#### Ministry of Education and Science of Ukraine State higher education institution «Ukrainian State University of Chemical Technology»

			Rector SHEI	USUCE
				O. Pivovarov
				2017 y.
***			IAI DDOGDA	
EL	DUCATION	PROFESSION	AL PROGRA	<b>M</b>
		Food tech	nology	
	1)	Name of educational prog	gram)	
		Second (master	's) level	
-		e of higher educatio		
	(n	Mahistr name of degree awar	ded)	
	(11	name or degree awar	ucu)	
BRANCH OF KNO	OWLEDGE	18 Production	n and technolog	<u>y</u>
		(code and domain	name)	
SPECIALTY				
(code an	d specialty nam	ne)		

Approved at the meeting academic council SHEI USUCE from 29.06.2017 y. protocol №7

The Dnieper 2017

	approval FESSIONAL PROGRAM
Higher education level	Second (master's) level
Branch of knowledge	18 Production and technology
Specialty	181 Food technology
Specialization	Technology of fats and fat substitutes
"AGREED"	"DEVELOPERS"
First vice-rector, chairman of the	Project team leader
scientific and methodological council SHEI USUCE	professor of the department of CTMC
Goleus V.	Chervakov O.
(signature) (surname and initials)	(signature) (surname and initials)
""2017 y.	""2017 y.
Head of educational and scientific	Member of the project team
center	docent of the department of CTMC
(signature) Smotraev R. (surname and initials)	(signature) Filinska T. (surname and initials)
" " 2017 y.	" 2017 y.
Scientific and methodical department	Member of the project team
Selentific and methodical department	docent of the department of CTMC
Fomenko G.	document of the department of 21112
(signature) (surname and initials)	Holub L.
""2017 y.	(signature) (surname and initials)
<u> </u>	" " 2017 y.
Dean of the Faculty of Macromolecular	
Technology	
Ovcharov V.	
(signature) (surname and initials)	
"	
Head of Department	The educational and professional
Chervakov O.	program was enacted by order of the
(signature) (surname and initials)	rector
""2017 y.	№ <u>244</u> from « <u>27</u> » <u>11</u> _2017 y.

Table 3. List of disciplines of the educational and professional training program for second-level (master's) students, educational time in ECTS credits by training cycles, and a list of competences and learning outcomes formed

Training cycles	Competency Codes	Codes of learning outcomes	List of disciplines	ECTS credits
1	2	3	4	5
1.1. General training cycle (generates general competencies)	GC-1, GC-2, GC-3, GC-4, GC-5, GC-6, GC-7, GC-10, SC-3, SC-7, SC-10, SC-13, SC-14, SC-17	OSF-3, OSF-5, OSF-7, OSF-8, OSF-14, OVMF-1, OVMF-2, OVMF-3, OVMF-4, OVMF-6, OVMF-9, OVMF-10, OVMF-11	1.1.1 Management in production	4,0
			1.1.2 Physical education (outside credit)	
	GC-1, GC-2, GC-3, GC-5, GC-6, GC-7, GC-8, GC-9, GC-10, GC-13, SC-14, SC-17	OSF-11, OVMF-2, OVMF-3, OVMF-7, OVMF-10, OVMF-11	1.1.3 Foreign language for professional purposes	4,0
	GC-3, GC-4, GC-5, GC-8, GC-10, GC-11, GC-13, GC-14, GC-15, SC-2, SC-4, SC-6, SC-7, SC-10, SC-11, SC-14, SC-17	OSF-1, OSF-3, OSF-4, OSF-6, OSF-7, OSF-9, OSF-10, OSF-12, OSF-15, OVMF-4, OVMF-5, OVMF-6, OVMF-7, OVMF-9, OVMF-10, OVMF-11, OPF-4	1.1.4 Occupational safety in industries	2,0
	GC-3, GC-5, GC-6, GC-7, GC-8, GC-9, GC-10, GC-11, GC-12, GC-13, GC-14, SC-5, SC-7, SC-10, SC-14, SC-17	OSF-9, OSF-10, OSF-15, OVMF-2, OVMF-8, OVMF-10, OVMF-11, OPF-4	1.1.5 Civil protection	1,5

ology and 2,0 thods in
thods in
ation
ctual 2,0
odology and 4,0
of scientific
19,5
nated process 4,0
ems in the
ning of 5,0

