



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Chemistry III							
Course Code		FBÖ257		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Chemical analysis of simple steps, and learning from errors that may occur in the analysis. Volumetric and gravimetric methods of analysis to learn. Aqueous solutions to look at from a different perspective. recognition of organic molecules							
Course Content		Chemical Analysis, Evaluation of the Results of Chemical Analysis, Gravimetric Analysis, Volumetric Analysis, Chemistry of aqueous solutions, precipitation titrations, Reduction and Oxidation Reactions, Instrumental Analysis, Organic molekuls.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Discussion, Project Based Study, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Gündüz T. 1998; Kalitatif Analiz Ders Kitabı, A.Ü. Ankara
2	Gündüz T. 1999; Kantitatif Analiz Ders Kitabı, A.Ü. Ankara
3	Nakipoğlu C. 2016: Genel Kimya 3 Analitik Kimya

Week	Weekly Detailed Course Contents	
1	Theoretical	Chemical analysis
2	Theoretical	Evaluation of chemical analysis results
3	Practice	Gravimetric Analysis
4	Theoretical	Gravimetric Analysis
5	Theoretical	Acid-base titration
6	Practice	Acid-base titration
7	Theoretical	Precipitation Titrations
8	Intermediate Exam	Midterm
9	Theoretical	Organic and inorganic molecules
10	Theoretical	geometric structure of molecules, and hybridization
11	Theoretical	geometric structure of molecules, and hybridization
12	Theoretical	organic molecules and their properties
13	Practice	organic molecules and their properties
14	Theoretical	organic molecules and their properties
15	Practice	organic molecules and their properties
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Individual Work	12	0	1	12
Midterm Examination	1	9	1	10
Final Examination	1	10	1	11
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	1) Learning basis analytical chemistry concepts.
2	2) Explain the principles upon which many chemical analyses are based.
3	3) Perform several techniques commonly used in chemical analysis
4	4) Assess data obtained using common analytical methods
5	5) Solve real life problems by designing and performing the chemical analysis.

Programme Outcomes (Science Teacher Education)

1	To be able to gain subject knowledge of profession in theory and practice in the learning process.
2	To be able to gain the competence of using the appropriate approach, strategy, method and technique for the instructional plans to be prepared in the learning process.
3	To be able to gain the skills of the teaching profession in the learning process.
4	To be able to implement teaching profession knowledge, skills, attitudes and habits related to the subject-matter in a real teaching and learning environment in the learning process.
5	To be able to comprehend contemporary approaches of education and the philosophy they are based on.
6	To be able to gain the basic skills such as comprehending, expressing, commenting, evaluating, being aware and enterprising, communicating, acknowledging the individual related to the subject-matter.
7	To be able to become individuals faithful to the Principles and Revolutions of Ataturk, be modern democratic, secular, protecting and deveoping one's country, being alive to the nation, respecting human rights, preserving the nature, not being discriminatory, giving importance to the traditions and customs, protecting the values
8	To be able to improve oneself in terms of sport, art and culture.
9	To be able to become individuals believing in lifelong learning.
10	To be able to gain the vision of being individuals who keep up with developments in social, economic, technological and scientific areas, who investigate the main reasons of World problems and try to contribute to the solutions of these problems.

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

	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P2	5	4	5	5	5
P3	5	5	5	5	5
P4	5	4	5	5	5
P5	5	5	5	5	4
P6	5	4	5	5	5
P7	4	5	5	5	4
P8	5	4	5	5	5
P9	5	5	5	5	4
P10	4			5	5

