MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE LVIV POLYTECHNIC NATIONAL UNIVERSITY

Acting Rector

OCBIOTA VIV Polytechnic

Natronal University

Yuriy BOBALO

2025

EDUCATIONAL-PROFESSIONAL PROGRAM "DEVELOPMENT ECONOMICS"

LEVEL OF HIGHER EDUCATION Master's level (Second cycle)

DEGREE OF HIGHER EDUCATION "Master"

BRANCH OF KNOWLEDGE C "Social Sciences, Journalism, Information and International Relations"

SPECIALTY C1 "Economics and International Economic Relations"

SPECIALIZATION C1.01 "Economics"

Considered and approved at a meeting of the Academic Council Lviv Polytechnic National University by «25» _____ 2025
Protocol No 21

COPY LIST Educational-professional program

Educational-professional program Higher education level Master (Second cycle) C "Social Sciences, Journalism, Information and Branch of knowledge International Relations" Specialty C1 "Economics and International Economic Relations" Specialization C1.01 "Economics" DEVELOPED AND APPROVED AGREED Scientific and Methodical commission Vice-Rector for Graduate Education of Lviv Polytechnic National Universiy specialty C1"Economics and International Economic Relations" Protocol No 1 Oleg DAVYDCHAK from « 11 » be bezus 2025 « (9 » 2025 Head of SMC specialty **Orest KOLESHCHUK** Head of Educational and Methodical

Department of the University

Vasyl TOMYUK

« (4) » 04 2025

Director of the Institute of Economics

Mykhailo HONCHAR

RECOMMENDED

A.G. Zagorodnii

Scientific and Methodical council of the University

Protocol No. 86

from «20 » 2025

Head of SMC the University

«12»_______2025

and Management

PREFACE

Developed on the basis of the Standard of Higher Education of Ukraine in specialty 051 "Economics" on the branch of knowledge 05 "Social and Behavioral Sciences" for the master's level (second cycle) of higher education, approved by the Order of the Ministry of Education and Science of Ukraine № 382 from 04.03.2020

Developed by the working group of the scientific-methodical commission of specialty C1 "Economics and International Economic Relations" cons

Valadame M. 1. 1	nternational Economic Relations", consist of:	
Volodymyr Melnyk	- Guarantor of the EPP, Ph.D., associate Professor,	
	associate Professor of Department of Enterprise	
	Economy and Investment	
Vasyl Kozyk	- Ph.D., Professor, head of Department of Enterprise	
	Economy and Investment	
N. II. G. I.		
Nadiya Selyuchenko	- Ph.D., associate Professor, associate Professor of	
——————————————————————————————————————		
Olena ZAGORETSKA	- Ph.D., associate Professor, associate Professor of	
	Department of Enterprise Economy and Investment	
Serhiy SICHNYI	Director of PE "Construction-Modern Technologies"	
Roman KINDZERA	Director of Economics "Eurotechexpertbud" LLC	
Vasyl DANILIV	Project manager of the company "Blago Developer"	
Sergiy LESIV.	Chief Engineer of TDV Ivano-Frankivskbud	
Oleg DOSKACH	director LLC CONSTRUCTION COMPANY SOCIUM	
-	DEVELOPER DEVELOPER	

Guarantor of the EPP,

University.

Protocol No / from «16» March

Ph.D., associate Professor, of Department of EEI	Kolodymyr Melnyk
The project of the educational and profess	ional program was discussed and
approved at the meeting of the Academic Council	of the Educational and Scientific
Institute of Economics and Management.	and Selentine

The head of the Academic Council of Institute Oleg KUZMIN
(signature)
The project of the educational and professional program was discussed and
approved at the meeting of the Scientific and Methodological Council of the
Educational and Scientific Institute of Economics and Management.
Protocol № 8 from «13» 03 2025
The head of the Scientific and Mathedal : 10
The head of the Scientific and Methodological Council of Institute
Volodymyr ZHEZHUKHA
(signature)
APPROVED AND PROVIDED (surname, initials)
By order of the acting rector Lviv Polytechnic National University
from « 20 » 04 2025 № 274-1-10
This educational professional
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University

