

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

STATE BIOTECHNOLOGICAL UNIVERSITY

EDUCATIONAL AND PROFESSIONAL PROGRAMME «FOOD TECHNOLOGIES IN THE RESTAURANT INDUSTRY»

HIGHER EDUCATION LEVEL – First

DEGREE OF HIGHER EDUCATION - Bachelor's degree

SPECIALITY - G13 (181) Food technologies

AREA OF KNOWLEDGE – G Engineering, production and construction

(18 Production and technology)

EDUCATION QUALIFICATION – Bachelor's degree in food technology specialising in food technology in the restaurant industry

APPROVED BY THE ACADEMIC BOARD of the State Biotechnological University protocol № « » April_2025 implemented from «01» September 2025

Acting Rector Andriy Kudryashov

Kharkiv - 2025

PREFACE

Educational and Professional Programme (EPP) «Food Technologies in the Restaurant Industry» for training of Bachelor's degree students in the speciality G 13 (181) "Food Technologies" of the field of knowledge 18 G "Engineering, Production and Construction" (18 "Production and Technology") is a document that defines the goals of educational and professional training, the content of training, the place of a specialist in the structure of the national sector of the state economy, requirements for his/her competencies and other socially important properties and qualities.

DEVELOPED by the Department of Food Technologies in the Restaurant Industry of the State Biotechnological University

APPROVED by the Academic Board of the State Biotechnological University protocol № « » April 2025

IMPLEMENTED from «01» September 2025

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1. PROFILE OF THE EDUCATIONAL AND PROFESSIONAL PROGRAMME IN THE SPECIALITY 181 "FOOD TECHNOLOGY"

1	. General description
Full name of the higher edu-	State Biotechnological University
cation institution and structural department	Faculty of Processing and Food Production
Higher education degree	Bachelor's degree
	Bachelor's degree in food technology with a specialisa-
	tion in food technology in the restaurant industry
Official name of the educational programme	Food technology in the restaurant industry
Type of diploma and duration of the educational programme	Bachelor's degree, duration of study 3 years 10 months. The scope of the bachelor's degree programme is 240 ECTS credits. At least 50% of the curriculum is aimed at ensuring general and special (professional) competencies in the speciality defined by the Higher Education Standard.
Accreditation status	Certificate of accreditation UD №21015708 dated 19 November 2021
Cycle / level	NQS Ukraine – 6 level, FQ-EHEA – first cycle, EQF-LLL – 6 level
Background.	A person has the right to obtain the first (bachelor's) level of higher education provided that he/she has a complete general secondary education and a junior bachelor's (specialist's) diploma, which is confirmed by a state-issued document issued by a higher education institution of the I-II accreditation level). Admission conditions are determined by the "Rules of Admission to the State Biotechnological University" approved by the Academic Board
Languages of instruction	Ukrainian, English
The validity of the educa-	Until 1 July 2026.
tional programme	
Internet address of the per-	http://btu.kharkov.ua/pro-universitet/osvitnya-
manent placement of the de-	diyalnist/osvitni-programi/
scription of the educational	
programme	
2. The purpose of the	ne educational and professional programme

2. The purpose of the educational and professional programme

Training of highly educated specialists of a new formation, competitive in the domestic and international labour market, who have basic skills, general and professional competencies necessary to solve simple problems and understand the processes taking place in the restaurant industry.

3. Description of th	e educational and professional programme
Subject area (field of know-	
ledge, speciality)	Food technology
ledge, speciality) Description of the subject area	The objects of study and activity of bachelor's in food technology are technological processes and food products. The aims of the study are to develop the competences required for professional activities in the field of production and management of food quality and safety. Theoretical content of the subject area: - basic concepts and principles of design and functioning of the restaurant and food industry; - knowledge of food quality and safety management systems, the essence and parameters of technological processes of food production, principles of developing new and improving existing food technologies; - rules for applying the current legislative and regulatory base and a system for analysing marketing activities in production conditions. Methods, techniques and technologies (to be mastered by the higher education student for practical application): a complex of organisational and technological measures to improve the efficiency of food industry enterprises, methods and techniques for quality control and food safety, planning and calculation of the need for material, financial and labour resources.
Orientation of the educa-	Tools and equipment: modern technological and laboratory equipment and devices, computer hardware and software. Educational and professional
tional and professional programme	•
Focus of the educational and professional programme	The educational and professional programme is aimed at acquiring knowledge and skills in the restaurant and food industry and provides opportunities for further education and career development (master's programmes). The programme allows students to gain knowledge of the basic concepts and principles of design and operation of food industry enterprises and restaurant establishments, to ensure the organisation and control of food quality and safety, the essence of technological processes of food production, the principles of developing new and improving existing technologies for the production of food products.

