

_

AYDIN ADNAN MENDERES UNIVERSITY **COURSE INFORMATION FORM**

Course Title Basic Microbiology		ology								
Course Code		LBT107 C		Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit 3 Workload 75 (Hours)		Theory	/	2	Practice	0	Laboratory	0		
Objectives of the Course The aim of this course is to viruses). To give basic infor classifications and usage an			mation	about	t the structu					
Course Content		Microorganisn metabolic regi					oorganisms, r	netabolism,	microbial reprodu	ction,
Work Placement N/A										
Planned Learning Activities and Teaching Methods			Explan	ation	(Presenta	tion), Discussi	on, Individua	al Study		
Name of Lecturer(s) Ins. Hilal DEMİRPENÇE		IİRPENÇE								

Prerequisites & Co-re	Prerequisites & Co-requisities						
Equivalent Course	BYL107						
Assessment Methods	and Criteria						

Assessment methods and Criteria								
Method	Quantity	Percentage (%)						
Midterm Examination	1	40						
Final Examination	1	60						

Recommended or Required Reading

1	Madigan, M.T., Martinko, J. M., Parker, J. 2016. Brock's Biology of Microorganisms. 14th Edition, Prentice-Hall, Inc., USA
2	Lodish,H.,Berk,A.,Zipursky,S.L.,Matsudaria,P.,Baltimore,D.,Darnell,J.,2000. Molecular cell Biology.
3	Freeman W.H., Tortora, C. F., Funke, B. R., Case, C.L.1995. Microbiology: An Introduction, 5th Edition, The Benjamin/Cummings Publishing Company Inc.

Week	Weekly Detailed Course Contents					
1	Theoretical	Microorganisms and microbiology, An overview of microbial life				
2	Theoretical	Macromolecules, Cell structure/Function				
3	Theoretical	Nutrition and laboratory culture and metabolism of microorganisms				
4	Theoretical	Microbial reproduction				
5	Theoretical	Fundamentals of molecular biology				
6	Theoretical	Metabolic regulation				
7	Theoretical	Fundamentals of virology				
8	Theoretical	Fundamentals of virology (Midterm Exam)				
9	Theoretical	Bacterial genetics				
10	Theoretical	Microbial evolution and systematic				
11	Theoretical	Prokaryotic diversity: Bacteria				
12	Theoretical	Prokaryotic diversity: Archaea				
13	Theoretical	Eukaryotic cell biology and eukaryotic microorganisms				
14	Theoretical	Microbial genomics, Viral diversity				

Workload Calculation

Activity	Quantity Preparation		Duration	Total Workload	
Lecture - Theory	14	0	2	28	
Reading	10	0	2	20	
Individual Work	14	0	1	14	
Final Examination	1	4	1	5	



Board Examination	1	7	1	8	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					

Learning Outcomes

Lean	ining Outcomes
1	To have knowledge about basic microbiology topics
2	To learn the classification of prokaryotic and eukaryotic microorganisms.
3	To have knowledge about metabolism in microorganisms.
4	To have knowledge about nutrition, growth and reproduction of microorganisms.
5	To be able to have information about evolution in micro-organisms
6	To understand the differences between prokaryotic and eukaryotic microorganisms.
7	To have basic knowledge about microbial genomics
8	Ability to comment on interactions between microorganisms
9	To be able to learn the use of microorganisms in some applications in biotechnology.

Programme Outcomes (Organic Agriculture)

•	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5	L6	L7	L8	L9
P5	5	5	5	5	5	5	5	5	5
P6	3	3	3	3	3	3	3	3	3

