Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering Genetic and Bioengineering Department

2023-2024 Spring Semester

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Syllabas					
Code/Name	GBM 303 / Biotechnology				
Type	Required				
Credit/ECTS	4/4				
Hour per Week	3 (3+0+0)				
Level/Year	Undergraduate/3				
Semester	Fall				
Classroom	D305				
Content	Timeline biotechnology, Cell structure, The artificial manipulation, modification, and recombination of DNA, methods of recombinant DNA technology, applications of biotechnology, microbial biotechnology, medical biotechnology, plant biotechnology.				
Prerequisites					
Textbooks	Primary				
	Class Notes				
	Supplementary				
Objectives	To learn biotechnology				
	 To learn applications of biotechnology 				
	 To learn microbial biotechnology, medical biotechnology, plant biotechnology 				
Course Outcomes	In this course you will be able to:				
	CO1 Understanding of biotechnology concepts.				
CO2 Outline the scope and applications of biotechnology.					
	CO3 Classify fundamental areas of biotechnology.				
	CO4 Develop problem solving ability.				
	CO5 Practice professional responsibilities and ethics.				

Weekly Schedule of Topics

W	Topic
1	Introduction to biotechnology
2	Timeline of biotechnology
3	Introduction to applications of biotechnology
4	Applications of biotechnology
5	Gene cloning processess
6	Tools Used in biotechnology
7	Recombinant DNA technology in biotechnology
8	Genetically Modified Organisms
9	Genetically Modified Plants
10	Microbial biotechnology
11	Plant biotechnology
12	Medical biotechnology
13	Molecular Markers and Their Applications
14	Enzyme Immobilization

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Professional	
Contribution	Understand the field of biotechnology and its applications

Contribution to Program Outcomes*

	P01	PO2	P03	P04	P05	P06	P07	P08	P09	PO10	P011
CO1	4	3	1	5	4	3	1	3	2	3	5
CO2	4	4	1	5	5	3	1	3	4	3	5
CO3	4	4	1	4	5	3	1	3	2	3	5
CO4	0	0	3	1	3	3	2	3	4	4	5
CO5	0	0	1	1	1	3	4	3	5	1	4

^{*} Contribution Level | 0: None | 1: Very Low | 2: Low | 3: Medium | 4: High | 5: Very High

Consist							
Special							
Conditions							
Requirements							
Course Policy	Be in the class on time.						
	 English should be used to communicate with one another. 						
	 Mobile phone should be switched off and put away during the class. 						
	 At least 70% attendance is required, otherwise a grade of DZ will be assigned. 						
Cheating & Plagiarism	 Copying or letting someone copy your work on exams, assignments, or reports is cheating. Cutting and pasting text, figures and tables from web sources or any other 						
	electronic source is plagiarism.						
	• The consequence of academic dishonesty is to receive a grade of FF for the course.						
Evaluation	Midterm	50%					
	Final Exam	50%					
	Total	100%					
Rubric	A rubric will be announced prior to exams.						
Instructor							
Name/Surname	Aslı Giray	Email	asli.giray@alanya.edu.tr				
Room		Office Hours	W 11.30-12.30 T 13.30-14.30				

Prepared by Aslı Giray.