Programme features	The educational and professional programme provides theoretical and practical training in the restaurant and food industry, the possibility of international internships, the use of modern technological and laboratory equipment, and the involvement of specialists in the educational process						
4 Recruitment of g	raduates and further education						
Employability	Graduates are able to work professionally at industry enterprises, in the restaurant industry and in industry related companies of various types of activities and forms of ownership in accordance with the requirements of the labour market. Further continuation of education at the second (master's) level of higher education in any field of knowledge, as well as advanced training and additional postgraduate education.						
	5 Teaching and assessment						
Teaching and learning	Student-centred (teacher-led and problem-based) learning, which is conducted in the form of lectures, seminars, workshops, consultations, coursework, self-study, based on textbooks, manuals, abstracts of periodicals, the use of the Internet, learning in the Moodle system, self-study, training, preparation of qualification work (project).						
Assessment	Assessment is based on the 100-point ECTS scale, the national 4-point scale ("excellent", "good", "pass", "unsatisfactory") and verbal ("pass", "fail") systems. Types of control: current and final (exam, test, practice reports, defence of coursework/projects, defence of qualification work). 6 Programme competencies						
	1						
Integral competence (IC)	The ability to solve complex specialized tasks and practical problems of technical and technological nature which are characterized by the complexity and uncertainty under production conditions of food industry enterprises, restaurant business enterprises and during training process, which involves the application of theoretical foundations and methods of the food technologies.						
General competences (GC)	C01. Knowledge and understanding of the subject area and professional activity. C02. Ability to learn and master modern knowledge. C03. Ability to show initiative and entrepreneurship. C04. Skills in using information and communication						

technologies.

C05. Ability to search and analyze information from various sources.

C06. Ability to assess and provide the quality of the performed work.

C07. Ability to work in a team.

C08. Ability to work autonomously.

C09. Skills of performing safe activities.

C10. The desire to preserve the environment.

C11. Ability to communicate in the state language both orally and in writing.

C12. Ability to communicate in a foreign language.

C13. Ability to realize one's rights and responsibilities as a member of society, to be aware of the values of civil society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.

C14. Ability to preserve and multiply moral, cultural, scientific values and achievements of society on the base of understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for healthy lifestyle providing.

Special (professional, subject) competences (SC)

C15. Ability to introduce food technology into production on the base of understanding the essence of the food raw material main components transformations during the technological process.

C16. Ability to manage technological processes with technical, information and software use.

C17. Ability to organize and conduct quality and safety control of raw material, semi-finished products and food products with modern methods use.

C18. Ability to provide the quality and safety of products on the base of relevant standards and within the framework of food safety management systems during their production and sale.

C19. Ability to develop new and improve existing food technologies with taking into account the principles of rational nutrition, resource saving and technological processes intensification.

C20. Ability to draw up business documentation and conduct technological and economic calculations.

C21. Ability to select and operate technological equip-

ment, to draw up equipment and technological schemes for the food products manufacturing.

C22. Ability to conduct research in the conditions of specialized laboratories for applied problems solving.

C23. Ability to design new or modernize existing productions (production sites).

C24. Ability to develop projects of regulatory documentation with current legal framework and reference materials use.

C25. Ability to develop and implement effective methods of work organization, to be responsible for the professional development of individuals and/or individuals groups.

C26. Ability to form a communication strategy in the field of food technology and the restaurant industry, to conduct a professional discussion.

C27. Ability to increase production efficiency, implement modern management systems.

7 Programme learning outcomes (PLO)

PLO01. To know and understand the basic concepts and trends of the restaurant industry, theoretical and practical problems in the field of food technologies.

PLO02. To show creative initiative and improve your professional level through continuing education and self-education.

PLO03. Applying information and communication technologies for professional activity information support and conducting applied research in the restaurant industry.

PLO04. Searching and processing scientific and technical information from various sources and use it for solving specific technical and technological problems in the restaurant industry.

