N BOZOK ÜNIVER
Bert
2006

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

Course	e Code	Course Title	Semes ter	Course Type (C/E)	T+A+L (Time/Week)	Credi t	ECTS	Course Language	
ADSI	L-064	Art and Chemistry	1	E	2+0+0	2	2	Türkçe	
		1	COURSE	INFORMAT	ION				
Course Catalog Description (Content)			Definition and purpose of art and chemistry, colors and paints, chemistry, clay-pottery-ceramic, glass, painting, sculpture, photography, etc. It includes theoretical topics such as the chemical properties of jewellery, the detection of counterfeiting in works of art, the chemical hazards faced by works of art and their protection and restoration, chemical and spectroscopic methods used to determine the properties of works of art.						
The Aim of the Course			The aim of this course is to explain the bond between art and chemistry, to talk about the content of chemicals used in artworks and the effects of the development in chemistry on artworks, to explain the chemical hazards that artworks face and to increase students' awareness by giving information about their protection and restoration, To give information about chemical and spectroscopic methods.						
Course Level			Lessons will be given remotely via online education. The lecture notes of the lecturer and the books, articles and similar resources will be used as the source.						
Course Language			Bachelor de	gree					
Teaching method			Türkçe						
Teachi	ng Staff	of the Course	(X) Formal	() Online	() Mixed/Hyb	rid			
Prerequisite Course(s) of the		ourse(s) of the	Asst. Prof. Dr. Hatice ARI						
Learning Outcomes from the Course									
Course Catalog Description (Content)			 Can deepen their understanding of the links between chemistry and art. By learning the chemical properties of paints, they can have an idea about their use in works of art. Have knowledge about the chemicals used in works of art such as clay, pottery, ceramics, glass, painting, sculpture, photography and the like. Can learn the chemical properties of jewels and explain the chemical processes applied to them. Can list the methods applied to determine whether works of art are real or fake. Learns the ways of protecting works of art from chemical hazards and can learn about how their restoration is done. Gain information about chemical and spectroscopic methods used to determine the properties of works of art. 						
			CC		TENT				
Week	Theory Practice/Laboratory								
1	The rela	ationship between che	mistry and ar	t					
2 The use of chemistry in art, the			e effects of t	he					
3	Colors and paints								

4	Clay-pottery-ceramic ar						
5	glass art and chemistry						
6	Painting and chemistry						
7	Sculpture and chemistry						
8	photography and chemi	stry					
9	Gems and chemistry						
10	Methods of detecting fo	rgery in art					
11	Conservation and resto	ration of works of art					
12	Chemical hazards in art						
13	Chemical methods used properties of works of a	d to determine the rt					
14	Spectroscopic methods properties of works of a	used to determine the rt					
15		Fi	inal Exam				
 Barbara R. Greenberg, Dianne Patterson, Art in Chemistry, Chemistry in Art, Teacher Ideas Press, 2nd ed (2008) Anne Gaquere-Parker, Cass D. Parker, Chemistry and Art, Kendall Hunt Publishing; 2nd ed (2014) Lecture notes, current resources (websites, articles, etc.) 							
Work A	ctivities During the Seme	ster	Number	Co	ontribution		
Homew	ork		2		%40		
Practic	e		-		-		
Forum/	Discussion Application		-		- %60		
Ratio O	of Semester Studies To Se	mester Success (%)	3		%50		
Ratio o	f Final to Success (%)		0		%50		
Total					%100		
		COURSE WORK	KLOAD TABLE				
Activity		Total We	eks Dura	tion (Weekly Hours)	Total Workload		
Attend	ing the Class	14		2	28		
Self St	udy torming	1		3	3		
Drailis		5			5		
Readin	ng	3		1	3		
Homev Quiz	VORK	2		1	3		
Self St	udv for Quiz	3		1	3		
Final E	xam	1		1	1		
Prenar	ation for the Final Exan	י ז 1		3	3		
Total Workload					51		
Total Workload / 25 (s)					51/25		
ECTS	Credits of the Course				2.04≌2		
Note: TI	he workload of the course w	ill be determined by the in	structor on a per-cou	urse basis.			
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	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.			Х					
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			