AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Use of Organic Dyes								
Course Code	KİM629		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	8	Workload	196 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	Understanding the functions in the areas of colorants use, so that creating infrastructure for new areas of usage.								
Course Content	The appropriateness of dyes according to various fields, and the applications.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Problem Solving								
Name of Lecturer(s)									

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 Course Contents	
1	Theoretical	
2	Theoretical	
3	Theoretical	
4	Theoretical	
5	Theoretical	
6	Theoretical	
7	Theoretical	
8	Theoretical	
9	Intermediate Exam	
10	Theoretical	
11	Theoretical	
12	Theoretical	
13	Theoretical	
14	Theoretical	
15	Theoretical	
16	Final Exam	

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	4	0	25	100
Midterm Examination	1	25	2	27
Final Examination	1	25	2	27
			Total Workload (Hours)	196
			[Total Workload (Hours) / 25*] = **ECTS**	8
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	to be able to understand the structure and properties of dyes.
2	to be able known industrial uses of dyes.
3	to be able the desired properties according to the application area in dyes.
4	To know the use of dyes in materials.
5	To know the use of dyes in textile area.

Programme Outcomes *(Chemistry Doctorate)*	
1	Depending on the master degree competences, develops, insights and innovates current and advanced knowledge and/or research in proficiency level.
2	Gains high skill levels in using research methods in the field of his/her study.
3	Comprehends the interaction between disciplines related to his/her field. Reaches to original results using his/her expertise in order to analyze, synthesize and evaluate new and complicated ideas.
4	Enlarges the boundaries of his/her field of knowledge by publishing at least one research paper in national and/or international peer-reviewed journals.
5	Defends his/her original opinions related to his/her field before authority and communicates effectively illustrating his/her competence.
6	May communicate and debate written, orally and visually in European Language Portfolio level C1.
7	Follows the developments in computer software and information and communication technologies developed for his/her research area and uses these in order to solve research problems.
8	Collaborates for scientific research with national and international research teams.
9	Contributes to the course of creation and maintenance of knowledge based society and by introducing the scientific, social and cultural developments to the society he/she is living in.

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	5	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5	5	5	5	5
P7	5	5	5		
P8	5	5	5		
P9	5	5	5		