PLO05. To know the scientific basis of food production technological processes and patterns of physical and chemical, biochemical and microbiological transformations of the main components of food raw material during technological processing.

PLO06. To know and understand the main influencing factors on the synthesis and metabolism of food components and the role of nutrients in human nutrition.

PLO07. Organizing, controlling and managing technological processes of food processing into food products, including automation technical means and control systems use.

PLO08. Developing or improving high nutritional value food products technologies with taking into account global trends of the industry development.

PLO09. Developing technical specifications projects and technological instructions for food products.

PLO10. Implementing systems of quality management and food products safety.

PLO11. Determining the compliance of quality indices of raw materials, semi-finished products and finished products with regulatory requirements using mod-

ern methods of analysis (or control).

PLO12. To be able to design new and modernize existing enterprises, restaurants, shops, production sites with use computer-aided design systems and software.

PLO13. Choosing modern equipment for technical outfit of new or reconstructed enterprises (shops), restaurants, know the principles and rules of its operation, making hardware and technological production schemes of designed range food products.

PLO14. Increasing production efficiency by resource-saving and competitive technologies introducing, analyzing the state and dynamics of food products demand.

PLO15. Introducing modern management systems of the restaurant industry.

PLO16. Following safety rules and taking technical and organizational measures for safe working conditions organization during production activity.

PLO17. Waste disposal process organization and ecological safety of production providing.

PLO18. To have basic skills of conducting theoretical and / or experimental scientific research which are performed individually and / or as part of a scientific group.

PLO 19. Work efficiency increasing by combining independent and team work.

PLO20. Drawing up business documents in the state language.

PLO21. Presenting activity results in the field of food technologies (ideas, problems and their solutions, personal experience, etc.) to restaurant industry specialists and the general public.

PLO22. Carrying out business communications in the professional sphere in Ukrainian and foreign languages.

PLO23. To have the skills of work organizing the restaurant industry individual production units and their activity coordinating.

PLO24. Carrying out technological, technical, economic calculations under food products development and promotion to the consumer market; material resources accounting.

PLO25. To show creative initiative on the issues of economy market transformation.

PLO26. Forming and defending own worldview and public position, acting socially responsibly and consciously.

PLO27. Preserving and increasing the achievements and values of society, leading a healthy lifestyle.

8 Reso	ource support for the programme
Human resources support	The staffing of the educational and professional pro-
	gramme meets the licensing requirements.
	The percentage of teachers who have an academic title
	and a scientific degree is at least 75%. The teaching staff
	undergoes advanced training every 5 years with a total
	volume of at least 6 ECTS credits (180 hours)

M-4:-1 - 1 / 1 * 1	The 4-4-1 C41 : 47 004 446 50 2								
Material and technical	The total area of the university is 47,994,446.53 m ²								
support	(including: buildings, structures, grounds - 342,169.53								
	m ² ; land, arable land, pastures, hayfields, forest land -								
	47,312,277.00 m ² ; water bodies, swamps - 340,000.00								
	m ²), the area of the university used for the educational								
	process is 47,856,166.32 m ² (including: buildings, con-								
	structions - 203,889.32 m ² ; lands, arable land, pastures,								
	hayfields, forest lands - 47,312,277.00 m ² ; water bod-								
	ies, swamps - 340,000.00 m ²).								
	The total area occupied by the Department of Food								
	Technologies in the Restaurant Industry is 626.3 m ²								
	To ensure the educational process, the department's								
	specialised laboratories are used: laboratory of theor-								
	etical food technologies, laboratory of rheological re-								
	search, laboratory of food product development and								
	research, laboratory of information and communication								
	technologies, laboratory of sensory evaluation of food								
	products.								
	The dormitory provision for higher education students								
	is 100%.								
	The IT training is provided at the Centre of New In-								
	formation Technologies. Classrooms are equipped with								
	modern machinery, which is integrated into a local net-								
	work and connected to the INTERNET.								
	School buildings have appropriate conditions for cater-								
	ing for employees and students.								
	Students have free wireless access to the Internet. The level of multimedia technical againment is sufficient.								
	The level of multimedia technical equipment is sufficient for the educational process.								
Information, training and	- official website: http://btu.kharkov.ua/;								
methodological support	- wireless Internet access;								
memoustegrear support	- unlimited access to the Internet;								
	- scientific library, reading rooms;								
	- virtual learning environment Moodle;								
	- repository.								
	All educational components have full information and								
	methodological support, including library collections								
	and electronic resources.								
All educational components have full information methodological support, including library contains and electronic resources. 9 Academic mobility									
National mobility	All students have the opportunity to attend individual								
	courses in partner universities within the framework of								
	national academic mobility, study for a semester with								
	further recognition of the results and credit transfer.								
	The principles of academic mobility are determined by								
	the legislation of Ukraine.								