GC-14, GC-15,	OSF-10, OSF-12, OSF-13,	plants for the extraction	
SC-2, SC-10, SC-14, SC-15, SC-	OVMF-2, OVMF-3, OVMF-5,	and processing of	
17	OVMF-6, OVMF-7	vegetable fats	
GC-1, GC-2, GC-3, GC-4, GC-5,	OSF-1, OSF-2, OSF-3, OSF-4,	1.2.3 Scientific research	5,0
GC-6, GC-7, GC-9, GC-10, GC-	OSF-5, OSF-6, OSF-7, OSF-8,	on the topic of master's	,
11, GC-13, GC-14, GC-15,	OSF-9, OSF-13, OSF-15,	work	
SC-1, SC-2, SC-3, SC-4, SC-5,	OVMF-1, OVMF-2, OVMF-3,		
SC-6, SC-9, SC-10, SC-11, SC-12,	OVMF-4, OVMF-5, OVMF-6,		
SC-14, SC-15, SC-17	OVMF-7, OVMF-8, OVMF-9,		
	OVMF-10, OVMF-11,		
	OPF-1, OPF-2, OPF-3, OPF-4		
GC-1, GC-2, GC-3, GC-4, GC-5,	OSF-1, OSF-2, OSF-3, OSF-4,	1.2.4 Preparation of	28,0
GC-6, GC-9, GC-11, GC-13, GC-	OSF-5, OSF-6, OSF-7, OSF-8,	master's qualification	
14, GC-15,	OSF-9, OSF-10, OSF-12, OSF-13,	work and state	
SC-1, SC-2, SC-3, SC-4, SC-5,	OSF-14, OSF-15, OSF-16,	certification	
SC-6, SC-7, SC-9, SC-10, SC-11,	OVMF-1, OVMF-2, OVMF-3,		
SC-12, SC-13, SC-14, SC-15,	OVMF-4, OVMF-5, OVMF-6,		
SC-16, SC-17	OVMF-7, OVMF-8, OVMF-9,		
	OVMF-10, OVMF-11,		
	OPF-1, OPF-2, OPF-3, OPF-4		
GC-1, GC-3, GC-5, GC-6, GC-11,	OSF-1, OSF-2, OSF-3, OSF-4,	2.1.1 Functional fat	3,0
GC-14, GC-15,	OSF-7, OSF-13, OSF-15,	technology	
SC-1, SC-2, SC-3, SC-4, SC-9,	OVMF-1, OVMF-2, OVMF-3,		
SC-10, SC-11, SC-14, SC-15,	OVMF-5, OVMF-6, OVMF-7,		
SC-17	OVMF-10, OVMF-11		
GC-1, GC-3, GC-5, GC-6,	OSF-1, OSF-2, OSF-3, OSF-4,	2.1 2 Technology of	4,0
GC-11, GC-14, GC-15,	OSF-7, OSF-13, OSF-15,	food surfactants	
SC-1, SC-2, SC-3, SC-4, SC-9,	OVMF-1, OVMF-2, OVMF-3,		
SC-10, SC-11, SC-14, SC-15,	OVMF-5, OVMF-6, OVMF-7,		
SC-17	OVMF-10, OVMF-11		
GC-1, GC-3, GC-5, GC-6, GC-7,	OSF-1, OSF-2, OSF-3, OSF-4,	2.1.3 Innovative	6,0
GC-9, GC-10, GC-11, GC-13, GC-	OSF-7, OSF-8, OSF-13, OSF-15,	technologies of fats	