1. Master's degree program in specialty
C1 "Economics and International Economic Relations

	1 – General information			
Full name of institution				
Full name of institution	Lviv Polytechnic National University			
of higher education and				
structural subdivision				
Level of higher	Second (Master's) level			
education				
Higher education degree	Master			
Branch of knowledge	C "Social Sciences, Journalism, Information and International			
	Relations"			
Specialty	C1 Economics and International Economic Relations "			
Specialization	C1.01 "Economics"			
Educational	Master in economics			
qualification				
Qualification in the	Higher education level "Master"			
diploma	Specialty "C1 Economics and International Economic Relations"			
	Specialization C1.01 «Economics"			
	Educational program "Development economics"			
The official name of the	Development economics			
educational program				
Type of diploma and the	Master's degree, unitary, 90 ECTS credits, term of training 1,5 years			
volume of the	o y y out of training 1,5 y out o			
educational program				
Availability of	Accredited			
accreditation				
Cycle / Level	NRC of Ukraine - 7 level, FQ-EHEA - second cycle, QF-LLL - 7 level			
Prerequisites	Bachelor's degree			
Restrictions on forms of	Without restrictions			
education	Without restrictions			
Language (s) of teaching	Ukraine, English			
Basic concepts and their	The program uses the basic concepts and their definitions in			
definition	accordance with the Law of Ukraine "On Higher Education"			
	2 – The purpose of the educational program			
	Training of specialists with modern economic thinking and relevant			
	competencies necessary for the successful performance of professional			
	duties in the field of "Social Sciences, Journalism and Information"in			
	the specialty C1 Economics and International Economic Relations"			
3 - Characteristics of the educational program				
Subject area Object of study and / or activity: modern economic process				
	phenomena, scientific methods of normative, quantitative and			
regional, sectoral economic policy and business economics. Learning objectives: to train highly qualified economics by professionals with modern economic thinking, theoretical known				
			and applied skills, able to solve complex research, innovation and	
			management problems and problems of functioning of economic	
			systems of different levels, characterized by uncertain conditions and	
	requirements.			
	Theoretical content of the subject area: general laws and trends of			
	economic development, motivation and behavior of market			
	participants; theories of micro-, macro- and international economics;			

	modern quantitative methods of economic processes analysis;		
	institutional and interdisciplinary analysis; patterns of modern socio-		
	economic processes; theories of economic management for different		
	production systems and sectors of the economy.		
	Methods, techniques and technologies: general scientific and		
	specific methods of cognition and research; mathematical, statistical,		
	qualitative methods of economic analysis; sociological, expert		
	evaluation, questionnaires; economic and mathematical modeling,		
	forecasting; information and communication technologies, special		
	software; research methods and presentation of research results.		
	Tools and equipment: modern information and communication		
	equipment, information systems and software products used in economic activities		
Orientation of the	The educational and professional program is based on the fundamental		
educational program	postulates and results of modern theoretical and applied researches in		
educational program	the field of economics, economics and management in the construction		
	industry particularly, and focuses on topical specialization, within		
	which further professional and scientific careers are possible: a top		
	manager, manager, specialist, professional and teacher of higher		
	education.		
The main focus of the	The educational-professional program represents special education and		
educational program	professional training in the specialization "Economics and		
and specialization	construction management with two selective blocks of professional		
	orientation: economics and management of construction business;		
	economics and management of a construction company.		
	Key words: socio-economic systems, economic activity management,		
	construction contracts, estimated cost, tender agreements, calendar		
	planning, rationing and resource management.		
Features and differences	The educational-professional program is based on the results of		
	modern applied researches of the domestic and foreign labor market in		
	the field of economics, on the wide application of modern economic		
	methods of capital investments planning and calculation and on the		
	capital construction efficiency improvement, it takes into account the		
	actual requirements and needs of modern construction enterprises		
	Provides for the teaching of professionally oriented disciplines in a		
4 E1	foreign language.		
4-En	gibility of graduates of the educational program for employment and further education		
Eligibility for	Workplaces in the public and private sectors of civil, industrial and		
employment	road construction, construction materials production, urban		
	development, investment and management companies, design		
al a	organizations, banks, enterprises and institutions of various forms of		
	ownership, including joint and foreign enterprises. At leading		
0	positions in the field of economic substantiation of decisions on the		
	management of assets, resources, projects, business processes, as well		
	as in higher educational institutions at the teachers positions.		
Further education	Doctoral programs, qualification improvement programs.		
T	5 - Teaching and evaluation		
Teaching and education	Combination of lectures, practical classes, consultations, laboratory		
	work with independent work, implementation of projects,		
Evoluction	consultations with teachers, preparation of master's qualification work.		
Evaluation	Exams, credits, current control, defense of course projects (works),		
	defense of master's qualification work.		