	The possibility of studying in several specialities or in several universities at the same time is determined by							
	the legislation of Ukraine.							
International mobility	The principles of international academic mobility are							
	determined by the legislation of Ukraine, other coun-							
	tries and agreements between states.							
	Every student has the opportunity to get their cred-							
	its/terms of study recognised.							
Training of foreign higher	The programme provides training opportunities for for-							
education students	eign citizens							

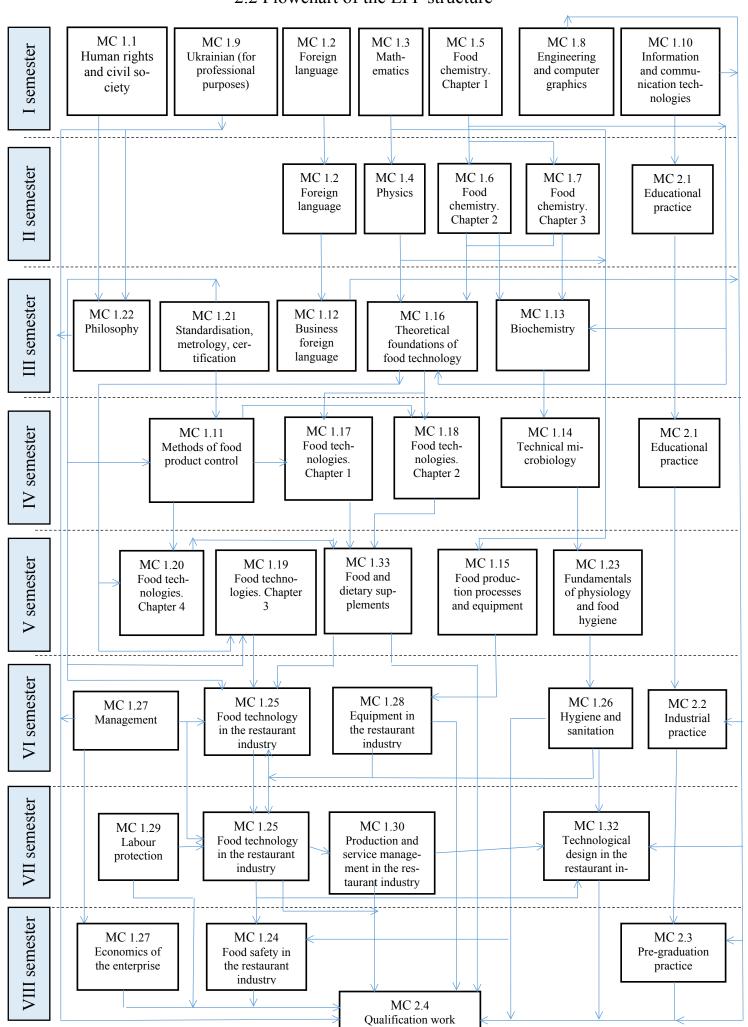
2 LIST OF COMPONENTS OF THE EDUCATIONAL AND PROFESSIONAL PROGRAMME

2.1 List of components of the EPP

Code	Components of the educational and	Credit	Final control
	professional programme (academic	score	form
	disciplines, course projects, intern-		
	ships, qualification work)		
	ie EPP		
MC 1.1	Ukrainian (for professional purposes)	3	credit
MC 1.2	Foreign language	6	credit
MC 1.3	Mathematics	4	exam
MC 1.4	Physics	4	exam
MC 1.5	Food chemistry. Chapter 1	4	exam
MC 1.6	Food chemistry. Chapter 2	4	277240
MC 1.7	Food chemistry. Chapter 3	4	exam
MC 1.8	Engineering and computer graphics	3	credit
MC 1.9	Professional language and business		credit
	communication	3	
MC 1.10	Information and communication tech-	4	ovom
	nologies	4	exam
MC 1.11	Methods of food product control	3	credit
MC 1.12	Business foreign language	4	credit differential
MC 1.13	Biochemistry	4	exam
MC 1.14	Technical microbiology	4	exam
MC 1.15	Food production processes and equip-	5	OX 040
	ment	3	exam
MC 1.16	Theoretical foundations of food tech-	8	ovom
	nology	0	exam
MC 1.17	Food technologies. Chapter 1	4	exam
MC 1.18	Food technologies. Chapter 2	4	exam
MC 1.19	Food technologies. Chapter 3	4	exam, CP

