

1. Course Description

COURSE DESCRIPTION FORM	
Course Code and Title	KM468 TEXTILE DYE AND FABRIC DYEING TECHNOLOGY
Course Semester	8
Catalog Description (Content) of the Course	Fabricdyeingandprintingtheory. Color fastness.Classificationandproperties of dyestuffs.Dyeing of cellulosic, protein, polyester staplefibres.
Main Textbook	TextileScience, E.P.G. Gohland L.D. Vilensky, LongmanCheshire, Melbourne, 1980
Supporting Textbooks	Color Chemistry, H. Zollinger, VCH, Weinheim, 1987 • TheChemistryand Application of Dyes, D.R. Waringand G. Hallas, PlenumPress, New York, 1990 • Developments in theChemistryandTechnology of OrganicDyes, J. Griffiths, SCI, London, 1984 • TheTheory of Coloration of Textiles, A. Johnson, SDC, Bradford, 1995
Course Credit (ECTS)	4
Prerequisites of the Course (Compulsory attendance should be indicated here.)	No
Type of the Course	Elective
Instruction Language of the Course	Turkish
Object and Target of the Course	Examination of textiledyesynthesis, informingaboutdyeingandprintingseveralfibres, qualiyevaluation of dyestuffandfabricdyeing.
Learning Outcomes of the Course	Informingabouttextiledye, fabricdyeingandprintingtechnology.
Mode of Delivery	Face to face education
Weekly Schedule of the Course	COURSE CONTENT
	1. week Color andcolorfulness
	2. week Fabricdyeingandprintingtechnology
	3. week Dyeingmachines
	4. week Color fastness
	5. week Color fastness
	6. week Classification of dyes
	7. week Classification of dyes
	8. week Dyeing ofcellulosefibre, reactiveanddirectdyestuffs
	9. week Dyeing of cellulozefibre, reactiveanddirectdyestuffs
	10. week Dyeing of polyester staple fiber, disperseand vat dyes

	11. week	Dyeing of polyester staple fiber, disperse and vat dyes			
	12. week	Dyeing of protein staple fibre, acid and chromedyes			
	13. week	Dyeing of protein staple fibre, acid and chromedyes			
	14. week	Dyeing of protein staple fibre, acid and chromedyes			
Educative Activities <i>(Credit will be determined based on the time given for these activities. Should be filled carefully.)</i>	Theoretical Study Hours of Course Per Week Reading Searching in Internet and Library Preparing Reports Preparing Presentation Presentation Mid-Term and Studying for Mid-Term Final and Studying for Final				
Assessment Criteria		Quantity	Total Contribution (%)		
	Midterm	2	40		
	Homework	-	-		
	Assignment	-	-		
	Projects	1	20		
	Practice	-	-		
	Quiz	-	-		
	Contribution of In-term Studies to Overall Grade		60		
	Contribution of Final Examination to Overall Grade		40		
Attendance					
Workload of the Course		Activity	Total Week Count	Weekly Duration (in hour)	Total Workload in Semester
		Theoretical Study Hours of Course Per Week	14	3	42
		Reading	8	2	16
		Searching in Internet and Library	8	2	16
		Preparing Reports	3	3	9
		Preparing Presentation	1	3	3
		Presentation	1	1	1
		Mid-Term and Studying for Mid-Term	2	4	8
		Final and Studying for Final	1	5	5
		Total work load			100
		Total work load/25			4.0
		ECTS of the course			4

		Number	Program Outcomes	1	2	3	4	5	
		1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.	x					
		2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.	x					
		3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.	x					
		4	Ability to devise, select, and use modern techniques and tools needed for engineering practice; ability to employ information technologies effectively.	x					
		5	Ability to design and conduct experiments, gather data, analyze and interpret results for investigating engineering	x					

		problems.						
	6	Ability to work efficiently in intra-disciplinary teams.					x	
	7	Ability to work efficiently in multi-disciplinary teams;	x					
	8	Ability to work individually.					x	
	9	Ability to communicate effectively in Turkish/English, both orally and in writing; Ability to write effective reports and comprehend written reports, make effective presentations,					x	
	10	prepare design and production reports, give and receive clear and intelligible instructions.	x					
	11	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.		x				
	12	Awareness of professional and ethical responsibility.					x	
	13	Information about business life practices such as project management, risk management, and change management.			x			
	14	Information about awareness of entrepreneurship, innovation, and sustainable development.		x				

[illegible]