6 – Software competencies		
Integral competence (InC)	Ability to identify and solve complex economic problems, to make appropriate analytical and managerial decisions in the field of economics or in the learning process, which involves research and / or making innovation under uncertain conditions and requirements.	
General competencies (GC)	GC1. Ability to generate new ideas (creativity). GC2. Ability to abstract thinking, analysis and synthesis. GC3. Ability to motivate people and move towards a common goal. GC4. Ability to communicate with representatives of other different levels professional groups (with experts from other fields of knowledge / types of economic activity). GC5. Ability to work in a team. GC6. Ability to develop and manage projects. GC7. Ability to act based on ethical considerations (motives). GC8. Ability to conduct research at the appropriate level.	
Special (professional, subject) competencies of the specialty (PC)	 PC1. Ability to use scientific, analytical, methodological tools to justify the development strategy of economic entities and related management decisions. PC2. Ability to professional communication in the field of economics in a foreign language. PC3. Ability to collect, analyze and process statistical data, scientific and analytical materials that are necessary to solve complex economic problems, to draw sound conclusions based on them. PC4. Ability to use modern information technologies, methods and techniques of research of economic and social processes, adequate to the established needs of research. PC 5. Ability to identify key trends in socio-economic and human development. PC 6. Ability to formulate professional tasks in the field of economics and solve them, choos the appropriate directions and appropriate methods for their solution, taking into account the available resources. PC7. Ability to substantiate management decisions on the effective development of business entities. PC8. Ability to assess possible risks, socio-economic consequences of management decisions. PC9. Ability to apply a scientific approach to the formation and implementation effective projects in the socio-economic sphere. PC10. Ability to develop scenarios and strategies for the development of socio-economic systems. PC11. Ability to plan and develop projects in the field of economy, to carry out its informational, methodical, material, financial and personnel support. PC12. Ability to identify and evaluate the economic parameters of development projects, to form a project life cycle management system and to implement effective project management technologies in construction. PC13. Ability to identify and evaluate the economic parameters of development projects, to form a project life cycle management system and to implement effective project management technologies 	

Professional competencies of specialization (PCS) Selective component block 01 (Economics and management of construction business) PCS1.1. Ability to apply international and domestic requirements to the conclusion of construction contracts and the formation of internal and external contractual relations in construction. PCS1.2 Ability to provide rational construction financing based on the use of methods, tools and levers of financial management.

PCS1.3. Ability to use methodological principles of rationing and accounting for effective resource management in construction.

