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

2024-2025 Fall Semester

	2024-2025 Fall Semester					
Syllabus						
Code/Name						
Туре						
Credit/ECTS						
	ur per Week 2 (2+0+0)					
Level/Year						
Semester						
Classroom	D305					
Content History of industrial biotechnology, Fermentation, Industrial production, Industria						
Prerequisite						
Textbooks	Primary					
	Class Notes					
	Supplementary					
	Lesson notes prepared from books and articles					
Objectives	 To explain the definition, history and working areas of industrial biotechnology in detail. 					
	 Explaining the fermentation process in detail. 					
	 To explain the process stages of producing industrial products. 					
	 To explain the process stages of industrial biotechnological applications. 					
	To explain the biotechnological applications in industrial biotechnology					
Course Outco						
	CO1 Explain the concepts of industrial biotechnology.					
	CO2 Outline the applications of fermentation technology. CO3 Explain synthesis of industrial products.					
	CO4 Develop problem solving skills.					
	CO5 Defining the use of biotechnological applications in industry.					
Weekly Sched	ule of Topics					
W Topic	•					
1 Inform	Information about the course process					
2 History	History of industrial biotechnology					
3 Ferme	Fermentation technology					
4 Industi	Industrial production of enzymes					
5 Industi	Industrial biotechnological applications in the pharmaceutical industry					
6 Industi	Industrial biotechnological applications in the food industry					
7 Industi	Industrial biotechnological applications in the feed industry					
8 Industr	Industrial biotechnological applications in the paper and pulp industry					
9 Biotech	Biotechnological applications in the textile industry					
10 Biotech	nnological applications in the detergent industry					
11 Industr	Industrial biotechnological applications in biodiesel production					
12 Biofuel	Biofuel production and applications					

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14 Industrial biotechnology applications overview

Professional
Contribution

Explaining the field of industrial biotechnology and its applications

Contribution to Program Outcomes*

	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	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

Special Conditions	-				
Requirements	-				
Course Policy	 Be in class on time. English should be used to communicate with each other. If there is difficulty in making sentences in English, a dictionary can be used. Cell phones must be turned off and put away during class. Attendance is not compulsory. 				
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 <u>Final Exam</u> Total	50% 50% 100%			
Rubric	A rubric will be announced by the instructor before the exams are given.				
Instructor	-				
Name/Surname	Dr. Sevda ALTUN	Email	sevda.altun@alanya.edu.tr		
Room		Office Hours	W 11.30-12.30 T 13.30-14.30		

Prepared by Dr.Sevda ALTUN.