Courses and								
	EC. Elective Course							
Type and description								
ECTS credit	1 Quality and Useful Technological Verse							
Course name	Quality and Useful Technological Yarns							
Course name in Polish	Jakość i przydatność technologiczna przędz							
Language of instruction	English							
Course level	8 PKK							
Course coordinator	Rutkowski Jacek, Ph.D. Eng.							
Course instructors							-	
Delivery methods and course duration		Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester
	Contact hours	0	0	0	15	0	0	15
	E-learning	No	No	No	No	No	No	
	Assessment criteria (weightage)				100			100
Course objective	<ol> <li>The aim of the course is to enable doctoral students to acquire knowledge and skills in the field of the issues of guality and technological suitability of varns in relation to their production technology.</li> </ol>							
Learning outcomes	1. The student is able define the basic notions connected with technologies the production of yarns							
	their quality and technological usefulness							
	2. The student is able plan the technological process of production of yarns							
	3. The student is able to compare the quality of semi-finished products and yarns and interpret the							
	results of testing the quality of semi-finished products and yarns							
A a a a a m a m é m a é h a d a	Effects: W4, U4, K1							
Assessment methods	Learning outcomes 1,2,3 - Written examination/Exam							
	The result of the examination -100%							
Proroquisitos	General Spinning Technology - 100/01 Ruilding Technology and Structure of Varies - 120000							
Course content with	_ General Opinning recinitionary - 120001, Building recinitionary and Structure of Family - 120009.							
delivery methods	Controlling the production process using sensors on line. Quality control of semi-finished and yare							
delivery methods	using the sensors installed directly on machines: card drowing frame spinningmachine and winding							
	machine. The guality control system of line. Yarn linear density, twist, varn strength indicators and the							
	elongation at break. Elasticity of the yarn. Clean and faults of yarn. Evenness of the yarn mass							
	according to Uster apparatus. Methods of assessment of varn hairiness. Qualitative assessment of							
	yarns based on Uster Statistics. ASTM patterns. Comprehensive quality management in a spinning							
	mill. Technological usefulness of classic, compact, rotor yarns, wrapped for flat products: fabrics and							
	knitted fabrics as well as fancy yarns and threads.							
Basic reference materials	<ol> <li>Jabłoński W., Jackowski T.: Technologia przędzalnictwa bawełny. WNT, W-wa 1986 r.</li> <li>Jabłoński W., Jackowski T.: Nowoczesne systemy przedzenia. Bielsko-Biała 2001 r.</li> </ol>							
Other reference materials	1. Grost	perg P., lyp	e C.: Yarn Pı	roduction. The	oretical Asp	ects. The Te	xtile Institu	ute, 1999.
	2. Klein	W.: The Te	chnology Of	Short-staple S	Spinning. Th	e Textile Inst	titute, 199	1.
	3. Lawre	ence C.A.:	Fundament	als of Spun	Yarn Tech	nology. CRS	S Press,	Boca Raton,
	London, N-Y, Washington D.C., 2003.							
Average student workload	15h							
outside classroom								
Comments								
Last update	March 2023							