14, GC-15,	OVMF-1, OVMF-2, OVMF-3,		
SC-1, SC-2, SC-3, SC-4, SC-9,	OVMF-5, OVMF-6, OVMF-7,		
SC-10, SC-11, SC-14, SC-15, SC-17	OVMF-10, OVMF-11		
GC-1, GC-3, GC-5, GC-6, GC-11, C	OSF-1, OSF-2, OSF-3, OSF-4,	2.1.4 Technology of	5,0
GC-14, GC-15,	OSF-7, OSF-13, OSF-15,	natural essential oils and	
SC-1, SC-2, SC-3, SC-4, SC-9,	OVMF-1, OVMF-2, OVMF-3,	synthetic fragrant	
SC-10, SC-11, SC-14, SC-15,	OVMF-5, OVMF-6, OVMF-7,	compounds	
	OVMF-10, OVMF-11	•	
		2.1.5. One of the	10,5
		modules:	
		Module 1	
GC-1, GC-2, GC-3, GC-4, GC-5, C	OSF-1, OSF-2, OSF-3, OSF-4,	Research practice	
	OSF-5, OSF-6, OSF-7, OSF-8,	•	
GC-11, GC-12, GC-13, GC-14,	OSF-9, OSF-13, OSF-15,		
	OVMF-1, OVMF-2, OVMF-3,		
SC-1, SC-2, SC-3, SC-4, SC-5,	OVMF-4, OVMF-6, OVMF-7,		
	OVMF-8, OVMF-10, OVMF-11,		
	OPF-1, OPF-2, OPF-3, OPF-4		
SC-17	, , ,		
GC-1, GC-2, GC-3, GC-6, GC-7, C	OSF-3, OSF-7, OSF-11,	Assistant practice	
GC-8, GC-10, GC-11, GC-12, GC-	·	•	
	OVMF-5, OVMF-6, OVMF-7,		
SC-3, SC-8, SC-10, SC-12, SC-14, C	·		
	OPF-4		

		Module 2	
GC-1, GC-2, GC-3, GC-4, GC-5,	OSF-1, OSF-2, OSF-3, OSF-4,	Scientific and research	
GC-6, GC-7, GC-8, GC-9, GC-10,	OSF-5, OSF-6, OSF-7, OSF-8,	practice	
GC-11, GC-12, GC-13, GC-14, GC-	OSF-9, OSF-13, OSF-15,		
15,	OVMF-1, OVMF-2, OVMF-3,		
SC-1, SC-2, SC-3, SC-4, SC-5,	OVMF-4, OVMF-6, OVMF-7,		
SC-6, SC-7, SC-9, SC-10, SC-11,			
SC-12, SC-14, SC-15, SC-16,	OVMF-8, OVMF-10, OVMF-11,		
SC-17	OPF-1, OPF-2, OPF-3, OPF-4		
GC-1, GC-3, GC-5, GC-6, GC-8,	OSF-1, OSF-2, OSF-3, OSF-4,	Undergraduate	
GC-9, GC-10, GC-11, GC-13, GC-	OSF-6, OSF-7, OSF-8, OSF-9,	manufacturing practice	
14, GC-15,	OSF-10, OSF-12, OSF-13,		
SC-1, SC-2, SC-3, SC-4, SC-5,	OSF-15, OSF-16		
SC-6, SC-9, SC-10, SC-11, SC-12,	OVMF-1, OVMF-2, OVMF-3,		
SC-13, SC-14, SC-15, SC-16,	OVMF-5, OVMF-6, OVMF-7,		
SC-17	OVMF-8, OVMF-9, OVMF-10,		
	OVMF-11,		
	OPF-1, OPF-2, OPF-3, OPF-4		
		Total 1.2	70,5
		TOTAL	90,0

Table 4. Matrix of correspondence of program competences to educational components

		Tab								F - 3				-			nai com			
scipline to the lum																		Iodule 1	2.1.5 N	Iodule 2
Code of discipline according to the curriculum	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.1.8	1.2.1	1.2.2	1.2.3	1.2.4	2.1.1	2.1.2	2.1.3	2.1.4	Scientific and research practice	Assistant practice	Scientific and research practice	Undergraduate manufacturing practice
IHT	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC-1	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC-2	+		+				+	+			+	+					+	+	+	
GC-3	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC-4	+			+		+	+	+	+		+	+					+		+	
GC-5	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
GC-6	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC-7	+		+		+	+	+	+			+				+		+	+	+	
GC-8			+	+	+	+	+	+	+								+	+	+	+
GC-9			+		+	+	+	+			+	+			+		+		+	+
GC-10	+		+	+	+	+	+	+			+						+	+	+	+
GC-11				+	+			+	+	+	+	+	+	+	+	+	+	+	+	+
GC-12					+	+		+							+		+	+	+	

