Course code								
Type and description	EC – Elective Course							
ECTS credit	1							
Course name	Methods of physical, chemical and biological processing of fibers and textiles							
Course name in Polish	Metody fizycznego, chemicznego i biologicznego uszlachetniania włókien i wyrobów włókienniczych							
Language of instruction	English							
Course level	8 PRK							
Course coordinator	DSc, Eng. Zbigniew Draczynski							
Course instructors	PhD Eng Waldemar Machnowski							
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	no
	Assessment criteria (weightage)	0	0	0	100%	0	0	100%
Course objective	The aim of the course is to enable students to acquire knowledge in the field of new trends in methods of physical, chemical and biological refining of fibers and textiles							
Learning outcomes	PhD student after completing the course:							
	1. It has expanded and in-depth knowledge of modern methods of finishing fibers and textile materials							
	Can select textile materials for modification methods, can evaluate the properties of modified materials W4, U4, K1							
Assessment methods	Methods of verification of learning outcomes							
	effect presentation of the project							
	The final grade consists of:							
	Presentation - 100%							
Prerequisites								
Course content with	Learning content - project							
delivery methods	Preparation of a project for obtaining innovative fibers or textile products, taking into account the selection of modern modification techniques (physical, chemical or biological) for a textile product made from the intended raw material and form.							
Basic reference materials	Carlos Federico Jasso-Gastinel, José M. Kenny "Modification of Polymer Properties" William Andrew, 2016							

	William Andrew, 2016 "Polymer Modification: Principles, Techniques, and Applications" CRC Press, 2000
Other reference materials	
Average student workload outside classroom	15
Comments	
Last update	March 2023