

YARN TEKNOLOGY

1	Course Title:	YARN TEKNOLOGY
2	Course Code:	TEK3073
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	1.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. SİBEL ŞARDAĞ
15	Course Lecturers:	Prof.Dr.Sunay ÖMEROĞLU
16	Contact information of the Course Coordinator:	Dr. Öğretim Üyesi Sibel ŞARDAĞ e-mail: sibels@uludag.edu.tr Tel: 0-224-294 2066 Bursa Uludağ Üniversitesi Mühendislik Fakültesi Tekstil Mühendisliği Bölümü 16059-Görükle-Bursa
17	Website:	
18	Objective of the Course:	To provide knowledge on the importance of the cotton fibre properties in cotton yarn spinning. To provide knowledge about the technology of carded and combed yarn production,carded yarn machines and innovations.
19	Contribution of the Course to Professional Development:	Enables students to use and improve their knowledge about yarn properties and yarn machines throughout their professional life.
20	Learning Outcomes:	
	1	Being able to recognize the relationship between cotton fibre properties and yarn properties in cotton yarn spinning.
	2	Being able to recognize the relationship between process parameters and yarn properties in cotton yarn spinning.
	3	Being able to recognize information about the technology of carded and combed yarn production and machines.
	4	Being able to understand and follow the technological innovations in cotton yarn machines.
	5	Being able to work as part of a team.Being able to explain the knowledge using presentation techniques.
	6	
	7	
	8	
	9	
	10	
21	Course Content:	

	Course Content:			
Week	Theoretical	Practice		
1	General Information Introduction	Animation and video show		
2	The importance of the cotton fibre properties in cotton yarn spinning.	Animation and video show		
3	Blowroom I	Animation and video show		
4	Blowroom II	Animation and video show		
5	Carding	Animation and video show		
6	Drawing	Animation and video show		
7	Roving	Animation and video show		
8	Ring spinning I	Animation and video show		
9	Ring spinning II	Animation and video show		
10	Combed cotton spinning technological and yarn machines I	Animation and video show		
11	Combed cotton spinning technological and yarn machines II	Animation and video show		
12	The technological innovations in carded and combed cotton yarn machines and homework presentation	Homework presentation		
13	The technological innovations in carded and combed cotton yarn machines and homework presentation	Homework presentation		
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	3.00	42.00
22	Textbooks, References and/or Other	“Yarn technology.” course notes - Prof Dr Özcan		
Practicals/Labs		14	1.00	14.00
Self study and preperation		12	2.00	24.00
Homeworks		1	12.00	12.00
Projects		- Machine catalogues and CD's of the firms		0.00
Field Studies		0	0.00	0.00
Midterm exams		- Klein, W. “A practical guide to opening and carding”,		10.00
Others		1	4.00	4.00
Final Exams		1	14.00	14.00
TERM LEARNING ACTIVITIES		NUMBE	WEIGHT	
Total Work Load				120.00
Midterm Exam		1	30.00	
Total Work load/ 30 hr				4.00
ECTS Credit of the Course				4.00
Home work-project		1	10.00	
Final Exam		1	60.00	
Total		3	100.00	
Contribution of Term (Year) Learning Activities to Success Grade		40.00		
Contribution of Final Exam to Success Grade		60.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation are carried out with a midterm exam, a project assignment and a final exam.		
24	ECTS / WORK LOAD TABLE			

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	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	5
ÖK2	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	5
ÖK3	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	5
ÖK4	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	5
ÖK5	1	1	1	1	1	1	5	5	1	1	1	1	1	1	1	5
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				