GC-13		+	+	+	+	+	+			+	+			+		+	+	+	+
GC-14			+	+		+		+	+	+	+	+	+	+	+	+		+	+
GC-15			+		+	+	+	+	+	+	+	+	+	+	+	+		+	+
SC-1					+	+	+	+		+	+	+	+	+	+	+		+	+
SC-2			+		+	+	+	+	+	+	+	+	+	+	+	+		+	+
SC-3	+					+	+			+	+	+	+	+	+	+	+	+	+
SC-4			+			+	+			+	+	+	+	+	+	+		+	+
SC-5				+		+	+			+	+					+		+	+
SC-6			+			+	+	+		+	+					+		+	+
SC-7	+		+	+			+				+					+		+	
SC-8		+			+												+		
SC-9						+	+	+		+	+	+	+	+	+	+		+	+
SC-10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SC-11		+	+		+	+	+			+	+	+	+	+	+	+		+	+
SC-12		+			+	+	+			+	+					+	+	+	+
SC-13	+										+								+
SC-14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SC-15								+	+	+	+	+	+	+	+	+		+	+
SC-16								+			+					+		+	+
SC-17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Table 5. Software matrix for software learning outcomes with relevant components educational and professional program

cipline g to ulum																	2.1. Modu		2.1 Mod	
Code of discipline according to the curriculum	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.1.8	1.2.1	1.2.2	1.2.3	1.2.4	2.1.1	2.1.2	2.1.3	2.1.4	Scientific and research practice	Assistant practice	Scientific and research practice	Undergraduate manufacturing practice
OSF-1.				+		+	+	+	+		+	+	+	+	+	+	+		+	+
OSF-2.						+	+	+		+	+	+	+	+	+	+	+		+	+
OSF-3.	+			+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
OSF-4.				+		+	+	+	+		+	+	+	+	+	+	+		+	+
OSF-5.	+						+	+			+	+					+		+	
OSF-6.				+			+	+	+		+	+					+		+	+
OSF-7.	+			+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
OSF-8.	+						+	+			+	+			+		+		+	+
OSF-9.				+	+			+	+	+	+	+					+		+	+
<i>OSF-10</i> .				+	+				+	+		+								+
<i>OSF-11</i> .			+			+												+		
<i>OSF-12</i> .				+					+	+		+								+
OSF-13									+	+	+	+	+	+	+	+	+		+	+
OSF-14	+								+			+								
<i>OSF-15</i> .				+	+		+	+			+	+	+	+	+	+	+		+	+
<i>OSF-16</i> .	_						-		+			+								+
OVMF-1.	+					+	+	+			+	+	+	+	+	+	+	+	+	+

OVMF-2.	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
OVMF-3.	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
OVMF-4.	+		+		+	+	+			+	+					+		+	
OVMF-5.			+		+	+	+		+	+	+	+	+	+	+		+		+
OVMF-6.	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
OVMF-7.		+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+
OVMF-8				+						+	+					+		+	+
OVMF-9	+		+			+	+	+		+	+						+		+
OVMF-10	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+
OVMF-11	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+
OPF-1.							+			+	+					+		+	+
OPF-2.							+			+	+					+		+	+
OPF-3.							+	+		+	+					+		+	+
OPF-4.			+	+			+	+		+	+					+	+	+	+

#### III – FORMS OF CERTIFICATES FOR HIGHER EDUCATION

Forms of attestation of applicants for higher education  Requirements for final qualification work (in the presence)	The mandatory form of state certification is the implementation and protection of qualification (diploma) works (projects).  The system of competencies and learning outcomes specified in Chapters IV and V. are subject to state certification.  The main means of objective control of the degree of achievement of the final goals of education and professional training of masters is the technology of implementation and protection of qualification (diploma) works (projects), which is defined in the following documents: Regulations on EC, Guidelines for the implementation of qualification (diploma) projects (works).  Requirements for the final qualification work are set out in the Guidelines for the implementation of qualification (diploma) projects (works).  The final qualification work is accompanied by the review of the scientific supervisor and the reviewer's review, which
	are responsible for checking the completeness of the tasks, the quality of the work as a whole and its testing for plagiarism.
Certification / Uniform Qualification Exam Requirements (exams) (in the presence)	
Requirements for public protection (demonstration) (in the presence)	Requirements for public protection are formulated in the Regulations on EC and guidelines for the implementation of qualification (diploma) projects (works).

