

GENERAL CONCEPTS IN BIOTECHNOLOGY

1	Course Title:	GENERAL CONCEPTS IN BIOTECHNOLOGY	
2	Course Code:	VET1514	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	3.00	
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:	Prof. Dr. ÖZDEN ÇOBANOĞLU	
15	Course Lecturers:	Doç. Dr. Özden ÇOBANOĞLU	
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniv. Zootekni ve Hayvan Besleme Bölümü / Genetik Anabilim Dalı, Görükle Kampüsü Nilüfer/BURSA E-mail: ocobanoglu@uludag.edu.tr Tel: 0 224 294 1241	
17	Website:	http://www.veteriner.uludag.edu.tr	
18	Objective of the Course:	<p>This course covers definition, scope, usage and history of biotechnology to students; Giving information about traditional and modern biotechnology.</p> <p>Biotechnology related fields, economic importance, situation in our country and in the world, application examples and opportunities in our country.</p>	
19	Contribution of the Course to Professional Development:	This course will provide students with the necessary information about the basic concepts of biotechnology and its applications during their professional development.	
20	Learning Outcomes:		
		1	To explain the basic concepts of biotechnology
		2	To have general information about biotechnology usage areas and applications.
		3	To have knowledge about biotechnological applications in the field of plant, animal, and medicine and to make observations and experiments on the subject when it is necessary.
		4	To distinguish between modern biotechnology and traditional biotechnology.
		5	To be able to search about biotechnology and to transfer the information obtained orally or in writing.
		6	1.8 Be able to review and evaluate literature and presentations critically.

		7	1.10 Use their professional capabilities to contribute to the advancement of veterinary knowledge and One Health concept, in order to improve animal health and welfare, the quality of animal care and veterinary public health.		
		8	1.13 Demonstrate an ability of lifelong learning and a commitment to learning and professional development. This includes recording and reflecting on professional experience and taking measures to improve performance and competence.		
		9	2.11 Principles of effective interpersonal interaction, including communication, leadership, management and team working.		
		10			
21	Course Content:				
	Course Content:				
Week	Theoretical		Practice		
1	What is Biotechnology? History of Biotechnology and Scope of Biotechnology Definitions of Biotechnology; Traditional Biotechnology Applications				
2	Definitions of Biotechnology; Traditional Biotechnology Applications				
Activities			Number	Duration (hour)	Total Work Load (hour)
5	Theoretical Recombinant DNA Technology		14	2.00	28.00
Practicals/Labs			0	0.00	0.00
7	Self study and preparation Bioinformatics, DNA Fingerprint Technology		1	14.00	14.00
Homeworks			0	0.00	0.00
9	Projects Plant Biotechnology		0	0.00	0.00
Field Studies			0	0.00	0.00
11	Midterm exams and recitation mapping Medical Biotechnology, Forensic		1	14.00	14.00
Others			2	7.00	14.00
12	Final Exam Genetic Modified Organisms, Gene Therapy		1	20.00	20.00
Total Work Load					90.00
Total work load/ 30 hr					3.00
14					
ECTS Credit of the Course					3.00

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