

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Organic Dyes						
Course Code	KİM524	Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 6	Workload 156 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	of the dyes of	chemical str	ucture, synthe	sis			
Course Content	ants , proper	ties, applica	ations and synt	hesis routes			
Work Placement N/A							
Planned Learning Activities and Teaching Methods Explanation (Presentation), Discussion, Problem Solving							
Name of Lecturer(s)	AN						

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination	1	20					
Final Examination	1	60					
Assignment	4	20					

Recommended or Required Reading					
1	Zollinger, H.,Color Chemistry, Wiley-VCH, Zürich, 1991				
2	Gordon P.F, Gordon P., Orgaic Chemistry in Color, Springer-Verlag, ew York, 1983.				
3	Christie R.M., Colour Chemistry, Royal Society of Chem, UK, 2001				

Week	Weekly Detailed Cour	se Contents				
1	Theoretical	Colorants, color and properties				
2	Theoretical	Colorants classes and their applications				
3	Theoretical	Synthesis of the dyes intermediate compounds				
4	Theoretical	Synthesis and properties of Azo dyes				
5	Theoretical	Synthesis and properties of Anthraquinone dyes				
6	Theoretical	Synthesis and properties of Vat and Indigo dyes				
7	Theoretical	Synthesis and properties of Phthalocyanine dyes				
8	Theoretical	Synthesis and properties of Polymethine dyes				
9	Preparation Work	An overview of the course topics				
	Intermediate Exam	Midterm				
10	Theoretical	Aryl-carbonium dyes				
11	Theoretical	Nitro and sulfur dyes				
12	Theoretical	Organic and Inorganic Pigments				
13	Theoretical	Functional Dyes and Pigments				
14	Theoretical	High technologic Dyes and Pigments				
15	Theoretical	Dyes having biological significance				
	Preparation Work	An overview of the course topics				
16	Final Exam	Term exam				

Workload Calculation							
Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	14	0	3	42			
Assignment	4	15	0	60			
Midterm Examination	1	25	2	27			



Final Examination	1		25	2	27	
Total Workload (Hours)					156	
[Total Workload (Hours) / 25*] = ECTS						
*25 hour workload is accepted as 1 ECTS						

Learn	Learning Outcomes								
1	to be able to recognize the concept of Dye								
2	to be able to find out the route of the basic chemical s	ynth	esis of dyes						
3	to be able to recognize the industrial uses of dyes.								
4	to be able to define the desired properties of dyes.								
5	To be able to the classes of dyes								

Progr	amme 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
P2	4	4	4	4	4
P3	5	5	5	5	5
P4	3	3	3	3	3
P5	2	2	2	2	2
P6	3	3	3	3	3
P7	2	2	2	2	2
P8	5	5	5	5	5
P9	5	5	5	5	5