# IV - Requirements for having an internal quality assurance system for higher education

Determined in accordance with European Standards and Recommendations on Quality Assurance in Higher Education (ESG) and Article 16 of the Law of Ukraine "On Higher Education"

Components of the internal quality assurance system of higher education	Definitions, references and related documents				
Principles and	- Law of Ukraine "On Higher Education" of 01.07.2014, №				
procedures for quality	1556-VII;				
assurance in education	- Provisional Regulation on the Organization of the				
	Educational Process at the State Educational Institution of				
	the State Pedagogical University (Order of the Rector of the				
	State Pedagogical University of the State Pedagogical				
	University of Ukraine № 290 of 30.11.2015);				
	- Regulations on diploma with honors of SHEI USUCT				
	(Order of the rector of SHEI USUCT from 25.02.2016, No.				
	55);				
	- Regulations on the procedure for setting up and organizing				
	the work of the examination commission at the State				
	Educational Institution of the State Pedagogical University				
	(Order of the Rector No. 68 of 01.04.2015, No. 68);				
	- Regulations on the development of approval and revision				
	of work programs of educational disciplines (Order of the				
	Rector of the State Pedagogical University of the State				
36	Pedagogical University of Ukraine dated 29.12.15 № 291)				
Monitoring and periodic	Annual monitoring of requirements of industry and labor				
review of educational	market, review of educational programs, work curricula,				
programs	work programs of educational disciplines. On approval of				
	the composition of the project teams for the development of				
	educational programs (Order of the Rector of the State				
	Pedagogical University of the State Pedagogical University				
	of Ukraine, No. 74, dated March 10, 2016)				

Annual evaluation of					
higher education	the quality of training (Order of the Rector of March 17,				
applicants	2014 # 8)				
Annual evaluation of	Regulations on the commission of the rectories control of				
scientific-pedagogical	pedagogical skills of scientific and pedagogical workers of				
and pedagogical staff of	the University (Order of the Rector of the State Pedagogical				
higher education	University of the State Pedagogical University of				
institution	04.04.2016, No. 85) with changes to the Order No. 147 of				
	09.06.2011), Procedure of application of the rating system				
	of evaluation of the departments and faculties of the State				
	Pedagogical University of the State Pedagogical University				
	(Order of the Rector of June 20, 2010 No. 209).				
	Regular publication of the results of such assessments on				
	the official website of the institution of higher education, on				
	information stands and in any other way				
Improvement of	Improvement of the qualification of scientific and				
qualification of	pedagogical workers is carried out in accordance with the				
scientific-pedagogical,	provision approved by the order of the Ministry of				
pedagogical and	Education and Science of January 24, 2013 No. 48 and the				
scientific workers	Regulations on professional development and training of				
	pedagogical and scientific and pedagogical workers of the				
	State Pedagogical University of the State Pedagogical				
	University of 05.05.2016.)				
Availability of	Educational and methodological, logistical and personnel				
necessary resources to	support of the license conditions (Resolution of the CM				
organize the educational	dated December 30, 2015 No. 1187) of educational activity.				
process	License Series AE No. 636496. Certificates in the areas of				
	training and specialties.				
Availability of					
information systems for	Educational Process in the State Educational Institution of				
effective management of	the State University of Education and Science (Order of the				
the educational process	Rector of the State Educational Institution of the State				
•	University of Culture of Ukraine as of November 30, 2015,				
	No. 290) is supported by the Information-analytical system				
	of control of the educational process, which consists of				
	subsystems: Applicant, Educational process.				
1	1 <b>*</b>				

Publicity of information on educational programs, degrees of	1 1 1
higher education and qualification	
Preventing and detecting academic plagiarism	Verification of completeness of tasks, quality of work as a whole and its check for plagiarism is carried out by the teacher – the leader of course or diploma work (project) in the established order using the appropriate software.

