

Course Name-Code:AT 502 DYES AND PIGMENTS					Programme Name:ADVANCED TECHNOLOGY				
Semester	Methods of Education and Teaching							Credits	
	Lecture	Recit.	Lab.	Practical Training	Project/Field Study	Others	Total	Credit	ECTS Credit
1-2	42	-	-	75	23	48	188	3	7.5
Language	Turkish								
Compulsory / Elective	Elective								
Prerequisites	None								
Course Contents	Dyes and pigments. Organic pigments. Inorganic pigments. Azo dyes, anthraquinone dyes and pigments. High technology dyes and pigments. Electronic applications of dyes and pigments. Reprographic applications of dyes and pigments. Pigments for special effects.								
Course Objectives	<ul style="list-style-type: none"> To study dyes and pigments. To investigate their synthesis 								
Learning outcomes and competences	<ul style="list-style-type: none"> To be informed about pigments and applications dyes and pigments. 								
Textbook and /or References	<ol style="list-style-type: none"> 1. K. Venkataraman, The Chemistry of Synthetic Dyes, Academic Press, USA, 1952. 2. Hans G. Völz, Industrial Color Testing; Fundamentals and Techniques, Willey_VCH, 2001. 3. Klaus Hunger (Ed) Industrial Dyes; Chemistry, Properties, Application, Willey_VCH, 2003. 								
Assessment Criteria								<i>Quantity</i>	<i>Percentage</i>
	Midterm Exams							x	40
	Quizzes							-	-
	Homeworks							-	-
	Projects							-	-
	Term Paper							x	20
	Laboratory Work							-	-
	Other							-	-
	Final Exam							x	60
Prepared by	Prof. Dr. Ayşe MURATHAN								
Week	Subject								
1-4	Introduction, Dyes and pigments. Organic pigments. Inorganic pigments. Azo dyes, anthraquinone dyes and pigments.								
5-7	High technology dyes and pigments								
8-9	Electronic applications of dyes and pigments.								
10-11	Reprographic applications of dyes and pigments.								
12	Pigments for special effects.								
13-14	Presentation								