MC 1.20	Food technologies. Chapter 4	4	exam
MC 1.21	Standardisation, metrology, certific-	4	277.040
	ation	4	exam
MC 1.22	Philosophy	4	credit
MC 1.23	Fundamentals of physiology and	3	credit
	food hygiene	3	Credit
MC 1.24	Food safety in the restaurant industry	5	exam
MC 1.25	Food technology in the restaurant in-	14	exam, CP
	dustry	14	exam, Cr
MC 1.26	Hygiene and sanitation	3	credit
MC 1.27	Economics of enterprises	4	exam
MC 1.28	Equipment in the restaurant industry	5	exam
MC 1.29	Labour protection in the industry	3	credit
MC 1.30	Production and service management	5	exam
	in the restaurant industry		CXaIII
MC 1.31	Management	3	credit
MC 1.32	Technological design in the restaur-	6	exam, CP
	ant industry	0	exam, Ci
MC 1.33	Food and dietary supplements	5	exam
MC 2.1	Educational practice	12	credits
MC 2.2	Industrial practice	6	credit
MC 2.3	Pre-graduation practice	3	credit differential
MC 2.4	Qualification work (project)	12	EC certification
The total amo	unt of mandatory components:	180	
	Selected components of the	EPP	
	of selected components:	60	
	UNT OF THE EDUCATIONAL AND	240	
PROFESSION	AL PROGRAMME		

2.2 Flowchart of the EPP structure



3 FORM OF ATTESTATION OF HIGHER EDUCATION STUDENTS

Forms of attestation of higher	The final attestation is carried out on the basis of the
education students	assessment of learning outcomes and the level of com-
	petencies, this educational and professional pro-
	gramme in the form of a public defence of the qual-
	ification work.
Requirements for qualification	The qualification work involves the individual solu-
work and the procedure for its	tion of a specialised problem of a technological,
defence	design or research character.
	Academic plagiarism, falsification and cheating are
	not allowed in the qualification paper. The procedure
	for checking for plagiarism is determined by SBTU
	and is carried out through the Strikeplagiarism soft-
	ware.
	The qualification paper must be published in the
	SBTU repository. The procedure and requirements
	for publication are determined by the SBTU.

4. REQUIREMENTS FOR THE AVAILABILITY OF AN INTERNAL QUALITY ASSURANCE SYSTEM FOR HIGHER EDUCATION

The system of internal quality assurance of educational activities and the quality of higher education (internal quality assurance system) at the State Biotechnological University provides for the implementation of the following procedures and measures provided for by the Law of Ukraine " About Higher Education":

- 1) defining the principles and procedures for ensuring the quality of higher education;
 - 2) monitoring and periodic review of educational and professional programmes;
- 3) annual evaluation of students, research and teaching staff of the university and regular publication of the results of such evaluations on the official website of the university, on information stands, etc;
 - 4) providing advanced training for research and teaching staff;
- 5) ensuring the availability of the necessary resources for the educational process, including individual work of students, for each educational programme;
- 6) ensuring the availability of information systems for effective management of the educational process;
- 7) ensuring publicity of information about educational programmes, degrees of higher education and qualifications;
- 8) ensuring an effective system for preventing and detecting academic plagiarism in the scientific papers of university employees and students;
 - 9) other procedures and measures.

The university's system for ensuring the quality of educational activities and the quality of higher education (internal quality assurance system) is evaluated by the National Agency for Quality Assurance in Higher Education or its accredited independent institutions for evaluation and quality assurance of higher education for its compliance with the requirements of the quality assurance system of higher education approved by the National Agency for Quality Assurance in Higher Education and international quality assurance standards and recommendations.