### I. PROFILE OF THE MASTER'S EDUCATION PROFESSIONAL

## PROGRAM majoring in Food Technology

Program Profile (General Information)					
Full name of the	Higher Education Degree – Master, Specialty – Food				
qualification in the	Technology				
The official name of North Description 1997					
the educational	Master's Degree Program in Food Technology Master's Degree in 181 Food Technology				
program					
Type of diploma and	Mastar's Dagrae in Food Tachnology single (double, joint with				
scope of educational	Master's Degree in Food Technology, single (double, joint with relevant contracts, training programs); 90 ECTS credits				
program	relevant contracts, training programs), 70 Le 15 creats				
Full name of higher					
education institution	State Higher Educational Institution "Ukrainian State University				
awarding the	of Chemical Technology"				
qualification Accrediting	Accreditation Commission of Ukraine (State Educational and				
organization	Training Center for Educational Quality). SETCEQ.				
	Certificate validity after initial accreditation - 5 years, after				
Accreditation period	repeated – 10 years.				
Coole /level	NQF of Ukraine - Level 7, FQ-EHEA – Second Cycle, EQF-LLL				
Cycle / level	– Level 7				
Prerequisites	The first (bachelor) level				
Language (s) of	Ukrainian language				
teaching	2				
A	The purpose of the educational program				
The purpose of the	Provide students with knowledge, skills and understanding in the				
educational	field of food technology that will enable them to perform original				
program	scientific research or work independently in the industry.				
F- *8- **	1				
В	Characteristics of the educational program				
Subject area (field	Knowledge Area 18 - Manufacturing and Technology:				
of knowledge,	specialty 181 - Food technology				
specialty)	specialization - Technology of fats and fat substitutes				
The main focus of					
the program and	General higher education in the field of food technology.				
specialization					
Orientation of the	The research set is scientifically oriented, the teaching and				
program	application set are practically oriented.				
Features and	The program is scientifically or practically oriented, which				
differences	determines the type of practice (module 1 or module 2 in the cycle of vocational training is selected).				
1	cycle of vocational training is selected).				

С	Ability to find employment and further education			
	Jobs in high-tech food companies, oil and fat extraction and			
	processing enterprises and related industries; teachers of			
<b>Employment ability</b>	educational establishments of different levels of education,			
	scientists in research organizations, scientific centers,			
	laboratories.			
Further training	Third-level education in doctoral programs in food technology.			
D	Teaching style and teaching methodology			
Approaches to	Combination of lectures and practicals, experimental research in			
teaching and	laboratories, writing of course projects or works, self-study,			
learning	preparation of qualification work.			
Assessment methods	Written and oral examinations, tests, presentations, defense of			
Tissessificate incurrence	master's qualification work.			
_				
E	Software competencies			
T	Master's Degree (Level 7): The ability to solve complex problems			
Integrated	and problems in a particular area of professional activity or in a			
Competence (INC)	learning process that involves research and / or innovation and is			
	characterized by uncertain conditions and requirements			
	GC-1. Ability to think abstractly, analyze and synthesize.			
	GC-2. Ability to speak a second language.			
	GC-3. Use of information and communication technologies.			
	GC-4. Ability to conduct research at the appropriate level. GC-5. Ability to learn and be modernly trained.			
	GC-6. Ability to search process and analyze information from			
	various sources.			
	GC-7. The ability to be critical and self-critical.			
	GC-8. The ability to adapt and act in a new situation.			
	The ability to work as a team.			
General	GC-10. Interpersonal skills.			
Competencies (GC)	GC-11. Commitment to security.			
(	GC-12. Ability to act on the basis of ethical considerations			
	(motives).			
	GC-13. Definition and perseverance about tasks and			
	responsibilities.			
	GC-14. The desire to preserve the environment.			
	GC-15. Ability to apply basic knowledge of fundamental sciences			
	to the extent necessary for the theoretical development of			
	vocational-oriented disciplines and the solution of practical			
	problems in food technology, incl. production and processing of			
	oil and fat products.			
Special	SC-1. Ability to possess methods of observing, describing,			

