	GENERAL CO	NCEP	TS IN BIOTECHNOLOGY					
1	Course Title:	GENER	GENERAL CONCEPTS IN BIOTECHNOLOGY					
2	Course Code:	VET1514						
3	Type of Course:	Optional						
4	Level of Course:	First Cyc	First Cycle					
5	Year of Study:	1	1					
6	Semester:	2	2					
7	ECTS Credits Allocated:	3.00	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.	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:	This course covers definition, scope, usage and history of biotechnology to students; Giving information about traditional and modern biotechnology. Biotechnology related fields, economic importance, situation in our country and in the world, application examples and opportunities in our country.						
19	Contribution of the Course to Professional Development:	about the	rse will provide students with the necessary information e basic concepts of biotechnology and its applications neir 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.					
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.					
		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:							
		Co	ourse Content:					
Week	Theoretical		Practice					
1	What is Biotechnology? History of Biotechnology and Scope of Biotech Definitions of Biotechnology; Traditio Biotechnology Applications							
2	Definitions of Biotechnology; Tradition	nal						
Activites			Number	Duration (hour)	Total Work Load (hour)			
Th ē ore	Recombinant DNA Technology		14	2.00	28.00			
Practica	als/Labs		0	0.00	0.00			
Self stu	Bioinformatics DNA Fingerprint Tecl	nnology	1	14.00	14.00			
Homew			0	0.00	0.00			
Proect	Plant Biotechnology		0	0.00	0.00			
Field St	tudies		0	0 0.00 0.00				
Midtern	Medical Biotechnology. Forensic		1	1 14.00 14.00				
Others			2	7.00	14.00			
Fif121 E	্রিল্য etic Modified Organisms, Gene	Therapy	1	20.00	20.00			
	/ork Load				90.00			
Total w	muustry ork load/ 30 hr Biotechnology Regulations, Effects o	of.			3.00			
	Credit of the Course				3.00			

22	Textbooks, References and/or Other Materials:	1. Türkiye'de Biyoteknoloji ve Toplumsal Kesimler / Profesyoneller Kentsel Tüketiciler Köylüler. Erbaş, H. ISBN: 978-975-482-773-6. Yayın Yeri. Ankara Yayın Evi: Ankara Üniversitesi Biyoteknoloi Enstitüsü Yayınları No.4. 2008. 2. Introduction to Biotechnology. Pathak, R. Atlantic Publishers & Distributors (P) Ltd. ISBN: 978-812-690-598-0, 2006. 3. Microbial Biotechnology Principles and Applications. Lee, Y.K. Edited by: National University of Singapore, Singapore. ISBN: 978-981-256-676-8, 2006. 4. Plant Biotechnology and Transgenic Plants. Edited by: Oksman-Caldentey K-M. and Barz W.H. CRC Press. ISBN: 978-082-470-794-1, 2002. 5. Biyoteknolojiye Giriş. Palladino M.A. and Thieman W.J. Çeviri: Tekeoğlu M. Palma Yayınları.
23	Assesment	
TERM LEARNING ACTIVITIES NURSE R		 WEIGHT

TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT				
Midterm Exam	1	30.00				
Quiz	0	0.00				
Home work-project	2	10.00				
Final Exam	1	60.00				
Total	4	100.00				
Contribution of Term (Year) Learning Activities Success Grade	es to	40.00				
Contribution of Final Exam to Success Grade)	60.00				
Total		100.00				
Measurement and Evaluation Techniques Us Course	sed in the	Exams of the course will be in the form of both classical and multiple choice questions.				

24 ECTS / WORK LOAD TABLE

25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	3	1	2	2	1	5	1	1	1	2	1	1	1	2	0	0
ÖK2	1	1	1	1	1	1	4	1	1	1	1	2	1	2	0	0
ÖK3	2	1	2	1	1	4	1	1	1	1	1	2	2	2	0	0
ÖK4	1	1	2	1	1	4	1	2	1	1	2	1	1	3	0	0
ÖK5	1	2	3	4	1	3	3	1	2	1	1	2	1	0	0	0
ÖK6	1	1	2	3	4	3	3	1	2	1	1	2	1	1	0	0
ÖK7	2	3	1	1	2	1	3	1	2	2	1	1	2	4	0	0
ÖK8	3	2	1	3	4	2	1	1	3	1	2	3	1	2	0	0
ÖK9	2	1	3	1	3	2	3	2	1	3	3	4	2	1	0	0
	LO: Learning Objectives PQ: Program Qualifications															

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