



Subject card

Subject name and code	, PG_00062291						
Field of study	Mechanical and Naval Engineering						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group					
Mode of study	Part-time studies	Mode of delivery			e-learning		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marek Chodnicki					
	Teachers	dr inż. Marek Chodnicki					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	18.0	0.0	0.0	0.0	0.0	18
	E-learning hours included: 18.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM		
	Number of study hours	18	0.0	0.0	18		
Subject objectives	The purpose of the course is to familiarize students with the historical but also technical aspects of brewing.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W15] possesses a knowledge necessary to understand the ex-technical conditions of engineering activity, possesses knowledge on management, including quality management and running commercial enterprise, within the range of protection of intellectual property and patent law; knows general principles of creating and developing forms of individual entrepreneurship and basic HSE rules applicable to machine industry	The student acquires knowledge about brewing			[SW1] Assessment of factual knowledge		
	[K6_U14] is able to analyse the operation of devices and compare the construction solutions applying usage, safety, environmental, economic and legal criteria	Students will be able to identify beer styles and evaluate beer			[SU1] Assessment of task fulfilment		
[K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and innovation in the realisation of professional projects	Students learn about entrepreneurship while running a restaurant mini-brewery			[SK3] Assessment of ability to organize work			

Subject contents	Beer evaluation methods Beer styles Beer serving Beer production technology History of brewing Beer ingredients			
Prerequisites and co-requisites	No requirements			
Assessment methods and criteria	Subject passing criteria		Passing threshold	Percentage of the final grade
	pass		56.0%	100.0%
Recommended reading	Basic literature		Books about brewing	
	Supplementary literature		-	
	eResources addresses		Adresy na platformie eNauczenie: Piwowarstwo – historia i terażniejszość - Moodle ID: 34075 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34075	
Example issues/ example questions/ tasks being completed	Rate a beer Find a brewery Design a technological process			
Work placement	Not applicable			