboratory studies and transfer of necessary rules
19	Contribution of the Course to Professional Development:	Ensuring that the laboratory works in accordance with biosafety rules
20	Learning Outcomes:	
	1	To learn the basic principles of biosecurity
	2	Working within the biosafety rules in laboratory applications
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	What is biosecurity? What are the biological risk factors?	
2	Biological risk groups and biosafety levels: identification and assessment	
3	Hygiene and personal protection in biological risk factors	

4	Training and informing employees against biological risk factors	
5	Rules for safe working with blood material	
6	Rules for safe working with genetic material	
7	Contamination, decontamination and disinfection	
8	Classification of chemicals and safe working practices	
9	Chemical risk factors and factors that determine the harm of chemicals	
10	Risk assessment and risk prevention in chemicals	
11	Waste classification and waste management	
12	Rules to be considered when working with chemicals in molecular biology and genetics laboratories	
13	Accidents and first aid	
14	General evaluation	

22	Textbooks, References and/or Other Materials:	LABORATORY SAFETY GUIDE BASIC BIOSAFETY RULES FOR LABORATORY WORKERS LABORATORY SAFETY HANDBOOK

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	0	0.00	0.00
Self Study and Preparation	14	3.00	42.00
Homeworks	2	2.00	4.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Final Exam	1	100.00	
Others	1	4.00	4.00
Final Exams	1	2.00	2.00
Total Work Load			66.00
Total work load/ 30 hr			2.20
ECTS Credit of the Course			2.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00
Home work project	0	0.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to		0.00
Contribution of Final Exam to Success Grade		100.00
Total		100.00

Measurement and Evaluation Techniques Used in the Course	Semester final exam

24 ECTS / WORK LOAD TABLE

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	4	3	0	4	5	0	0	2	0	5	0	0	0	0	0
ÖK2	3	5	3	0	2	4	2	4	0	0	0	0	4	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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