Selective component block 02 (Economics and management of a construction company)

- PCS2.1. Ability to form a production and organizational structure, plan, organize and control the activities of a construction company in accordance with the tasks and volumes of construction.
- PCS2.2. Ability to form a financial mechanism and justify management decisions to the search, attraction, distribution and use of financial resources, to optimization of cash flow of the construction company.
- PCS2.3. Ability to develop and form internal and external contractual relations, enter into contracts and form tender documents for a construction company.

7 - Program learning outcomes

Program learning outcomes (PLO)

- PLO1. To formulate, analyze and synthesize solutions to scientific and practical problems.
- PLO2. Develop, justify and make effective decisions on the development of socio-economic systems and management of economic entities.
- PLO3. Communicate freely on professional and scientific issues in state and foreign languages orally and in writing.
- PLO4. Develop socio-economic projects and a system of comprehensive actions for their implementation, taking into account their goals, expected socio-economic consequences, risks, legislative, resource and other constraints.
- PLO5. Adhere to the principles of academic integrity.
- PLO6. Evaluate the results of their own work, demonstrate leadership skills and ability to manage staff and work in a team.
- PLO7. To choose effective methods of economic activity management, to substantiate the offered decisions based on relevant data and scientific and applied researches.
- PLO8. To collect process and analyze statistical data, scientific and analytical materials needed to solve complex economic problems.
- PLO9. To make effective decisions under uncertain conditions and requirements that require the application of new approaches methods and tools of socio-economic research.
- PLO10. Apply modern information technologies and specialized software in socio-economic research and in the management of socio-economic systems.
- PLO11. Identify and critically assess the state and trends of socioeconomic development, form and analyze models of economic systems and processes.
- PLO12. To Justify management decisions for effective business development, taking into account goals, resources, constraints and risks.
- PLO13. Assess possible risks, socio-economic consequences of

	management decisions. PLO14. Develop scenarios and strategies for the development of socioeconomic systems. PLO15. Organize the development and implementation of socioeconomic projects taking into account information, methodological, material, financial and staffing. PLO16. To determinate the key parameters of development projects, economically justify management decisions of strategic and operational nature, to form management structures, to apply tools for managing the content, time, quality, risks and cost of projects in construction. PLO17. To estimate the cost of construction, determine the impact of design, organizational and technological decisions on the formation of the cost of construction, justify the evaluation criteria and form cost models taking into account the costs at different stages of the life cycle of the object.
Program learning	Selective component block 01 (Economics and management of
outcomes of	construction business)
specialization(PLOS)	PLOS1.1. Apply international requirements and domestic regulations to the conclusion and insurance of construction contracts and the formation of internal and external contractual relations in construction. PLOS1.2. To substantiate financial decisions in the construction business using methods, tools and levers of financial management. PLOS1.3. Apply methodological principles of rationing and accounting of resources in construction to manage material, technical, and labor resources and ensure the efficiency of production processes of construction companies. Selective component block 02 (Economics and management of a construction company) PLOS2.1. To substantiate the production program, form the production and organizational structure, plan, organize, control and regulate the economic activity of the construction company and its divisions. PLOS2.2. To substantiate management decisions on the formation, distribution and efficient use of financial resources, optimization of cash flow of the construction company based on the use of the financial mechanism. PLOS2.3. Substantiate the policy of conduct and contractual relations in the construction process both within the enterprise and with environmental agents (customers, contractors, regulatory authorities, suppliers, transport and logistics organizations, financial market participants, legal institutions, state and local authorities).
Communication	1. Reporting to specialists and non-specialists information, ideas,
(COM)	problems, solutions and personal experience in the field of
	professional activity.
Autonomi	2. The ability to effectively form a communication strategy.
Autonomy	1. Management of complex actions or projects, responsibility for
and responsibility (AaR)	decision-making in unpredictable conditions.
	2. Responsibility for professional development of individuals and / or
	groups of individuals, ability to further study with a high level of
	autonomy.

