

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
National technical university  
“Kharkiv polytechnic institute”

**APPROVED**

The Rector of NTU “KhPI”

\_\_\_\_\_ Yevgen SOKOL

« \_\_\_\_ » \_\_\_\_\_ 20\_\_

**EDUCATIONAL AND PROFESSIONAL PROGRAMME**  
**«BUSINESS ADMINISTRATION»**  
**(In English)**

The first (bachelor) level of higher education  
in specialty **073 – Management**  
in the field of knowledge **07 – Management and Administration**  
qualification **Bachelor of Management**

**APPROVED BY**  
**THE ACADEMIC COUNCIL OF NTU “KhPI”**

The Head of the Academic Council

\_\_\_\_\_ / Leonid TOVAZHNYANSKYI

Protocol № \_\_\_\_\_

dated « \_\_\_\_ » \_\_\_\_\_ 20\_\_

Kharkiv 2021

**APPROVAL SHEET**  
**for the educational and professional programme**

Level of higher education	First (bachelor)
Field of knowledge	07 Management and Administration
Specialty	073 «Management»
Educational programme	Business Administration
Qualification	Bachelor of Management

**DEVELOPED**  
by the project group in the specialty  
"Management"  
Guarantor of the educational programme

\_\_\_\_\_ Olena PROKHORENKO

« \_\_\_\_ » \_\_\_\_\_ 20\_\_ p.

**RECOMMENDED**  
by the Methodological Council  
of NTU "KhPI"  
Deputy Head of  
the Methodological Council

\_\_\_\_\_ Ruslan MYGUSHCHENKO

« \_\_\_\_ » \_\_\_\_\_ 20\_\_

**AGREED**  
Head of the Department of  
Management and Taxation

\_\_\_\_\_ Nataliia KRASNOKUTSKA

« \_\_\_\_ » \_\_\_\_\_ 20\_\_ .

**AGREED**  
Director of the Institute of Education and  
Science in Economics, Management and  
International Business

\_\_\_\_\_ Oleksandr MANOYLENKO

« \_\_\_\_ » \_\_\_\_\_ 20\_\_

**APPROVED AND PUT INTO EFFECT**

by the Order of the Rector of National technical university "Kharkiv polytechnic institute" of  
« \_\_\_\_ » \_\_\_\_\_ 20\_\_ № \_\_\_\_\_ .

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## **FOREWORD**

This programme was developed by the project group formed by the departments of management and taxation at the Institute of Education and Science in Economics, Management and International Business of National technical university “Kharkiv polytechnic institute”. The project group consisted of:

**The Head of the project group** (the programme guarantor) – Olena Prokhorenko, PhD (Management), associate professor of the department of management and taxation.

**The members of the project group:**

1. Krasnokutska Nataliia - DSc (Economics&Management), Professor, head of the Department of Management and Taxation.
2. Danko Taras, - PhD (Management), Associate Professor, Professor of the Department of International Business and Finance.
3. Suslikov Stanislav - PhD (Management), Associate Professor, Associate Professor of the Department of Management of Innovative Entrepreneurship and International Economic Relations.
4. Linkova Olena - PhD (Management), Associate professor, Associate professor of the Department of Management and Taxation.
5. Chaikova Olena - PhD (Management), Associate Professor, Associate Professor of the Department of International Business and Finance.
6. Ohrysko Arina, 3rd year student

### **Reviews from external stakeholders:**

**From employers:**

LLC NPO "Vertical", Yu. Bagryantseva

LLC Sigma Software, T. Podoprykhina

LLC ISPE "Aris"Ltd, V. Lebedynets

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## I. PROFILE OF THE EDUCATIONAL AND PROFESSIONAL PROGRAMME IN SPECIALTY 073 – MANAGEMENT

