Course name:

GENERAL FOOD TECHNOLOGY

ECTS	6	
Course status	optional	
Course final assessement/evaluation of	exam	
outcomes	exam	
Prerequisites	no prerequisites	

Main field of study: FOOD TECHNOLOGY AND HUMAN NUTRITION

Profile of study	academic
The code of studies (education level)	SI/SM (bachelor/master)
Semester of studies	winter/summer
Language of instruction	English

Course offered by:

Name of faculty offering the course	Faculty of Food Technology
Name of department offering the course	Department of Biotechnology and General Technology of Food
Course coordinator	Prof. Krzysztof Surówka PhD. DSc. Eng.

Learning outcomes of the course:

		Reference to				
Symbol of outcome	Description of learning outcome	main field of study outcomes	discipline #			
	KNOWLEDGE – student knows and/or understands:					
GFT_W1	physical, chemical, biochemical and microbiological processes occurring during food production and storage	TŻ1_W01 TŻ1_W03	RT			
GFT_W2	basic methods, techniques, technologies, tools and materials allowing for the safe production and preservation of food	TŻ1_W02 TŻ1_W08 TŻ1_W12	RT			
SKILLS – student is able to:						
GFT_U1	perform in laboratory conditions some operations and processes typical for the food industry, is able to control and describe them; can apply basic analytical methods to evaluate operations and processes	TŻ1_U04 TŻ1_U10	RT			
GFT_U2	give a mathematical form to the studied physical and chemical phenomena, present results in the form of tables, graphs and interpret them in writing or orally	TŻ1_U03	RT			
SOCIAL COMPETENCE- student is ready to:						
GFT_K1	continuous training and improvement of professional qualifications and personal development	TŻ1_K01 TŻ1_K04	RT			
GFT_K2	starting cooperation in a team, organizing work in a group	TŻ1_K02	RT			

Teaching contents:

	Biotechnological processes (e.g., enzymatic processes and fermentation)		
60	hours		
Food concentrates			
Virtual experiments in food processing – thermal processes			
Virtual experiments in food processing – chilling processes			
Freezing			
Freeze-drying			
Chemical preservation Effect of storage conditions on food quality			
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	essary to provident the final grade 60 nt of the ability to a final evaluation		

References:

Basic	 J.G. Brennan. Food Processing Handbook, Wiley-VCH, Weinheim, 2006. P.J. Fellows. Fellows' Food Processing Technology. Principles and Practice. Fifth Edition, Elsevier Science Publishing, 2022. N. N. Potter and J. H. Hotchkiss. Food Science, Chapman & Hall, New York, 1995. 		
Supplementary	1. R.P. Singh, F. Erdogdu. Virtual Experiments in Food Processing. RAR Press, Davis, CA, 2004. 2. P. Zeuthen & L. Bøgh-Sørensen. Food Preservation Techniques. Woodhead Publishing, 2003. 3. E. Hajduk et al. General Food Technology – lab exercises handbook. UR, Kraków, 2010 (in Polish).		

Structure of learning outcomes:

Discipline: nu	utrition and food technology			6	ECTS**
Structure of	student activities:				
Contact hour	rs	94	hours	3.8	ECTS**
including:	lectures	30	hours		
	classes and seminars	60	hours		
	consultations	2	hours		
	participation in research	0	hours		
	mandatory trainerships	0	hours		
	participation in examinations	2	hours		
e-learning		0	hours		ECTS**
student own	work	56	hours	2.2	ECTS**

^{**} stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes

[#] academic discipline code: RT nutrition and food technology