CORROSION CHEMISTRY AND ORGANIC CORROSION										
INHIBITORS										
1	Course Title:		CORROSION CHEMISTRY AND ORGANIC CORROSION INHIBITORS							
2	Course Code:	KIM4062								
3	Type of Course:	Optional								
4	Level of Course:	First Cycle								
5	Year of Study:	4								
6	Semester:	8								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Doç. Dr.	SERKAN ÖZTÜRK							
15	Course Lecturers:	Yok								
16	Contact information of the Course Coordinator:	Doç. Dr. Serkan ÖZTÜRK serkanozturk@uludag.edu.tr (224)-2755093 Bursa Uludağ Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü								
17	Website:									
40	Objective of the Course:	To introduce the corrosion event, which is one of the important problems of the industry, and to emphasize the importance of using an organic corrosion inhibitor, which is one of the methods of corrosion protection.								
18		problems an organ	of the industry, and to emphasize the importance of using ic corrosion inhibitor, which is one of the methods of							
18	Contribution of the Course to Professional Development:	 problems an organ corrosion To reco To unde To know Knowledg To learn importan To learn 	of the industry, and to emphasize the importance of using ic corrosion inhibitor, which is one of the methods of							
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19	Contribution of the Course to Professional Development:	 problems an organ corrosion To reco To unde To know Knowledg To learn importan To learn 	s of the industry, and to emphasize the importance of using ic corrosion inhibitor, which is one of the methods of protection. gnize and learn the corrosion event erstand the important elements of corrosion chemistry v the reason of the formation of corrosion and to have ge about the damages to the economy and the environment n corrosion protection methods and to understand the ce of using inhibitor n some organic structured substances used as corrosion							
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19	Contribution of the Course to Professional Development:	problems an organ corrosion - To reco - To unde - To know knowledg - To learr importan - To learr inhibitors 1 2 3 4 5	 of the industry, and to emphasize the importance of using ic corrosion inhibitor, which is one of the methods of protection. gnize and learn the corrosion event erstand the important elements of corrosion chemistry with reason of the formation of corrosion and to have ge about the damages to the economy and the environment in corrosion protection methods and to understand the corrosion protection methods and to understand the corrosion protection methods and to understand the corrosion and their mechanism of action against corrosion To recognize and learn the corrosion event To understand the important elements of corrosion and to have knowledge about the damages to the economy and the environment To know the reason of the formation of corrosion and to have knowledge about the damages to the economy and the environment To learn about the types of corrosion To learn corrosion protection methods and to understand the importance of using inhibitor To learn some organic structured substances used as corrosion and the importance of using inhibitor 							
19	Contribution of the Course to Professional Development:	problems an organ corrosion - To reco - To unde - To know knowledg - To learr importan - To learr inhibitors 1 2 3 4 5 6	 of the industry, and to emphasize the importance of using ic corrosion inhibitor, which is one of the methods of protection. gnize and learn the corrosion event erstand the important elements of corrosion chemistry with reason of the formation of corrosion and to have ge about the damages to the economy and the environment in corrosion protection methods and to understand the corrosion protection methods and to understand the corrosion protection methods and to understand the corrosion and their mechanism of action against corrosion To recognize and learn the corrosion event To understand the important elements of corrosion and to have knowledge about the damages to the economy and the environment To know the reason of the formation of corrosion and to have knowledge about the damages to the economy and the environment To learn about the types of corrosion To learn corrosion protection methods and to understand the importance of using inhibitor To learn some organic structured substances used as corrosion and the importance of using inhibitor 							

		10								
21	Course Content:									
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Week	Theoretical		Practice							
1	What is the introduction of the course corrosion?	e and								
2	Corrosion chemistry and its importan	ice								
3	Causes of corrosion, factors affecting formation of corrosion and anti-corro methods									
4	Chemical and electrochemical corros events	sion								
5	Types of corrosion and their importai	nce								
6	Types of corrosion and their importai	nce								
7	Midterm									
8	Corrosion rate, determination methor factors affecting corrosion rate	ds and								
9	Corrosion occurring in acidic and neu corrosive environments	utral								
10	Inhibitor use, classification and impor prevent corrosion	rtance to								
11	Organic nonionic surfactants used as corrosion inhibitors, inhibition activitie									
Activit			Number	Duration (hou	ur) Total Work Load (hour)					
Th fab re	Caganic cationic surfactants used as		14	3.00	42.00					
Practic	learracion inhibitors, inhibition activitie als/Labs	ac and	0	0.00	0.00					
Se lf4 stu	€xanoplesepepetionners and other org	anic	14	2.00	28.00					
Homew	vorks		1	1 24.00 24.00						
Project	mechanisms		0	0.00	0.00					
Field S	tudies		0 0.00 0.00							
Midtern	Maxemals:		Infroduction to C	orrosion29c0ence and E	ngin 🕰 🕅 🍕 , 4th					
Others			1	8.00	8.00					
Final E	xams		1	24.00	24.00					
Total V	/ork Load				150.00					
Total w	ork load/ 30 hr		2011.		5.00					
ECTS (Credit of the Course				5.00					
	EARNING ACTIVITIES	NUMBE R	WEIGHT							
Midtern	n Exam	1	20.00							
Quiz		0	0.00							
	work-project	1	20.00							
Final E	xam	1	60.00							
Total		3	100.00							
	ution of Term (Year) Learning Activities S Grade	es to	40.00							
			1	60.00						
Contrib	ution of Final Exam to Success Grade	e	60.00							

Measurement and Evaluation Techniques Used in the	There will be 1 midterm and 1 final exam including multiple
Course	choice or open ended questions. A homework grade will
	also be given.

24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	3	2	3	3	3	3	3	3	4	4	4	4	0	0	0
ÖK2	4	3	3	4	4	4	4	3	3	4	4	4	4	0	0	0
ÖK3	5	4	3	3	4	3	4	3	3	4	4	4	4	0	0	0
ÖK4	4	4	3	3	3	3	4	3	3	4	4	4	4	0	0	0
ÖK5	4	4	3	4	4	3	4	3	3	4	4	4	4	0	0	0
ÖK6	3	4	3	4	4	3	3	3	3	4	4	4	4	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution			2 low			3 Medium		4 High			5 Very High				