<b>1 – General information</b>	
Full name of higher educational institution and structural unit	National technical university “Kharkiv polytechnic institute”; the institute of education and science in economics, management and international business; the department of management and taxation
The degree of higher education and qualification title	Bachelor, Bachelor of Management
Official name of the educational programme	The educational and professional programme “Business Administration” (In English)
Type of diploma and scope of the educational programme	Unitary, 240 ECTS credits, term of study - 4 years
Availability of accreditation	Certificate НД № 2192162, valid until July 1, 2025
Cycle/level	National Qualification Framework (Ukraine) – level 7, EQF LLL – Level 6; QF EHEA – First cycle
Prerequisites	Complete secondary education
Language of instruction	Ukrainian
The period of validity of the educational programme	Valid until July 1, 2025
Internet-address of the permanent description of the educational programme	<a href="http://www.kpi.kharkov.ua/ukr/">http://www.kpi.kharkov.ua/ukr/</a>
<b>2 – The purpose of the educational programme</b>	
To train professionals capable of solving practical problems and complex specialized tasks in the sphere of business management, due to developing a system of professional competencies	
<b>3 – Characteristics of the educational programme</b>	
Subject area (field of knowledge, specialty, specialization)	07 Management and Administration 073 Management
Orientation of the educational programme	The educational and professional programme has a practical orientation. The programme’s emphasis is on the formation of capabilities for carrying out administrative, entrepreneurial, and analytical activities using modern approaches and methods of managing business.
The main focus of the educational programme and specialization	Comprehensive general education in specialty 073 «Management». Keywords: management, organization, business, strategic management, planning, designing, entrepreneurship
Features of the programme	The programme is based on paradigms, laws, regularities, principles of management, and the historical background of its development. Specialized subject areas include cross-sectoral aspects of the development and making managerial decisions and are aimed at training specialists in the field of business, based on modern results and trends in business management. The programme provides

	training in English
<b>4 – Suitability of graduates for employment and further training</b>	
Suitability for employment	Graduates can be employed in the following groups of positions (according to the National classifier of Ukraine: Classification of occupations SC 003:2010) : 14. Managers (administrators) of enterprises, establishments, organizations, and their departments. 34. Other professionals. 343. Technical professionals in the sphere of management.
Further training	Graduates can continue their studies at the second (master’s) level of higher education, as well as can get advanced training and acquire additional, post-qualifying education.
<b>5 – Teaching and assessment</b>	
Teaching and learning	Student-centered teaching in the form of lectures, seminars, practical classes, consultations. Classroom activities are supplemented by students’ independent work, preparation of term papers based on working with textbooks, and scientific periodicals, data on the activities of business structures, and using the Internet resources/
Assessment	The rating system of assessment, presentations, project work, examinations, defense of internship reports, public defense of the qualification (bachelor’s) work.
<b>6 – Programme competencies</b>	
Integral competency	The ability to solve complex specialized tasks and practical problems characterized by complexity and uncertainty of conditions in the management sphere or in the learning process, which involves the application of theories and methods of social and behavioral sciences The study of Ukrainian practice took into account the competencies that determine the regional context.
Generic competencies (GC)	GC01. The ability to realize own rights and responsibilities as a member of society, understand the values of civil (democratic) society and the need for its sustainable development, rule of law, human and civil rights, and freedoms in Ukraine. GC02. The ability to maintain and to increase the moral, cultural, scientific values and to increase achievements of society by understanding the history and patterns of data domain development, its place in the overall knowledge system about nature and society and in the development of society, techniques, and technologies, to use different types and forms of motor activity for recreation and healthy lifestyles. GC03. The ability to abstract thinking, analysis, synthesis. GC04. The ability to apply knowledge in practical situations. GC05. Knowledge and understanding the subject area and understanding the professional activity. GC06. The ability to communicate by the national language both orally and in writing. GC07. The ability to communicate in a foreign language. GC08. Skills of information and communication technology usage. GC09. The ability to learn and to master modern knowledge. GC10. The ability to conduct research at an appropriate level. GC11. The ability to adapt and perform in a new situation.