8 - Resource support for the implementation of the program			
The main characteristics	80% of scientific and pedagogical workers involved in teaching		
of staffing	professionally oriented disciplines on specialty C1 Economics and		
	International Economic Relations", have scientific degrees and		
	academic titles. All scientific and pedagogical staff have undergone		
	relevant internships and advanced training, including abroad.		
The main characteristics	Use of modern software:		
of material and technical	Excel, ABK-5, AC-4 - software products for investor budget		
providing	documentation calculation, contract prices and construction works		
	execution acts forming;		
	AS-4-graph, MS Project - software products for work schedules		
	planning and construction, the resource support calculation;		
	Audit Expert - a system for analyzing the enterprise's financial and		
	economic condition;		
	Autodesk Revit, CMeta-P - the design system of VIM modeling and		
	the program of data conversion into the cost-based normative base;		
	Statistica for Windows - a system for processing statistical data;		
	Project Expert - project management systems;		
	FMS Diamond - Financial Management System;		
	ARENA - simulation system;		
	Rune WFI - business process management and administration of		
	regulations;		
500	All Fusion Process Modules - Business Process Modeling System.		
The main characteristics	The use of the virtual learning environment of the Lviv Polytechnic		
of informational and	National University and the author's development of scientific and		
methodical support	pedagogical workers.		
N. C. LO BOND	9 – Academic mobility		
National Credit Mobility	On the basis of bilateral agreements between the Lviv Polytechnic		
The state of the s	National University and technical universities of Ukraine.		
International Credit	On the basis of bilateral agreements between the Lviv Polytechnic		
Mobility	National University and universities of foreign partner countries.		
Teaching of foreign	It is possible in two language (Ukrainian, English)		
applicants for higher education			
education			

2. Distribution of content of Educational-professional program according to groups of components and preparation cycles

№		The amount of learning capacity of the applicant of higher education (credits / %)		
s/n	Preparation cycle	Mandatory components of educational-	Selective components of educational- professional program	In total for the whole period of
		professional program		study
1.	General preparation cycle	3/3	3/3	6/6
2.	Cycle of professional preparation	64/71	20/23	84/94
In total for the whole period of study		67/74	23/26	90/100

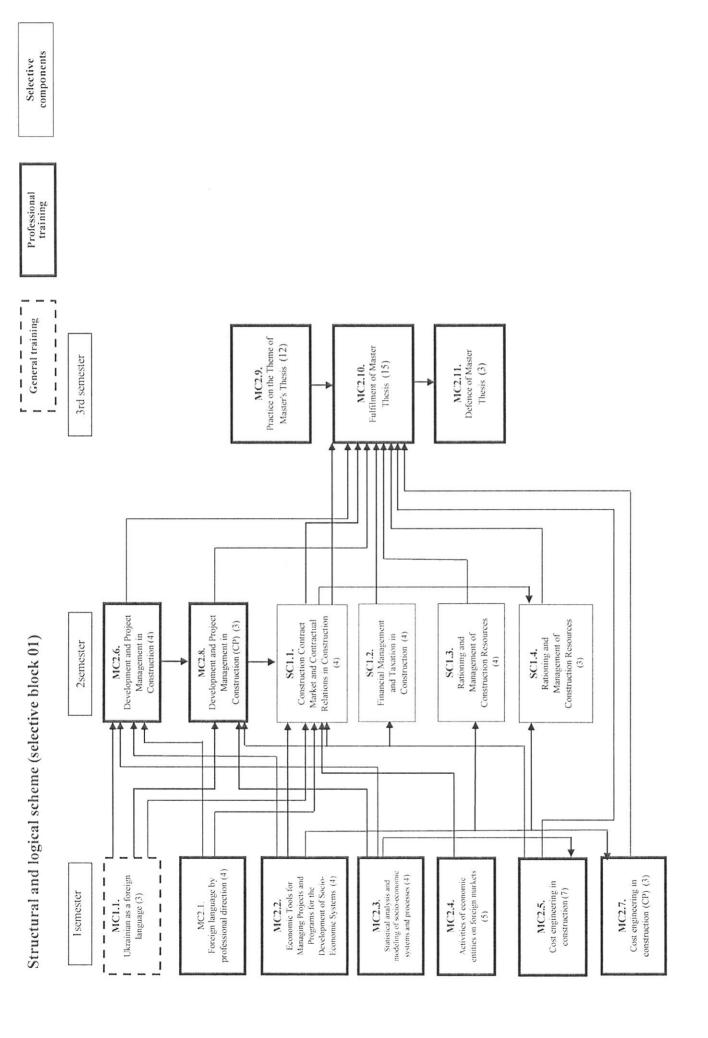
3.List of components of the Educational-professional program