Matrix of compliance of the competences defined by the standard with the descriptors of the National Qualifications System (NQS) of Ukraine

Classification of competences	Know-	Skills	Communic-	Autonomy and
according to the National Qualifications System of Ukraine	ledge		ation	responsibility
General competences				
C01. Knowledge and understanding of the subject area and professional activity.	+			+
C02. Ability to learn and master modern knowledge.	+			
C03. Ability to show initiative and entrepreneurship.		+		+
C04. Skills in using information and communication technologies.		+	+	
C05. Ability to search and analyze information from various sources.	+	+	+	
C06. Ability to assess and provide the quality of the performed work.	+	+		+
C07. Ability to work in a team.			+	
C08. Ability to work autonomously.	+	+	+	+
C09. Skills of performing safe activities.				+
C10. The desire to preserve the environment.	+	+		+
C11. Ability to communicate in the state language both orally and in writing.		+	+	
C12. Ability to communicate in a foreign language.		+	+	
C13. Ability to realize one's rights and responsibilities as a member of society, to be aware of the values of civil society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.	+			+
C14. Ability to preserve and multiply moral, cultural, scientific values and achievements of society on the base of understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for healthy lifestyle providing.		+		+

C15. Ability to introduce food technology into production on the base of understanding the essence of the food raw material main components transformations during the technological process.	+	+		+
C16. Ability to manage technological processes with technical, information and software use.	+	+	+	+
C17. Ability to organize and conduct quality and safety control of raw material, semi-finished products and food products with modern methods use.	+	+		+
C18. Ability to provide the quality and safety of products on the base of relevant standards and within the framework of food safety management systems during their production and sale.	l	+		+
C19. Ability to develop new and improve existing food technologies with taking into account the principles of rational nutrition, resource saving and technological processes intensification.	+	+	+	+
C20. Ability to draw up business documentation and conduct technological and economic calculations.	+	+		+
C21. Ability to select and operate technological equipment, to draw up equipment and technological schemes for the food products manufacturing.	+	+		
C22. Ability to conduct research in the conditions of specialized laboratories for applied problems solving.	+	+	+	+
C23. Ability to design new or modernize existing productions (production sites).	+	+		+
C24. Ability to develop projects of regulatory documentation with current legal framework and reference materials use.	+	+	+	
C25. Ability to develop and implement effective methods of work organization, to be responsible for the professional development of individuals and/or individuals groups.	+	+	+	+
C26. Ability to form a communication strategy in the field of food technology and the restaurant industry, to conduct a professional discussion.		+	+	
C27. Ability to increase production efficiency, implement modern management systems.	+	+	+	+

Table 2
Matrix of correspondence between learning outcomes and competences defined by the EPP

Programme learning	Integ-	Competences																										
outcomes	ral		General competences											S	pecia	al (p	rofe	ssioi	nal)	com	pete	nces						
		C01	C02	C03	C04	C05	90D	C07	80D	600	C010	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020	C021	C022	C023	C024	C025	C026	C027
PLO01. To know and understand the basic concepts and trends of the restaurant industry, theoretical and practical problems in the field of food technologies.	+	+																										
PLO02. To show creative initiative and improve your professional level through continuing education and self-education.	+		+	+																								
PLO03. Applying information and communication technologies for professional activity information support and conducting applied research in the restaurant industry.	+				+																		+					
PLO04. Searching and processing scientific and technical information from various sources and use it for solving specific technical and technological problems in the restaurant industry.	+						+																					
PLO05. To know the scientific basis of food production technological processes	+															+												

and patterns of physical and																		
chemical, biochemical and																		
microbiological transforma-																		
tions of the main components																		
of food raw material during																		
technological processing.																		
PLO06. To know and under-	+												+					
stand the main influencing																		
factors on the synthesis and																		
metabolism of food compon-																		
ents and the role of nutrients																		
in human nutrition.																		
PLO07. Organizing, con-	+								+	+								\Box
trolling and managing tech-																		
nological processes of food																		
processing into food products,																		
including automation tech-																		
nical means and control sys-																		
tems use.																		
PLO08. Developing or im-	+												+					
proving high nutritional value																		
food products technologies																		
with taking into account																		
global trends of the industry																		
development.																		
PLO09. Developing technical	+													+		+		
specifications projects and																		
technological instructions for																		
food products.																		
PLO10. Implementing sys-	+			+								+						\Box
tems of quality management																		
and food products safety.																		
PLO11. Determining the	+										+							\neg
compliance of quality indices																		
of raw materials, semi-fin-																		

