Ministry of Education and Science of Ukraine Sumy National Agrarian University Faculty of Food Technology Department of Technology of Nutrition

Syllabus of an educational component

EC 4 FOOD QUALITY MANAGEMENT <u>Mandatory</u>

Implemented within the framework of the educational program **Food Technology** in specialty 181 - **Food Technology**

at the second (master's) level of higher education

Stepanova T.M., PhD, Associate Professor Developer: (nignne) Reviewed, Protocol № 19 by «31» May 2024. approved and ratified at the meeting the Department Head of the Department Food Technology Approved: Guarantor of educational program ерцевой Ф.В. (name) Dean of the faculty, where the educational program is implemented Bolhova N.V. (signature) (name) Review of the work program (attached) provided: (nam (name) Methodologist of the Department of Educational Quality, Licensing and Accreditation (signature) Registered in the electronic database: date: 02.07.

Information on reviewing the work program (syllabus):

A andomia year	The number of the	The changes have been reviewed and approved			
Academic year in which changes are made	appendix to the work program with a description of the changes	Date and number of the Protocol of the meeting of the department	Head of Department	Guarantor of the educational program	

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	Name of educational component	EC 4 FOOD QUALITY MANAGEMENT							
2.	Faculty/Department	Food technology/nutrition technology							
3.	Status of EP	Mandatory							
4.	EK can be offered for	Educa	tional a	nd profes	sional prog	ram Food T	echnology	y	
	(filled for selective EK))	specia	lty 181	Food Tec	chnology				
5.	Level NQF	7 leve	1						
6.	Semester and duration of	1 sem	ester, 1-	15 week					
	study								
7.	Credits ECTS	5							
8.	The total volume of hours	150							
	and their distribution								
9.				Contac	t work (clas	sses)		Indepen	dent work
		Lec	ture	Practise	/Seminars	La	b		
		Full-	Exter	Full-	Exter	Full-time	Exter	Full-	Exter
		time	nal	time	nal		nal	time	nal
		14	-	-	2	60	-	76	148
10.	Language of education	Englis	sh	•	•		•		•
11.	Teacher / Coordinator of	Stepa	nova T.I	M.					
	the educational componen								
12.	Contacts	Name	: Stepan	ova Tetia	ına				
		Positi	on: Asso	ociate Pro	fessor, Dep	oartment of l	Food Tech	nnology	
		Work	ing plac	e: Room	314, Mecha	anization Bu	ilding		
		E-mai	l: tetian	a.stepano	va@snau.e	du.ua			
		Consu	ıltation l	hours: eve	ery Monday	from 1:00	PM to 2:0	00 PM	
13.	General description of the					ides section			
	educational component					duction and			
						ne discipline			
						developmer oduct safety			
						ent system.			
						r the purpos			
					n food prod				
13.	The aim of education					nd practical			-
	component		-			ent of food p	production	n in order	to ensure
					•	d products.			
	Prerequisites for studying				_	based on kr	_		
	EK, connection with other		_			the product			-
	educational components of EP	products by means of restaurant enterprises), standardization, certification							
	Li			_		ood produc			
		l '	-		in regulator	ry documen	ts regulati	ing the ac	ctivities of
				erprises).					
					-	the basis for			Innovative
		techno	ologies i	n industr	y enterprise	es, Professio	nal praction	ce	

15.	Academic Integrity Policy	Compliance with academic integrity for higher education applicants involves: independent completion of educational tasks, tasks of current and final control of learning outcomes; references to sources of information when using ideas, statements, and information; compliance with the norms of copyright legislation; provision of reliable information about the results of one's own educational or scientific activities. Violations of academic integrity when studying for the OC are considered: academic plagiarism, academic fraud (copying, cheating, passing off someone else's work as your own), use of electronic devices during the final knowledge control For violations of academic integrity, students may be held academically liable: Academic plagiarism - score 0, re-performance of the task. Academic fraud - cancellation of points received; re-taking the assessment; re-performance of work not completed independently; Use of electronic devices during the final knowledge control - suspension from performing the work, score 0, re-passing the final control
		suspension from performing the work, score 0, re-passing the final control
16	Link to the course in the system Moodle	https://cdn.snau.edu.ua/moodle/course/view.php?id=3356
17	Keywords	Food industry, management of food industry, restaurants, catering, restaurant business