## (professional) competencies (SC)

- identifying and classifying food technology objects and products. *SC-2*. Ability to use knowledge, skills and competences in the disciplines of the general cycle of preparation for the theoretical development of the disciplines of professional direction and solving practical problems in food technology, incl. production and processing of oil and fat products.
- *SC-3*. Basic ideas about the basic laws of development and modern achievements in food technology, understanding of the role of energy saving in modern technology.
- *SC-4.* Basic ideas about signs, parameters, characteristics, structure, properties of food systems.
- *SC-5*. Ability to apply basic physicochemical methods for research, analysis and evaluation of technological systems.
- *SC-6*. Ability to apply modern experimental methods of working with technological objects in industrial and laboratory conditions, skills of work with modern measuring equipment.
- *SC-7.* Ability to organize the work of the production unit in accordance with the requirements of life safety, labor protection and civil protection.
- *SC-8.* Ability to organize and conduct training sessions in vocationally oriented disciplines.
- *SC-9.* Ability to use mathematical apparatus for the development of theoretical foundations and practical use of methods of physical and chemical research for the development of new types of food and technical products based on oil and fat raw materials.
- *SC-10*. The skills to work with the most common computer software packages and use them to solve professional work challenges.
- *SC-11*. Ability to use professionally profiled knowledge and practical skills in vocational training disciplines to analyze the relationship between chemical composition and the properties of food and technical products.
- *SC-12*. Competence in planning, designing and executing research work, from the stage of problem recognition to the evaluation of results and formulation of conclusions; this includes the ability to select appropriate methods and procedures.
- *SC-13*. Ability to use professionally profiled knowledge and practical skills in the fundamentals of management and food technology to create, organize and effectively manage production units.
- *SC-14*. Information retrieval skills for primary and secondary sources of information, including on information retrieval systems through online search.
- *SC-15*. Ability to use professionally profiled knowledge, skills and competences in the cycle of vocational training disciplines to

	analyza avaluata and dasian tashuslil						
	analyze, evaluate and design technological processes and						
	equipment.						
	SC-16. Ability to use automated process control systems in the						
	industry.						
	SC-17. The skills of presenting scientific materials and arguments						
T7	in writing and orally to a competent audience.						
F	Program learning outcomes						
	<i>OCF-1</i> . Apply methods of observation, description, identification						
	and classification of food technology objects and products.						
	OCF-2. To apply a systematic approach, integrating knowledge from other disciplines and taking into account non-technical						
	<u> </u>						
	aspects, while solving the theoretical and applied problems of food technology, including production and processing of oil and						
	fat products.						
	OCF-3. To evaluate the state of the art of modern food						
	production technologies and their development trends.						
	OCF-4. To analyze the processes and phenomena observed in						
	food technology.						
	OCF-5. Make sound choices about the object and methods of the						
	research, formulate the purpose and objectives of the research,						
	and determine ways to solve them.						
	OCF-6. Investigate the physicochemical properties of the object						
	of study, as well as the influence of technological parameters on						
	the course of the process and the composition of the final						
T	product, using advanced methods of experimental research and						
Learning outcomes	modern measuring equipment.						
in the cognitive	OCF-7. Apply modern information and communication						
(cognitive) field	technologies for search, calculation, creation of graphic and text						
	documents, for mathematical analysis and statistical processing						
	in experimental research and design.						
	OCF-8. Make general conclusions about the research results of						
	the properties of the object of study or design.						
	OCF-9. Explain the causes of the risks associated with the use of						
	chemicals and laboratory procedures.						
	OCF-10. To develop safety measures at the production with their						
	further implementation.						
	OCF-11. Organize training sessions, as well as check the results						
	of student learning.						
	OCF-12. To draw design drawings of structural elements,						
	sections or food production shops, incl. extraction and processing						
	of vegetable and animal fats, their modifications.						
	OCF-13. To develop technological and equipment schemes of						
	production of products on the basis of oil and fat raw materials of						
	food and technical purpose, to choose the appropriate						
	technological equipment.						

	OCE 14 Organiza systematic programment of mudwetting with
	OCF-14. Organize systematic management of production units.
	OCF-15. Find engineering solutions for low-waste resource-
	saving technologies.
	OCF-16. Develop schematic diagrams of control and automatic
	control of basic parameters of technological process.
	OVMF-1. Meet the requirements of professional ethics in the
	workplace.
	OVMF-2. Desire to work independently.
	OVMF-3. Ask questions in discussions with colleagues, teachers.
	OVMF-4. Organize research at the appropriate level.
	OVMF-5. Apply knowledge of fundamental sciences to develop
	professional disciplines.
	OVMF-6. Participate in the discussion of the results of various
Outcomes of	types of work (pilot, search, project, etc.).
training in the	OVMF-7. Demonstrate acquired professional skills in creating
value-motivational	scientific and project documentation.
field	OVMF-8. Organize conservation activities.
	OVMF-9. Collaborate with colleagues in related fields to achieve
	research or project objectives.
	OVMF-10. To present the results of different types of work (pilot,
	search, project, etc.) in your native and one of the main European
	languages.
	OVMF-11. Understand scientific and technical texts in your
	1
	native and one of the major European languages.  OPF-1. Work out the experiment technique.
Learning outcomes	<i>OPF-2</i> . Repeatly reproduce the results of the experiments to
in the psychomotor	obtain reliable values and calculate the error of the experiment.
field	<i>OPF-3</i> . Combine different research methods to determine the
	values of the parameters under study.
	<i>OPF-4</i> . Comply with workplace safety.