	<p>GC12. The ability to generate new ideas (creativity).</p> <p>GC13. The appreciation and respect for diversity and multiculturalism.</p> <p>GC14. The ability to work in an international context.</p> <p>GC15. The ability to act on the basis of ethical grounds (reasons).</p>
Professional (specialty-specific) competencies (SC)	<p>SC01. The ability to identify and describe the characteristics of organizations.</p> <p>SC02. The ability to analyze the results of organization activity, to compare them with the factors of the external and internal environment.</p> <p>SC03. The ability to identify prospects of organization development.</p> <p>SC04. The ability to determine the functional areas of the organization and the relationships between them.</p> <p>SC05. The ability to manage the organization and its units through the management functions realization</p> <p>SC06. The ability to act socially responsible and consciously.</p> <p>SC07. The ability to choose and to use modern tools of management.</p> <p>SC08. The ability to plan the organization activity and to manage the time.</p> <p>SC09. The ability to generate business ideas, to justify the feasibility and forms of their implementation as well as present them to stakeholders</p> <p>SC10. The ability to work in a team and to establish interpersonal interaction in solving professional tasks.</p> <p>SC11. The ability to create and manage effective communication in the process of management.</p> <p>SC12. The ability to analyze and structure the problems of an organization, to form reasonable decisions.</p> <p>SC13. To understand the principles and rules of law and to use them in a professional activity.</p> <p>SC14. To understand the principles of psychology and use them in a professional activity.</p> <p>SC15. The ability to form and demonstrate leadership and behavioral skills.</p> <p>SC16. The ability to assess the performed works, to ensure their quality and to motivate the staff of organization.</p>
Professional (specialty-specific) competencies for optional block 01 «Business Administration»	<p>SSC1.1. Understanding of modern approaches to supply chain management</p> <p>SSC1.2. The ability to describe business processes in supply chains and to manage material, information, financial and other flows</p> <p>SSC1.3. The ability to analyze and to plan the behavior of the organization in the field of social media</p> <p>SSC1.4 Knowing the technology of promoting a site, product or person in social media</p>
Professional (specialty-specific) competencies for optional block 02	<p>SSC2.1. The ability to collect and to process the primary accounting and managerial information; to understand and to be able to apply accounting and taxation systems</p> <p>SSC2.2. The ability to identify areas of investment and to justify the effectiveness of real and financial investments.</p> <p>SSC2.3. To understand the principles and methods of business</p>

	<p>evaluation and to use them in professional activities</p> <p>SSC2.4 The ability to formulate the main tasks related to the implementation of risk management and insurance in business</p>
<b>7 – Programme learning outcomes</b>	
Specialty-specific programme learning outcomes	<p>LO 01. To know the rights and duties as a member of society, be aware of the values of civil society, the rule of law, human and citizen rights, and freedoms in Ukraine.</p> <p>LO 02. To keep moral, cultural, scientific values and to increase achievements of society, to use different types and forms of effective activity for maintaining a healthy lifestyle.</p> <p>LO 03. To demonstrate knowledge of theories, methods and functions of management, modern concepts of leadership.</p> <p>LO 04. To show skills of identification of problems and justification of management decisions.</p> <p>LO 05. To describe the content of the functional areas of the organization</p> <p>LO 06. To show skills of search, collecting, and analysis of information, calculation of indicators to substantiate management decisions.</p> <p>LO 07. To show skills of organizational planning.</p> <p>LO 08. To apply management methods to ensure the effectiveness of the organization.</p> <p>LO 09. To plan and to organize an operational activities, to manage the business entity resources effectively.</p> <p>LO 10. To demonstrate skills of interaction, leadership, and teamwork.</p> <p>LO 11. To demonstrate the skills of analyzing the situation and communicating in various areas of the organization's activities.</p> <p>LO 12. To evaluate the legal, social, and economic implications of an organization's functioning.</p> <p>LO 13. To communicate in an oral and written form in the state and foreign languages.</p> <p>LO 14. To identify the stress reasons, to adapt yourself and members of the team to a stressful situation, to find means to its neutralization.</p> <p>LO 15. To show the ability to act socially responsibly and socially consciously on the basis of ethical reasons (motives), respect for a variety, and interlevel of culture.</p> <p>LO 16. To demonstrate skills of independent work, flexible thinking, openness to new knowledge, be critical and self-critical.</p> <p>LO 17. To conduct researches individually and/or in a group under the leadership of the leader.</p>
Programme learning outcomes for optional block 01	<p>LO1.1. To have the skills to justify effective tools to motivate the organization's staff.</p> <p>LO1.2. To evaluate the effectiveness of supply chain management and to identify areas for optimization</p> <p>LO1.3. To develop marketing strategies in social networks, to apply web-analysis to assess their effectiveness</p> <p>LO1.4. To create content vectors for filling up social networks pages or communities</p>
Programme learning outcomes for optional	<p>LO2.1. To describe the content of the taxation system; to make tax calculations.</p>



