Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering **Genetic and Bioengineering Department** 2024-2025 Spring Semester

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Sylla								
	e/Name							
	e/Name	GBM 104 / INT. TO GENETICS AND BIOENGINEERING						
Type		Required						
Credit/ECTS		3/3						
Hour per Week		2 (2+0+0)						
	l/Year	Undergraduate/1						
	ester	Spring P107						
	sroom	D107 This course, designed as a seminar course for first-year students, faculty members from						
Content		various departments describe research and educational opportunities specific to their departments and offered by them. Introduce the basics of bioengineering fundamentals. Specially released videos provide additional background information with readings from articles.						
	equisites							
Textbooks		Primary Class Notes Supplementary Articles and presentations						
Obje	ctives	Identify the research areas of the department faculty.						
		 List the emerging promising areas of bioengineering fields Summarize design and production processes in bioengineering applications. Identify how biological principles intersect with engineering to drive innovation Combine, Interpret, and analyze different subfields of bioengineering 						
Course Outcomes		In this course you will be able to: CO1 Explain the fundamental concepts of biology and how they relate to engineering CO2 Analize research methods which are required to develop novel application methods CO3 Distinguish engineering and biological know-how CO4 Design bioengineering applications as project CO5 Explain the current state-of-the-art in various bioengineering domains.						
Wee	kly Schedule of	Topics						
W	Topic							
1	General introduction to bioengineering and its subfields							
2	Introduction to course project/Presentation Techniques							
3	Seminar on Biomaterial Engineering							
4	Seminar on Enzyme Engineering							
5	5 Seminar on Biomechanic Engineering							
6	6 Seminar on Genetic Engineering							
7	Seminar on Biomedical Engineering							
8	8 Seminar on Bioinformatics and Systems Biology							
9	Career Manag	ement, Introduction to national and international exchange programs						

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10	Panel I: Industrial Career Analysis of industrial career opportuniteis by industry-affiliated bioengineering experts				
11	Panel II: Academic Career Analysis of academic career opportunities by university-affiliated bioengineer scientists Assignment of the Course Project				
12	How to prepare CV and Cover Letter				
13	Project presentations				
14	Project presentations				

Professional				
Contribution				

Understanding the field of Genetics and Bioengineering and its applications

Contribution to Program Outcomes*

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011
CO1	3	3	3	3	3						2
CO2	4	5	5	5	5						2
CO3	3	3	3	4	4						2
CO4						4	3	4	5	4	4
CO5	3	3	3	3	3						2

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

Special Conditions Requirements **Course Policy** Be in the class on time. English should always be used to communicate with one another. At least 80% attendance is required, otherwise, a grade of DZ will be assigned. You must be present in class for the presentations, otherwise you will not be graded. Cheating & Copying or letting someone copy your work on exams, assignments, or reports is Plagiarism 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. 40% **Evaluation** Midterm 60% Project 100% Total

Instructor

Name/Surname	Özgür Öztürk	Email	ozgur.ozturk@alanya.edu.tr
Room	314	Office Hours	Tuesday 14:30-15:15 and Wednesday 10:30-11:15/15:30- 16:15

Prepared by Özgür Öztürk on November 18th, 2024