# II. DEFINITIONS OF EDUCATIONAL DISCIPLINES / MODULES, ensuring the achievement of the planned learning outcomes and forms of certification of higher education applicants in accordance with the higher education standard

Table 1. Distribution of the content of educational and professional program by cycles of preparation and form of final control

N	Subjects	Credits	Hours	Semester	Tetramester	Final control
	1. COMPULSORY D	ISCIPL	INES			
	1.1 General training cycle (gen	nerates	compete	ncies)		
1.1.1	Management in production	4	120	1	1	exam
1.1.2	Physical education (non-credit discipline)					
1.1.3	Foreign language for professional purposes	4	120	2	3, 4	dif. test
1.1.4	Occupational Health in		60	1	1	exam
1.1.5	Civil Protection	1,5	45	1	2	test
1.1.6	Psychology and teaching methods in higher education		60	2	3	test
1.1.7	Intellectual Property	2	60	2	4	test
1.1.8	Methodology and organization of scientific research	4	120	1, 2	2, 3,	dif. test
	TOGETHER ON CYCLE 1.1	19,5	585			
	1.2 Training cycle (forms special ()	professi	onal) cor	npeten	ces)	
1.2.1	Automated process control systems for the industry	4	120	1	1, 2	dif. test
1.2.2	Designing of enterprises for extraction and processing of vegetable fats	5	150	1	1, 2	exam
1.2.3	Scientific research on the topic of master's work	5	150	2	3, 4	test
1.2.4	Preparation of master's qualification work and state certification	19,5	585	3	5, 6	SC
	TOGETHER ON CYCLE 1.2	33,5	1005			

	COMPULSORY TUTORIALS TOGETHER	53,0	1590				
2. SELECTIVE DISCIPLINES							
	2.1. Training cycle (forms special (	professio	onal) con	petenc	es)		
2.1.1	Functional fat technology	3	90	1, 2	2, 3	test	
2.1.2	Technology of food surfactants	4	120	2	3, 4	exam	
2.1.3	Innovative technologies of fats	6	180	1, 2	1, 2, 3, 4	test	
2.1.4	Technology of natural essential oils and synthetic fragrant compounds	5	150	1	1, 2	exam	
2.1.5	2.1.5 One of the modules:		315				
	Module 1						
	Research practice	6	180	3	5	dif. test	
	Assistant practice	4,5	135	3	5	dif. test	
	Module 2						
	Research practice	6	180	3	5	dif. test	
	Undergraduate manufacturing practice	4,5	135	3	5	dif. test	
1.2.4	Preparation of master's qualification work and state certification	8,5	255	2	3, 4	SC	
	TOGETHER ON CYCLE 2.2	37,0	855			_	
	SAMPLE PART TOGETHER	37,0	855				
	THE TOTAL AMOUN	90,0	2700				

Table 2. Generalized content distribution of educational and professional program by component groups (disciplines) and training cycles

		Higher educ	(credits / %)	
		Compulsory	Selective	
N	Preparation cycle	components of a	components of a	Total for the
11	r reparation cycle	professional	professional	whole term of
		education	education	study
		program	program	
1.	General training cycle	19,5 / 21,7		19,5 / 21,7
	(generates competencies)	19,3 / 21,7	-	19,5 / 21,7
2.	Training cycle (forms special	33,5 / 37,2	37,0 / 41,1	70,5 / 78,3
	(professional) competences)	33,3/31,2	37,0/41,1	10,5 / 10,5
Total for the whole term of study		53,0 / 58,9	37,5 / 41,1	90 / 100