			, ,	 	 		 		 	 		 	,		 	
ished products and finished											1					
products with regulatory re-											1					
quirements using modern																
methods of analysis (or con-																
trol).																
PLO12. To be able to design	+											+		+		
new and modernize existing																
enterprises, restaurants,																
shops, production sites with																
use computer-aided design																
systems and software.																
2	+															
PLO13. Choosing modern	T											+				
equipment for technical outfit																
of new or reconstructed en-																
terprises (shops), restaurants,																
know the principles and rules																
of its operation, making hard-																
ware and technological pro-																
duction schemes of designed																
range food products.								\rightarrow								
PLO14. Increasing produc-	+															+
tion efficiency by resource-																
saving and competitive tech-																
nologies introducing, analyz-																
ing the state and dynamics of																
food products demand.																
PLO15. Introducing modern	+															+
management systems of the																
restaurant industry.																
PLO16. Following safety	+				+										+	
rules and taking technical and																
organizational measures for																
safe working conditions or-																
ganization during production											1					
activity.											1					
activity.					 	\perp										

[1			 	1 1		 		 			$\overline{}$
PLO17. Waste disposal pro-	+					+											
cess organization and ecolo-																	
gical safety of production																	
providing.																	
PLO18. To have basic skills	+			+	+						+						
of conducting theoretical and																	
/ or experimental scientific																	
research which are performed																	
individually and / or as part																	
of a scientific group.																	
PLO 19. Work efficiency in-	+			+	+												
creasing by combining inde-																	
pendent and team work.																	
PLO20. Drawing up business	+						+										
documents in the state lan-																	
guage.																	
PLO21. Presenting activity	+						+									+	
results in the field of food																	
technologies (ideas, problems																	
and their solutions, personal																	
experience, etc.) to restaurant																	
industry specialists and the																	
general public.																	
PLO22. Carrying out busi-	+							+									
ness communications in the																	
professional sphere in Ukrain-																	
ian and foreign languages.																	
PLO23. To have the skills of	+														+		
work organizing the restaur-																	
ant industry individual pro-																	
duction units and their activ-																	
ity coordinating.																	
PLO24. Carrying out techno-	+											+					+
logical, technical, economic																	
calculations under food																	
carcarations and nou												 		 			

products development and promotion to the consumer market; material resources														
accounting. PLO25. To show creative initiative on the issues of economy market transformation.	+		+											+
PLO26. Forming and defending own worldview and public position, acting socially responsibly and consciously.	+						+							
PLO27. Preserving and increasing the achievements and values of society, leading a healthy lifestyle.	+							+						

Matrix of ensuring the programme learning outcomes (PLO) with the relevant components of the educational and professional programme

Code	PL001	PLO02	PLO03	PLO04	PLO05	90OTd	PLO07	PLO08	PLO09	PLO10	PL011	PL012	PL013	PLO14	PL015	PLO16	PLO17	PLO18	PLO19	PLO20	PLO21	PLO22	PLO23	PLO24	PLO25	PLO26	PLO27
	PL	ЬГ	PL																								
											No	rmati	ve co	mpon	ents												
MC 1.1		+																								+	+
MC 1.2																						+					
MC 1.3				+														+									
MC 1.4																		+									
MC 1.5				+		+		+										+									
MC 1.6				+		+		+										+									
MC 1.7				+		+		+										+									
MC 1.8			+	+		+		+				+	+														
MC 1.9																				+		+					
MC			+																		+						
1.10																											
MC							+				+																
1.11																											
MC		+																				+					
1.12 MC					+		+																				
1.13																											
MC					+		+																				
1.14					'		'																				
MC					+		+					+	+														
1.15					-		-					-															
MC	+				+	+	+	+											+								
1.16																											
MC	+				+	+	+	+			+			+			+										
1.17																											

MC	+				+	+	+	+			+			+			+										
1.18																											
MC	+		+		+	+						+				+				+							
1.19																											
OK 1.20	+				+	+	+	+			+			+			+										
MC				+					+	+	+																.
1.21																											
MC		+																								+	+
1.22																											
MC						+		+																			+
1.23																											
MC	+				+		+			+	+					+	+										ı
1.24																											
MC	+		+	+	+	+		+			+			+				+						+			.
1.25 MC																			+								+
1.26																											,
MC																								+	+		
1.27																								_			ı
MC				+								+	+											+			
1.28				'								'	'											'			ı
MC																+											
1.29																											.
MC	+														+	+	+						+	+			
1.30																											
MC															+								+				
1.31																											.
MC				+								+	+		+						+						
1.32																											
MC	+				+	+		+										+									
1.33																											
MC 2.1		+	+													+			+				+				
MC 2.2		+	+													+			+				+				
MC 2.3		+	+													+			+				+				
MC 2.4			+	+	+		+		+			+	+					+	+		+	+		+	+	+	

