

BACTERIAL GENETICS

1	Course Title:	BACTERIAL GENETICS
2	Course Code:	TMK5009
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. HARUN AĞCA
15	Course Lecturers:	Yok
16	Contact information of the Course Coordinator:	harunagca@uludag.edu.tr
17	Website:	
18	Objective of the Course:	To learn genetic characteristics of organisms, genetic structures of bacteria, gene transfer mechanisms.
19	Contribution of the Course to Professional Development:	To learn bacterial genetics, antibacterial resistance mechanisms and resistance transmission
20	Learning Outcomes:	
	1	Learning the genetic mechanisms
	2	To learn DNA structure and properties
	3	To learn RNA structure and properties
	4	To learn gene transfer mechanisms
	5	To learn the transfer mechanisms of genes that cause antibacterial resistance in bacteria
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Genetic structure	
2	DNA structure and properties	
3	DNA structure and reproduction in bacteria	
4	RNA structure and properties	
5	DNA and RNA replication mechanisms	
6	Konjugation	
7	Transformation	

8	Bacterial fages	
9	Gene transfer mechanisms in bacteria	
10	Genetic differences in prokaryotes and eukaryotes	
11	Resistance genes in bacteria 1	
12	Resistance genes in bacteria 2	
13	Resistance genes in bacteria 3	
14	Resistance genes in bacteria 4	

23	Assesment
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Midterm Exam	1	40.00
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Final Exam	1	60.00
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Contribution of Term (Year) Learning Activities to	40.00
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Activites	Number	Duration (hour)	Total Work Load (hour)
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Practicals/Labs	14	2.00	28.00
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Homeworks	0	0.00	0.00
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Projects	0	0.00	0.00
Field Studies	0	0.00	0.00

Midterm exams	1	4.00	4.00
Others	0	0.00	0.00

Final Exams	1	6.00	6.00

Total Work Load			150.00

Total work load/ 30 hr			5.00
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ECTS Credit of the Course			5.00
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25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS
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OKS	9	9	9	0	0	9	0	0	0	0	0	0	0	0	0
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ÖK5	5	5	5	0	0	5	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			