



YOZGAT BOZOK UNIVERSITY FACULTY OF ARTS AND SCIENCES
CHEMISTRY DEPARTMENT COURSE PLAN

Course Code	Course Title	Semester	Course Type (C/E)	T+A+L (Time/Week)	Credit	ECTS	Course Language
KİM241	Inorganic Chemistry II	Spring	C	4+0+0		6	Turkish

COURSE INFORMATION

Course Catalog Description (Content)	Ionic Solids, Oxidation-Reduction Reactions, Acids-Bases, Coordination Chemistry, Organometallic Chemistry
The Aim of the Course	To give students basic information about Inorganic Chemistry.
Course Level	Bachelor degree
Course Language	Turkish
Teaching method	(X) Formal () Online () Mixed/Hybrid
Teaching Staff of the Course	Prof. Dr. Mustafa SAÇMACI
Prerequisite Course(s) of the Course	
Learning Outcomes from the Course	1- Defines the concepts of Ionic Solids. 2- Explains Oxidation-Reduction Reactions. 3- Defines basic information about Acids-Bases. 4-Explains the theory of coordination chemistry using basic inorganic information. 5-Knows the concepts of Organometallic Chemistry.

COURSE CONTENT

Week	Theory	Practice/Laboratory
1	Ion Formation	
2	Ionic Bond	
3	Ionic Solids	
4	Oxidation-Reduction Reactions	
5	Acids-Bases	
6	Acids-Bases	
7	Introduction to Coordination Chemistry, Nomenclature, Isomerism	
8	Coordination Chemistry / Valence Bond Approach	
9	Coordination Chemistry / Crystal Field Theory	
10	Coordination Chemistry / Molecular Orbital and Ligand Field Theories	
11	Coordination Chemistry / Some Applications of Ligand Field Theory	
12	Organometallic Chemistry	
13	Organometallic Chemistry	
14	General Repetition	
15	Final Exam	

Course Learning Resources

1. Tunalı, N.K., Özkar, S. 2005; İnorganik Kimya, Ankara, Türkiye.

2. Kaya, C. 2008; İnorganik Kimya 2, Ankara, Türkiye

3. Poterfield, W. W. 1984; Inorganic Chemistry, USA

ASSESSMENT CRITERIA

Work Activities During the Semester	Number	Contribution
Homework	1	%30
Practice		
Forum/ Discussion Application		
Short Exam (Quiz)	2	%35
Ratio Of Semester Studies To Semester Success (%)		%40
Ratio of Final to Success (%)	1	%60
Total		%100

COURSE WORKLOAD TABLE

Activity	Total Weeks	Duration (Weekly Hours)	Total Workload
Theory	14	4	56
Practice			
Forum/ Discussion Application			
Reading	4	8	32
Internet Scanning, Library Study	14	2	28
Material Design, Application			
Report Preparation			
Presentation Preparation			
Presentation			
Final Exam	1	2	2
Preparation for the Final Exam	4	8	32
Other(s) (Specify:)			
Total Workload			
Total Workload / 25 (s)			150/25
ECTS Credits of the Course			150/25 \cong 6

Note: The workload of the course will be determined by the instructor on a per-course basis.

PROGRAM LEARNING OUTPUTS CONTRIBUTION LEVELS

No	Program Learning Outputs	1	2	3	4	5
1	Gains extensive knowledge about the basic chemical properties of matter and uses this knowledge in daily life, industrial scale, and practical chemistry and shares them with the society.					X
2	Performs experiments, collects data, interprets, evaluates results, defines problems parallel to current technological developments, produces solutions against problems encountered in the laboratory.	X				
3	Calculates and processes chemical information and data.			X		
4	Applies her/his knowledge and understanding of chemistry to the solution of unconventional qualitative and quantitative problems.				X	
5	Defines and comprehends chemical concepts and theories in Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Biochemistry.					X
6	Can conduct research in the light of scientific data on any subject in the field of chemistry.				X	
7	Writes, presents, discusses scientific material, and presents it orally to a knowledgeable audience.			X		

8	Brings a chemical approach to the solution of environmental problems, makes environmental analyzes and reports.		X		
9	Knows a foreign language at a level to read and understand the basic terms and processes of the chemist profession.				X
10	Can use computer software and information and communication technologies at the level required by the field.				X
11	Adapts and transfers the knowledge gained in the field to secondary education.			X	
12	Apart from the field of chemistry, she/he gains knowledge in different branches of science that she feels close to.				X
13	Carries out a study independently, makes group work and gains the awareness of taking responsibility.			X	
14	They can develop a positive attitude towards lifelong learning and constantly renew their professional knowledge and skills.				X
15	Have sufficient awareness of the universality of social rights, social justice, quality culture and protection of cultural values, environmental protection, occupational health and safety.		X		

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