Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering Engineering Fundamental Sciences Department

2024-	2025	Fall	Semester
4041	2023	1 an	JUILLIUS

Sylla	bus						
Code	/Name	GBM 107L/ Chemistry Lab					
Type							
Cred	it/ECTS	1/1					
Hour	per Week	2 (0+2)					
	l/Year	Undergraduate/1					
Seme		Fall					
	room	WWF L016					
Cont	ent	This course provides an introduction to basic laboratory techniques, the experimental method and the presentation of scientific data, as well as direct experience with chemical principles and the properties and reactions of substances. The course provides a strong foundation in chemistry laboratory skills, performance of science investigations, use of scientific equipment and calculations with experimental data.					
Prer	equisites	-					
Text	books	Primary					
		Class Notes					
		Supplementary Daniel R. Albert, Chemistry Techniques and Explorations, The Pennsylvania Alliance for Design of Open Textbooks, 2023. J. A. Beran, Mark Lassiter, Laboratory Manual for Principles of General Chemistry					
		John Wiley & Sons, 2022.					
Obje	ctives	 To learn chemical principles and experimental methods investigating the basic operation within a chemistry laboratory, as well as some properties and reactions of chemical substances To perform calculations that relate atoms, molecules, moles and mass 					
		• To convert quantities in related units and systems of measurement					
Cour	se Outcomes	In this course you will be able to: CO1 Learn and practice safety standards in a chemical laboratory environment CO2 Develop skills in handling scientific equipment and making measurements CO3 Classify substances based on their physical and chemical properties CO4 Use scientific instruments to make quantitative measurements of the properties of samples CO5 Write formal reports in the style of scientific publications					
Weel	kly Schedule of	f Topics					
W	Topic						
1	Safety, Measurement and Record Keeping						
2	General Laboratory Techniques						
3	Recognition of Substances						
4	Investigation of Solubility						
5	Preparing Solutions						
6	Indicators						
7	Sublimation and Solubility of Iodine						
8	Determination of Acetic Acid Content of Vinegar						
9	Fluidity and Viscosity in Liquids						

Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering Engineering Fundamental Sciences Department

2024-2025 Fall Semester

10	Stoichiometry										
11 (Chemical Equilibrium										
12	Distillation										
13 l	Ionization and Classification of Electrolytes										
14	•										
Contri	Professional Ability to apply recordkeeping and reporting methods that reflect the integrity and ethics associated with scientific data and information										
Contri	bution to				1	ı	1				
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011
CO1	4	5	4	3	4	4	2	0	4	4	4
CO2	5	5	5	3	4	4	2	0	5	4	4
CO3	5	5	5	3	4	4	2	0	5	4	4
CO4	5	5	5	3	4	4	2	0	5	4	4
CO5	5	5	5	3	4	4	2	2	5	5	4
* Contr	* Contribution Level 0: None 1: Very Low 2: Low 3: Medium 4: High 5: Very High										
Special	Special Conditions -										
Requirements Laboratory coats and gloves must be worn during the experiments.											
Course Policy • Be in the class on time.											
 English should always be used to communicate with one another. 											
• At least 70% attendance is required, otherwise a grade of DZ will be assigned.											
	Cheating & Copying or letting someone copy your work on exams, assignments, or reports is cheating.					eports is					
		• (1	atting and	i pasting	text, figui	es and ta	dies from	web sou	rces or ai	ny other e	lectronic

_			
In	ctr	110	tor

Evaluation

Name/Surname	Çiğdem Dülgerbaki	Email	cigdem.dulgerbaki@alanya.edu.tr
Room	417	Office Hours	W 15.30-16.30 T 10.30-12.30

• The consequence of academic dishonesty is to receive a grade of **FF** for the course.

30%

30%

40%

100%

Prepared by Çiğdem Dülgerbaki on October 21st, 2024.

Reports

Midterm

<u>Final Exam</u> Total

source is plagiarism.