BIOSAFETY PRINCIPLES IN LABORATORY APPLICATIONS

1	Course Title:	BIOSAFETY PRINCIPLES IN LABORATORY APPLICATIONS	
2	Course Code:	SAB6009	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	2.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. Tuncay İLHAN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Mail:tilhan@ uludag.edu.tr Uludağ Ünv. Veteriner Fak. Histoloji Embriyoloji Anabilim Dalı	
17	Website:		
18	Objective of the Course:	Teaching the importance of biosafety in laboratory studies and the things to be considered while working.	
19	Contribution of the Course to Professional Development:	Gaining the basic principles of working more efficiently and safely in laboratory studies by learning of biosafety.	
20	Learning Outcomes:		
		1	To be able to comprehend what biosecurity is.
		2	Learning the general laboratory rules.
		3	Learning what to do for laboratory safety.
		4	To be able to comprehend the things to be considered for personal safety in the laboratory.
		5	Learning biological risk groups and biosafety levels.
		6	To be able to relate the risks of working with chemicals in the laboratory and ways to reduce the risk.
		7	To be able to comprehend what should be considered in the choice and use of biosafety cabinets.
		8	To be able to learn the identification and safe disposal of wastes that will arise in the laboratory.
		9	To be able to apply first aid in laboratory accidents.
		10	
21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	What is biosafety?	
2	Safety in the lab/Personal safety.	
3	What are the biological risk factors?	
4	Biological risk groups and biosafety levels.	

5	Hygiene and personal protection in biological risk factors.	
6	Training and informing employees about biological risk factors.	
7	Rules for safe working with biological material.	
8	Contamination, decontamination and disinfection.	
9	Classification of chemicals and safe working practices.	
10	Chemical risk factors and factors that determine the harm of chemicals.	
11	Risk assessment and risk prevention in chemicals.	
12	Biosafety cabins.	
13	Classification of wastes and waste management.	
14	Laboratuary accidents and first aid.	

22	Textbooks, References and/or Other Materials:	Laboratory biosafety manual, Third Edition, World Health Organization. ISBN 92 4 154650 6. 2004. Kimyasalların Güvenli Depolanması Rehberi. ş Sağlığı ve Güvenliği Araştırma ve Geliştirme Enstitüsü Başkanlığı. ISBN 978-975-455-248-5

24 ECTS / WORK LOAD TABLE

Activites		Number	Duration (hour)	Total Work Load (hour)
Midterm Exam	0	0.00		
Theoretical	14		2.00	28.00
Quiz	0	0.00		
Practicals/Labs		0	0.00	0.00
Home work-project	0	0.00		
Self study and preperation	14		2.00	28.00
Final Exam	1	100.00		
Homeworks		0	0.00	0.00
Total	1	100.00		
Projects		0	0.00	0.00
Contribution of Term (Year) Learning Activities to		0.00		
Field Studies		0	0.00	0.00
Midterm exams		0	0.00	0.00
Contribution of Final Exam to Success Grade		100.00		
Others		0	0.00	0.00
Total		100.00		
Final Exams		1	2.00	2.00
Measurement and Evaluation Techniques Used in the				
Total Work Load				58.00
Total work load/ 30 hr				1.93
ECTS Credit of the Course				2.00

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	3	4	4	5	5	4	5	4	4	0	0	0	0	0	0	0
ÖK2	4	5	5	4	3	4	4	5	5	0	0	0	0	0	0	0
ÖK3	5	4	5	3	4	5	4	5	5	0	0	0	0	0	0	0
ÖK4	4	5	5	4	4	3	5	5	4	0	0	0	0	0	0	0

ÖK5	5	4	4	4	5	4	5	5	4	0	0	0	0	0	0	0
ÖK6	4	5	5	5	4	4	4	4	5	0	0	0	0	0	0	0
ÖK7	5	5	4	4	4	5	3	5	5	0	0	0	0	0	0	0
ÖK8	5	4	5	4	3	5	4	4	5	0	0	0	0	0	0	0
ÖK9	5	4	3	4	4	5	5	4	4	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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