2. LEARNING OUTCOMES BY EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH PROGRAM LEARNING OUTCOMES

WITH I ROURAW LEARING OUTCOMES						
Learning results for EK:	Program learning outcomes that are			omes th	As the LOE is estimated	
After studying the educational	directe	d to EK	(indica	te the nu	ımber	
component, the student will be able	accor	ding to	the num	ber give	en in	
to			OP)			
	ПРН 2	ПРН 3	ПРН 5	ПРН 6	ПРН 7	
LOE 1. Know the basics of food safety	+	+				Multiple selection and
when using it in the production of						compliance tests; solving
dishes and culinary products by means						situational problems
of restaurant enterprises						
LOE 2. Understand the structure and		+	+			Multiple selection and
interrelationship of production						compliance tests; solving
processes of food enterprises in order						situational problems
to rationally manage them						
LOE 3. Know the standards of HACCP				+	+	Multiple selection and
and ISO quality management systems						compliance tests; solving
for implementation in individual food						situational problems
enterprises						
LOE 4. Be able to independently			+		+	Presentation with a report,
acquire modern knowledge and						differential assessment
effectively establish communication						
when performing team tasks						

3. CONTENT OF THE EDUCATIONAL COMPONENT (PROGRAM OF THE COURSE)

List of issues to be addressed within the topic Class work Class work Indep.	3. CONTENT OF THE EDUCATIONAL COMPON				,
Class work Indep.	Topic.				Recomended
Class work Indep. Lc Lb Full Ful	List of issues to be addressed within the topic	the	general	budget	literature ¹
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Lb. Study of methods and indicators of product quality					
	assessment				
STS. Indicators of purpose, reliability, manufacturability,					

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 $^{^1\}mbox{Specific}$ source from the main or additionally recommended literature

transportability, safety, standardization and unification,				
aesthetic, ergonomic, patent and legal, environmental, use of				
raw materials, materials, fuel, energy and labor resources.				
Le Topic 6. Organization of quality control.	2/-	8/-	9/21	2, 8,11
Economic dependence of the employee and quality.				
Quality control of products at enterprises.				
Lb. Study of the features of the organization of quality control				
Iw. Quality control carried out by special laboratories.				
Lc Topic 7. HACCP quality control system.	2/2	8/-	9/22	1,5,6,7,11
Legislative framework.				
Basic concepts.				
HACCP principles.				
Advantages of the HACCP system.				
Lb. Study of the HACCP quality control system				
Iw. History of the HACCP quality control system				
Totaly	14/2	60/-	76/148	

4. TEACHING AND LEARNING METHODS

1.05	FD 1' (1 1 / 1	NT 1 2	m 1' '1 / 1	NT 1 0
LOE	Teaching methods (work to	Number of	Č	Number of
	be done by the teacher	hours	types of educational	hours
	during classes,		activities the student must	
	consultations)		perform independently)	
LOE 1. Know the basics of	Explanatory-reproductive	74	work with textbooks,	76
food safety when using it in	methods: lecture, story-		manuals, materials of the	
the production of dishes	explanation, aimed at		Internet; , illustration,	
and culinary products by	highlighting the value-		demonstration,	
means of restaurant	oriented content of		performance of	
enterprises	educational material (in the		independent works, etc.	
	context of professional			
	tasks)			
	Use of the MOODLE,			
	ZOOM platform during the			
	mixed form of training.			
LOE 2. Understand the	Partial search methods:		independent search of	
structure and	problem-dialogue,		educational information	
interrelationship of	modeling, case method, etc.			
production processes of	Use of the MOODLE,			
food enterprises in order to	ZOOM platform during the			
rationally manage them	mixed form of training.			
LOE 3. Know the standards	Partial search methods:		Literature review and	
of HACCP and ISO quality	problem-dialogue,		regulatory documentation	
management systems for	modeling, case method, etc.		on the topic, on the Moodle	
implementation in	Use of the MOODLE,		platform	
individual food enterprises	ZOOM platform during the			
	mixed form of training.			
LOE 4. Be able to	Problematic - discussions		Literature review and	
independently acquire	and debates on the studied		regulatory documentation	
modern knowledge and	material.		on the topic, on the Moodle	
effectively establish	Lecture-press conference.		platform	
communication when	Use of the MOODLE,			
performing team tasks	ZOOM platform during the			
	mixed form of training.			

