

Subject card

	Paris historia de la concessor							
Subject name and code	Basic biotechology, PG_00038535							
Field of study	Chemical Technology							
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies		Subject group		Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery		at the university			
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Pharmaceutical Technology and Biochemistry -> Faculty of Chemistry							
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Piotr Szweda						
	Teachers		dr hab. inż. Piotr Szweda dr inż. Karolina Matejczuk					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Seminar		SUM
of instruction	Number of study hours	30.0	0.0	15.0	0.0		0.0	45
	E-learning hours incli	1		1				
Learning activity and number of study hours	Learning activity	Participation in classes include plan			udy	SUM		
	Number of study hours	45		5.0		25.0		75
Subject objectives	Presenting students the possibilities of application och achievemnets of biotechnology in medicine, environment protection and agriculture.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K7_U08		The student has systematic knowledge of the possibilities of using biotechnology in various branches of industry, medicine and environmental protection. The student is able to assess the positive and negative consequences of using achievements in the field of biotechnology and related sciences.			[SU2] Assessment of ability to analyse information		
			and environm student is able positive and n consequences achievements biotechnology	ental protection to assess the tegative to of using to in the field of				
	K7_W07		and environm student is able positive and n consequence: achievements biotechnology sciences. The student k biotechnologie in industry to	ental protection e to assess the legative s of using in the field of and related nows the basic cal processes obtain specific dicinal products	c used food	[SW1] knowle	Assessment dge	of factual
Subject contents	K7_W07 Historical view		and environm student is able positive and n consequence: achievements biotechnology sciences. The student k biotechnologic in industry to products, med	ental protection e to assess the legative s of using in the field of and related nows the basic cal processes obtain specific dicinal products	c used food			of factual
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Subject contents	Historical view		and environm student is able positive and n consequence: achievements biotechnology sciences. The student k biotechnologic in industry to products, med biochemicals.	ental protection e to assess the legative s of using in the field of and related nows the basic cal processes i obtain specific dicinal products	c used food s or	knowle		of factual
Subject contents	Historical view Subject and scope of	he field of cell b	and environm student is able positive and n consequence: achievements biotechnology sciences. The student k biotechnologic in industry to products, me biochemicals.	ental protection e to assess the legative s of using in the field of and related nows the basic cal processes obtain specific dicinal products genetics of mice	c used food s or	knowle		of factual
Subject contents	Historical view Subject and scope of Basic knowledge in the	he field of cell b	and environm student is able positive and n consequence: achievements biotechnology sciences. The student k biotechnologic in industry to products, me biochemicals.	ental protection e to assess the legative s of using in the field of and related nows the basic cal processes obtain specific dicinal products genetics of mice	c used food s or	knowle		of factual
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Subject contents Prerequisites and co-requisites	Historical view Subject and scope of Basic knowledge in the Use of biotechnot Receiving biofuels GM crops Biometalurgy and bio	he field of cell be belong in environmental belongs in environmental belongs in the first section belongs in the first section in the f	and environm student is able positive and n consequence: achievements biotechnology sciences. The student k biotechnologic in industry to products, met biochemicals.	ental protection to assess the tegative to assess the tegative to discovere the to and related to and related to the to and related to any related to an	cused food s or croorgal	knowle	des, medicine	

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	labs	60.0%	20.0%			
	lecture	60.0%	80.0%			
Recommended reading	Basic literature	Podstawy biotechnologii przemysłowej, (BednarskiW., Fiedurko J., red.) WNT Warszawa 2007.Chmiel A., Biotechnologia, PWN Warszawa, 1991.				
	Supplementary literature	Biotechnologia żywności, (Bednarski W., Reps A. red.) WNT Warszawa, 2001;				
	Podstawy biologii komórki, PWN Warszawa, 2005					
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/	Differences in cell structure of eukaryotes and prokaryotes					
example questions/ tasks being completed	Explain the concept of BZT5					
	Benefits and risks of growing GMOs					
	Preparation, construction and advantages and disadvantages of biopolymers / biopesticides					
Work placement	Not applicable					

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