POST OPERATIONS IN YARN TECHNOLOGY

1	Course Title:	POST OPERATIONS IN YARN TECHNOLOGY
2	Course Code:	TEK5037
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Yrd.Doç.Dr. SİBEL ŞARDAĞ
15	Course Lecturers:	Doç.Dr. ERHAN KENAN ÇEVEN
16	Contact information of the Course Coordinator:	e-mail:sibels@uludag.edu.tr Tel:0 224 294 2066 Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Tekstil Mühendisliği Bölümü 16059-Görükle-Bursa
17	Website:	
18	Objective of the Course:	To provide knowledge on the post spinning operations
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Being able to understand the aims of post operations applied to staple and continuous yarns.
	2	Being able to understand the vacuum steaming processes applied to yarns and the importance of them.
	3	Being able to understand the vacuum steaming methods, application areas and vacuum steaming machines.
	4	Being able to analyze the vacuum steaming process parameters and the effects of them to yarn properties.
	5	Being able to describe the processes and the machines of twisting, doubling and winding
	6	Being able to describe the lubricating, waxing and coating processes
	7	Being able to describe the other processes (texturing, high bulk, high stretch, crimped, bicomponent and combine yarn production) and analyzing the yarns according to their structural characteristics.
	8	
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	10	

21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	Aims of Operations Applied to Yarns After Production. Post Spinning Operations Applied to Staple and Continuous Yarns.	
2	Vacuum Steaming Processes Applied to Yarns(Fixation, Conditioning and Relaxation) and Importance of Them.	
3	Vacuum Steaming Methods, Application Areas and Vacuum Steaming Machines.	
4	Vacuum Steaming Process Parameters and the Effects of Them to Yarn Properties.	
5	Processes and the Machines of Twisting, Doubling and Winding I	
6	Processes and the Machines of Twisting, Doubling and Winding II	
7	Yarn Lubricating and Waxing Processes	
8	Yarn Coating Processes I	
9	Yarn Coating Processes II	
10	Midterm exam	
11	Other Processes (Texturing, High Bulk, High Stretch, Crimped, Bicomponent and Combine Yarn Production) I	
12	Other Processes (Texturing, High Bulk, High Stretch, Crimped, Bicomponent and Combine Yarn Production) II	
13	Other Processes (Texturing, High Bulk, High	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	12	5.00	60.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	38.00	38.00
Others	0	0.00	0.00
Final Exams	1	40.00	40.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

Technology", Chapman and Hall,London, 1993.
2. Yavuz, A.A. "Production of Synthetic Fibers", 1st Ed.
3. Hearle J W S, Hollick L and Wilson D K, "Yarn Texturing Technology", Woodhead Publishing Ltd, UK
4. Goswami B C, Martindale J G and Scardino F.L "Textile Yarns Technology, Structure and Applications", Wiley
5. Mark H F, Atlas S M, Cernia E, "Man Made Fibre Science and Technology", 1st Ed. Vol 1, 2, 3, Science
6. Usenko V., "Pocessing of Man-Made Fibres", Mir Publishers, Moscow, 1975
Textiles, Technomic Publishing, Pennsylvania, 1995.
8. Hearle, JWS., High Performance Fibers, Woodhead Publishing, İngiltere, 2001
9. Demir, A., Tekstil Üretim Yöntemleri, İTÜ Yayınları, 2004

23 Assesment

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	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	

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	3	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK2	3	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK3	3	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK4	5	0	5	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK5	3	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK6	3	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK7	3	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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