Table 4
Matrix of providing programme competences
with relevant components of the educational and professional programme

							Gene	eral co	mpet	ences							5	Specia	l (pro	fessio	nal, sı	ubject	c) com	peten	ces			
Code	IC	GC01	GC02	GC03	GC04	GC05	90DD	GC07	GC08	GC09	GC10	GC11	GC12	GC13	GC14	SC15	SC16	SC17	SC18	SC19	SC20	SC21	SC22	SC23	SC24	SC25	SC26	SC27
MC 1.1	+	+		+	+																	+						
MC	'	'		'	<u>'</u>																							
1.2	+	+	+				+															+	+					
MC 1.3	+	+	+	+		+	+		+	+		+		+					+				+					
MC						<u> </u>	<u> </u>		<u> </u>	· ·													<u> </u>					
1.4	+	+	+	+		+	+		+	+		+	+	+			+						+	+				
MC																												
1.5	+	+	+	+		+	+		+		+		+	+	+		+					+	+		+	+		
MC																												
1.6	+	+	+	+		+	+		+		+		+	+	+		+					+	+		+	+		
MC																												
1.7	+	+	+	+		+	+		+		+		+	+	+		+					+	+		+	+		
MC																												
1.8	+	+		+	+		+		+			+									+		+					
MC																												
1.9	+	+	+				+															+	+					-
MC			_									_																
1.10	+	+	+		+							+							+					+				
MC 1.11	+	+	+	+	+	+	+	+							+	+	+								+			
MC	'	<u>'</u>	'	'	<u>'</u>	<u>'</u>	'	'							'	'	'								'			
1.12	+	+	+				+															+	+					

MC																												
1.13	+	+		+			+	+						+		+	+						+					
MC																												
1.14	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+			+	+				
MC																												
1.15	+	+	+	+	+	+	+	+					+	+		+	+	+		+	+		+	+	+		+	+
MC																												
1.16	+	+					+				+			+		+										+		
MC																												
1.17	+	+	+	+	+	+	+										+			+			+			+		
MC																												
1.18	+	+	+	+	+	+	+										+			+			+			+		
MC 1.19	+	١.	+		+												+	+	+		+							
OK	+	+	T		+											+	+	+			+							\vdash
1.20	+	+	+	+	+	+	+										+			+			+			+		
MC				•	•	<u> </u>											<u> </u>						•					
1.21	+	+	+			+	+							+	+		+	+				+						
MC																												
1.22	+	+		+		+																	+					
MC																												
1.23	+	+		+		+	+	+	+					+														
MC																												
1.24	+						+	+		+							+	+	+				+					
MC																												
1.25	+	+	+		+	+										+	+			+		+	+		+			
MC	,					.	,		,																			
1.26 MC	+	+		+		+	+	+	+					+														\vdash
1.27	+	+	+	+	+	+	+			+	+			+	+				+	+		+	+	+		+	+	
MC	<u>'</u>	<u>'</u>	'	•	'	'	'			'	'			'	•				'	<u>'</u>		<u> </u>	'	'		<u>'</u>	'	\vdash
1.28	+	+	+	+	+	+	+				+						+			+		+	+					
MC																												
1.29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
MC	+	+	+	+			+										+									+		+

1.30																												
MC	+	+	+	+			+	+	+								+											+
1.31																												
MC																												
1.32	+	+	+	+	+	+											+			+		+	+					
MC	+	+	+	+			+			+						+	+			+								
1.33																												
MC																												
2.1	+				+	+	+	+	+	+	+	+				+	+	+		+			+			+		+
MC																												
2.2	+		+	+	+	+	+	+	+	+	+	+				+		+	+	+	+	+	+	+	+	+		+
MC	+	+														+	+	+		+	+	+	+					
2.3			+	+	+	+	+	+	+	+	+	+												+	+	+	+	+
MC																												
2.4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+