DYEHOUSE LABORATORY AND DYEHOUSE AUTOMATION SYSTEMS

1	Course Title:	DYEHOUSE LABORATORY AND DYEHOUSE AUTOMATION SYSTEMS
2	Course Code:	TEK3418
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	6
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. BEHÇET BECERİR
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	becerir@uludag.edu.tr / 294 20 47/ Uludağ Üniv. Müh.-Mim. F. Tekstil Müh. Böl. 16059 Görükle Bursa
17	Website:	
18	Objective of the Course:	This course is designed to train students in understanding of dyehouse laboratory activities and usage. The objectives of the course include training the students in understanding dyehouse automation software and hardware.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Know the basic principles and application of laboratory tests
	2	Identify dyehouse establishment and processes
	3	Apply automation applications
	4	Use dyehouse automation
	5	
	6	
	7	
	8	
	9	
	10	

21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Dyehouse laboratory organization	
2	Laboratory dyeing techniques and procedures	
3	Evaluation and testing of dyes	
4	Chemical and auxiliary tests	
5	Fastness tests	

6	Physical tests methods of textiles	
7	Process control and quality control	
8	Dyehouse production planning	
9	Dyehouse production control	
10	Repeating courses and midterm exam	
11	Dyehouse production-management and automation system software	
12	Dyehouse production management inspection and automation system	
13	Dyehouse production management inspection and automation system	
14	Dyehouse automation	

22	Textbooks, References and/or Other Materials:	1. Boyahane Laboratuvarı ve Otomasyon Sistemleri Ders Notları Behçet Becerir, 2006
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	1	10.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00
Contribution of Final Exam to Success Grade		50.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	6	2.00	12.00
Homeworks	1	30.00	30.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	0	4	4	0	0	0	0	0	0	0	0	4	0	0	0	4
ÖK2	0	4	4	0	0	0	0	0	0	0	0	4	0	0	0	4
ÖK3	0	4	4	0	0	0	0	0	0	0	0	4	0	0	0	4
ÖK4	0	4	4	0	0	0	0	0	0	0	0	4	0	0	0	4

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High