Code			
		Components	Form of
	Component' name EP	amount in credits	final control
		ECTS	Tinar control
1	2	3	4
	MANDATORY COMPONENTS OF SI	PECIALTY	
	I. General training cycle		
MC1.1. Ul	krainian as a foreign language	3	credit with
			mark
	In total for a cycle:	3	
	II. Cycle of professional train	ing .	
MC2.1. Fo	oreign language by professional direction	4	credit with
			mark
MC2.2. Ec	conomic Tools for Managing Projects and	4	exam
	ograms for the Development of Socio-		ACAT STATE OF STATE O
	conomic Systems		
	atistical analysis and modeling of socio-	4	credit with
	onomic systems and processes		mark
	ctivities of economic entities on foreign	5	exam
	arkets		
MC2.5. Co	ost engineering in construction	7	exam
MC2.6 De	evelopment and Project Management in	4	credit with
	onstruction		mark
MC2.7 Co	ost engineering in construction (CP)	3	credit with
			mark
MC2.8 De	evelopment and Project Management in	3	credit with
	onstruction (CP)	7	mark
	actice on the Theme of Master's Thesis		credit with
			mark
MC2.10 Fu	Ilfilment of Master Thesis	15	PQW
MC2.11 De	efence of Master Thesis	3	

	In total for a cycle:	47	
Together fo	r mandatory components of specialty:	50	
	Selective component of the educational-pro	ofessional progr	am
	I. General training cycle		
	In total for a cycle:	3	credit with mark
	H. Cools of mafassional tusin	in a	IIIark
	II. Cycle of professional train Selective component block		
Salaativa	component block 01(Economics and manager		ion husiness)
SC1.1.	Construction Contract Market and	4	credit with
501.1.	Contractual Relations in Construction		mark
SC1.2.	Financial Management and Taxation in Construction	4	exam
SC1.3.	Rationing and Management of Construction Resources	4	exam
SC1.4.	Rationing and Management of Construction Resources (CP)	3	credit with mark
Selective c	omponent tblock 02 (Economics and managen	nent of constructi	ion companies)
SC2.1.	Construction Enterprise Activity Planning and Organizing	4	exam
SC2.2.	Construction Enterprises Financial Management	4	exam
SC2.3.	Construction Business and Contractual Relations in Construction	4	credit with mark
SC2.4.	Construction Enterprise Activity Planning and Organizing (CP)	3	credit with mark
	In total:	15	
	Selective components of other educational pr	ofessional progra	ıms
In total:	,	5	credit with mark
In total wit	th the selective components	23	
	educational-professional program:	90	

4. Form of attestation of applicants for higher education

Form of attestation of applicants for higher education	Certification is carried out in the form of public defense of the qualification work.
Requirements for qualification work (if available)	Qualification work should involve solving a complex specialized task or a practical complex problem or problem in the economic field that requires research and / or innovation and is characterized by uncertainty of conditions and requirements. There should be no academic plagiarism, falsification or writing off in the qualification work. Qualification work must be published on the official website or in the repository of the National University "Lviv Polytechnic". Publication of qualification works containing information with limited access should be carried out in accordance with the requirements of current legislation.