5. EVALUATION BY EDUCATIONAL COMPONENT

5.1. Diagnostic evaluation (indicated if necessary)

5.2. Summative assessment

5.2.1 To assess the expected learning outcomes provided

		Points /	
No	Methods of summative assessment	Weight in the overall	Date of compilation
		score	
	Module 1 (35 points)		
1.	Intermediate computer-based testing	15 points / 15%	By the end of week 7
2.	Performing and defending laboratory work	20 points / 20%	1-7 week
	Module 2 (35 points)		
3.	Intermediate testing	15 points / 15%	By the end of week
			14
4.	Performing and defending laboratory work	15 points / 15%	8-14 week
5.	Completion of an individual	5 points / 5 %	8-14 week
	assignment/course (non-formal education)		
6.	Exams	30 points / 30 %	Exam week

5.2.2 Evaluation criteria

Component	ponent Unsatisfactorily Satisfactorily		Good	Exellent
	<3 points	3-5	6-8 points	9-10 points
Interview	Task requirements don't met	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	All requirements of the task are fulfilled	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered
	<3 points	3-5	6-8 points	9-10 points
Solving of situational tasks	Task requirements don't met	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	All requirements of the task are fulfilled, the situational task is solved completely, the report is made	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered
	<3 points	3-5	6-8 points	9-10 points
Presentation with a report	Task requirements don't met	The presentation is prepared, but the report is vague, not logical	All the requirements of the task are met, the report and presentation meet the requirements	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution is offered
	<5 points	5-10	11-15	16-20
Protocols of laboratory training	Task requirements don't met	Most of the requirements are met, but there are minor violations of the methods	The task is done correctly	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution is offered
Multiple choice	<2 points	2-9	10-13	14-15
tests	Less than 3 correct answers	3-7 correct answers	8-9 correct answers	All correct answers

Formative assessment:

№	Elements of formative assessment	Date
1.	Written survey after studying the topics with feedback from the teacher	15 minutes at the end of the lesson at the end of the study of the topic
2.	Oral feedback from the teacher while working on situational tasks during classes	next lesson after learning a new topic
3.	Oral feedback from the teacher and students after the presentation with the report	10-15 weeks
4.	Express survey with peer review by students	before the each laboratory trainings
5.	Final test control with feedback from the teacher	at the end of each topic

6. LEARNING RESOURCES (LITERATURE)

6.1 Main sources

- 1. DSTU EN ISO 9001:2018. Quality management systems. Kyiv: State Standard of Ukraine, 2018.
- 2. DSTU ISO 10018:2021 Quality management. Guidelines for personnel recruitment. 2021
- 3. ISO 22000:2018 Food safety management systems. Requirements for any organization in the food chain. https://www.iso.org/iso-22000-food-safety-management.html
- 4. Bocharova O.V. HACCP and food safety management systems: textbook / O.V. Bocharova. Odesa: Atlant, 2019. 376 p.
- 5. Davydova O.Yu. Quality management of products and services in the hotel and restaurant industry: textbook / O. Yu. Davydova. Kh.: Ivanchenko I.S. Publishing House, 2018. 488 p.
- 6. Kiyko V. V. Quality management systems at food industry enterprises / V. V. Kiyko, O.P. Melnyk, O.V. Kuzmin, Oldi+, 2023. 278 p.
- 7. Luning, P. A., & Marcelis, W. J. (2020). Food Quality Management: Technological and Managerial Principles and Practices
- 8. Cichy, R. F., & Cha, J. (2019). Food Safety and Quality Management.
- 9. Nederland, K. H., & De Wit, B. (2018). Code of Hygiene for Hotel and Catering

6.2 Additional sources

- 10. Arduser L., & Brown, D. R. (2018). HACCP and sanitation in restaurants and food service operations. Atlantic Publishing Company.
- 11. Kalycheva, N. E., Kutsenko, N. M., & Godunov, F. A. (2023). Quality management of food industry products. Visnik Èkonomiki Transportu i Promislovosti, 84, 175–182. https://doi.org/10.18664/btie.84.301467
- 12. Kondratyuk N. V., Stepanova T. M., Kozhemyaka O. V., Suprunenko K. E. (2021). System of technical regulation and conformity assessment of Ukraine and the PRC. Comparative analysis of legislation on product quality and safety. Scientific Bulletin of the Poltava University of Economics and Trade. Series "Technical Sciences", 96(1), 82-88. https://doi.org/10.37734/2518-7171-2020-1-10
- 13. Stepanova, T.M., Gelikh, A.O. (2021). Formation of culinary brands of Sumy region as a component of the region's hospitality. Tourism and Hospitality Industry in Central and Eastern Europe, (3), 44-48. https://doi.org/10.36477/tourismhospcee-3-7

Software

Software (to support distance learning (Moodle), online surveys (Kahoot, LearningApp), etc.