

MICROBIOLOGY

1	Course Title:	MICROBIOLOGY
2	Course Code:	BYL1210
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	2
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. MEHMET SARIMAHMUT
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	Doç. Dr. Mehmet SARIMAHMUT msarimahmut@uludag.edu.tr Tel: +90 224 2941753
17	Website:	
18	Objective of the Course:	This course aims to understand the biological characteristics, classification, metabolism, and genetic structure of microorganisms, addressing the impact of microbial ecosystems on human health and biotechnology. Additionally, it aims to provide students with experience through microbiological laboratory techniques and applications.
19	Contribution of the Course to Professional Development:	It provides a solid foundation in microbiology, effective problem analysis skills, and practical laboratory techniques. Through the delivery of both theoretical and practical topics, it enables students to contribute to related engineering challenges and make effective contributions in scientific fields.
20	Learning Outcomes:	
	1	Understanding the biological characteristics, classification, and metabolism of microorganisms, and evaluating the impact of microbial ecosystems on human health and the environment.
	2	Gaining the ability to apply microbiological laboratory techniques, including fundamental methods such as sterilization, microorganism inoculation, isolation, and analysis of biochemical activities.
	3	Analyzing the genetic structure of microorganisms and their role in modern biotechnology, and comprehending the applications of DNA technology and microbial genetics in health, environmental, and industrial fields.
	4	
	5	
	6	
	7	
	8	
	9	
	10	

ÖK2	2	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	4	0	0	3	0	0	0	0	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							