5. Matrix of compliance of program competences with the educational components "

	MC1.1.	MC2.1.	MC2.2	MC2.3.	MC2.4.	MC2.5.	MC2.6.	MC2.7.	MCS3.1	MCS3.2	MCS3.3	MCS3.4	SC1.1	SC1.2	SC1.3	SC1.4	SC2.1	SC2.2	SC2.3	SC2.4
InC	•	•	•	•	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•
GC1	•	•	•	•	•	•	•		•	•	•	•		•	•	•	٠	•		•
GC2	•	•	•	•	•			•	•	•	•	•		•			•	•		
GC3						•				•		•		•			•	•		•
GC4		•	•		•	•	•	•	•	•			•	•				•	•	
GC5	•					•			•		٠						•			•
GC6			•			•	•		•		•	•			•	•	•			•
GC7		•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
GC8	•					•	•	•		•		•			•	•				
PC1		•						0	•	•	•	•	•	•	•	•	•	•	•	•
PC2	•				•			•	•				•							
PC3	•					•	•			•		•	•			•			•	•
PC4	•	•	•	•		•	•		•	•	•	•		•	•	•	•	•		•
PC5	•								•		•		•						•	
PC6						•	•		•	•	•	•		•	•	•	•	•		•
PC7					•		•		•	•	•	•		•	•	•	•	•		•
PC8							•		•		•		•	•			•	•	•	•
PC9	_		•						•						•	•	•			•
PC10	_		•	1			-		•			•					•			•
PC11		1	•						•	•	•	•					•			•
PCS1	-	1		1					•											
PCS2	_									•		•								
PCS1.1													•							
PCS1.2														•						
PCS1.3															•	•				
PCS2.1																	•			•
PCS2.2																		•		
PCS2.3																			•	

Conditional notations: MCi – mandatary component, SCi – selective discipline, i – the number of disciplines in the list of components of educational constituent, InC – integral competence, GCj – general competence, PCj – special competence, j – number of competence in the list of competencies of the educational constituent.

6. The matrix of providing programme learning results to the relevant components of the Master's educational program"

	MC1.1.	MC2.1.	MC2.2	MC2.3.	MC2.4.	MC2.5.	MC2.6.	MC2.7.	MCS3.1	MCS3.2	MCS3.3	MCS3.4	SC1.1	SC1.2	SC1.3	SC1.4	SC2.1	SC2.2	SC2.3	SC2.4
PLO1	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
PLO2	•	•					•		•	•	•	•	•	•	•	•	•	•	•	•
PLO3	•				•		•	•	•				•							
PLO4			•						•		•						•			•
PLO5	•	•	•	•	•	•	٠		•	•	•	•	•	•	•	•	•	•	•	•
PLO6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PLO7			•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	٠
PLO8	•					•	•				•	•				•				•
PLO9	•	•	•	•			•			•		•			•	•				•
PLO10	•	•							•	•	•	•		•	•	•	•	•		•
PLO11	•	•	•		•	•	٠		•	•	•	•	•	•			•	•		•
PLO12	•	•	•		•		•		•	•		•	•				•	•	•	•
PLO13		•	•		•	•	•		•	•	•	•	•	•			•	٠	•	•
PLO14		•		•		•	•		•	•	•	•					•			•
PLO15			•						•		•					•	•			•
PLOS1									•		•									
PLOS2										•		•								
PLOS1.1													•							
PLOS1.2														•						
PLOS1.3															•	•				
PLOS2.1																	•			•
PLOS2.2																		•		
PLOS2.3																			•	
COM1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
COM2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AaR1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AaR2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Conditional denotations: MCi- mandatary discipline, SCi- selective discipline, i- the number of disciplines in the list of components of educational constituent, PLOj- programm results (of specialty), PLOSj- program results (of specialization), COMj- program results (communication), AaRj- program results (autonomy), j number of competence in the list of competencies of the educational constituent.