AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Inorganic Cyclic Compounds								
Course Code	KİM536		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	6	Workload	156 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	examination of some of the basic elements in parallel with the organic chemistry group in the structure of the cyclic inorganic compounds.								
Course Content	Borazines, Borazine compounds, Boron-Cage Structures, Carboranes, Cyclic Phosphazenes, Cyclic Nitrogen-Sulfur Compounds (Thiazenes), Homocyclic systems , Heterocyclic Systems, Crown Ethers, Complexes of Crown Ethers, Macrocyclic Ligands, Macrocyclic Ligand Complexes.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study, Problem Solving								
Name of Lecturer(s)	Prof. Nursabah SARIKAVAKLI								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Tunalı, N. K. ve Özkar, S., (1999)Anorganik kimya, Gazi Kitabevi, Ankara
2	Shriver D.F., Atkins P. W., Langford C. H., (1991) Inorganic Chemistry, Oxford Chemistry
3	Miessler G.L., Tarr D.A., (1999) Inorganic Chemistry, PrenticeHall
4	Housecroft C.E., Sharpe A.G., (2001) Inorganic Chemistry, 1st Ed, PrenticeHall
5	Huheey J.E., Keiter E.A., Keiter R.L., (1993) Inorganic Chemistry, 4th Ed., Harper Collins

Week	Weekly Detailed Course Contents	
1	Theoretical	Borazines
2	Theoretical	Borazine compounds
3	Theoretical	Boron-Cage Structures
4	Theoretical	Carboranes
5	Theoretical	Cyclic Phosphazenes
6	Theoretical	Cyclic Nitrogen-Sulfur Compounds (Thiazenes)
7	Theoretical	Homocyclic systems
8	Intermediate Exam	Midterm Exam
9	Theoretical	Heterocyclic Systems
10	Theoretical	Crown Ethers
11	Theoretical	Complexes of Crown Ethers
12	Theoretical	Macrocyclic Ligands
13	Theoretical	Macrocyclic Ligand Complexes
14	Theoretical	Student Presentations
15	Theoretical	Student Presentations
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	4	0	9	36
Reading	14	0	1	14
Midterm Examination	1	30	2	32

Final Examination	1	30	2	32
			Total Workload (Hours)	156
			[Total Workload (Hours) / 25*] = **ECTS**	6
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	to be able to recognize the basic concepts of borazin and compounds of borazines
2	to be able to find out the Bor-cage structures, carboranes, cyclic phosphazenes, thiazenes.
3	to be able to recognize the homocyclic and heterocyclic systems, macrocyclic ligands and crown ethers,
4	to be able to apply crown ethers and macrocyclic ligands to the complexes.
5	Examine articles on inorganic ring compounds

Programme Outcomes *(Chemistry Master)*	
1	To be able to gain proficiency in depths and analysis by statistical methods in the same or a related area depending on the undergraduate competence,.
2	To be able to use the knowledge of his/her field and the skills to solve problems and/or applications in interdisciplinary research.
3	To be able to adopt to evaluate the information and skill his/her field by critical approach.
4	To be able to evaluate the effect of important persons, case and fact on his/her field applications.
5	To be able to gain the ability to discuss write and orally present to a group of literate listener.
6	To be able to communicate orally and written in a foreign language at least at European language B2 level.
7	To be able to use computer programs related to his/her field and have skills for informatics communication.
8	To be able to be careful in protecting social, scientific and cultural ethics in collection data, application and presentation.
9	To be able to develop strategic, political and application plans in his/her field and may evaluate the outcomes in quality periods.

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	4	4	4	4	4
P2	4	4	4	4	4
P3	4	4	4	4	4
P5	4	4	4	4	4