block 02	<p>LO2.2. To evaluate the business and its elements (including securities) using modern methods</p> <p>LO2.3. To make calculations and to evaluate the effectiveness of real and financial investments</p> <p>LO2.4. To adapt existing methods and approaches to various business tasks, to perform the functions of a business integrator, to plan and to manage time resources.</p>
<b>8 - Resource support for the implementation of the programme</b>	
Personnel support	Meets the staffing requirements related to conducting educational activities in the sphere of higher education in accordance with current legislation of Ukraine (the Resolution of the Cabinet of Ministers of Ukraine “On approval of the licensing conditions for conducting educational activities of educational institutions” of December 30, 2015, № 1187 (with the changes introduced in accordance with the Resolution of CM № 347 of 10.05.2018)
Material and technical support	Meets the technical requirements related to the material and technical base of educational activities in the sphere of higher education in accordance with current legislation of Ukraine (the Resolution of the Cabinet of Ministers of Ukraine “On approval of the licensing conditions for conducting educational activities of educational institutions” of December 30, 2015, № 1187 (with the changes introduced in accordance with the Resolution of CM № 347 of 10.05.2018)
Informational support and availability of instructional materials	Meets the technical requirements regarding informational support and availability of instructional materials for educational activities in the sphere of higher education in accordance with current legislation of Ukraine (the Resolution of the Cabinet of Ministers of Ukraine “On approval of the licensing conditions for conducting educational activities of educational institutions” of December 30, 2015, № 1187 (with the changes introduced in accordance with the Resolution of CM № 347 of 10.05.2018)
<b>9- Academic mobility</b>	
National Credit Mobility	Academic mobility is based on bilateral agreements between the National technical university “Kharkiv polytechnic institute” and other Ukrainian higher educational institutions
International Credit Mobility	Academic mobility is based on bilateral agreements between National technical university “Kharkiv polytechnic institute” and Miskolc University (Hungary), Maribor University (Slovenia), Otto von Guericke University Magdeburg (Germany), University of Szczecin (Poland)
Training of foreign applicants for higher education	Students are offered the opportunity to study in English.

## 2. The list of components of the educational and professional programme

Code	Components of the educational programme	Number of credits	Form of final assessment
1	2	3	4
<b>1.Obligatory components of EP</b>			
<i>1.1.General training</i>			
GT 1	History of Ukraine and Ukrainian culture	4,0	Exam
GT 2	Ukrainian Language	3,0	Exam
GT 3	Foreign Language*	16,0	Credit, Exam
GT 4	Philosophy	3,0	Exam
GT 5	Jurisprudence	4,0	Credit
GT 6	Economic Theory	5,0	Exam
GT 7	Higher Mathematics	6,0	Exam
GT 8	Fundamentals of Entrepreneurship	5,0	Credit
GT 9	Economic Informatics	5,0	Exam
GT 10	Microeconomics	5,0	Exam
GT 11	Economic Statistics	4,0	Exam
GT 12	Macroeconomics	5,0	Exam
GT	Physical education	12,0	Credit
<i>1.2.Professional training</i>			
PT 1	Introduction to Speciality (Introductory practice)	3,0	Credit
PT 2	Theory of Organization	5,0	Credit
PT 3	Finance	6,0	Exam
PT 4	Enterprise Economics	6,0	Exam
PT 5	Marketing	5,0	Exam
PT 6	Fundamentals of Management	8,0	Credit, Exam
PT 7	Fundamentals of Business Analysis	6,0	Credit
PT 8	International Business	5,0	Exam
PT 9	Human Resource Management	6,0	Exam
PT 10	Accounting	5,0	Credit
PT 11	Business Planning	4,0	Exam
PT 12	Self-management	4,0	Exam
PT 13	Fundamentals of Financial Management	4,0	Exam
PT 14	Innovation Management	5,0	Exam
PT 15	Information Technology in Management	3,0	Exam
PT 16	Performance Management	5,0	Exam
PT 17	Strategic Management	5,0	Exam
PT	Practical Training*	6,0	Credit
PT	Pre-graduation Practice*	6,0	Credit
	Attestation	6,0	
<b>Total amount for obligatory components</b>		<b>180</b>	
<b>2. Optional components of EP</b>			
<i>2.1. Profile training</i>			
<i>2.1.1. Profiled discipline package 01 "Business Relationship Management"</i>			
OP1.1	Leadership	4,0	Exam
OP1.2	Business Communications	5,0	Exam
OP1.3	Organizational Behavior	4,0	Exam

OP1.4	Supply Chain Management	5,0	Exam
OP1.5	SMM Management	6,0	Exam
<b>2.1.2 Profiled discipline package 02 "Financial support of business"</b>			
OP2.1	Fundamentals of Taxation	4,0	Exam
OP2.2	Investment	5,0	Exam
OP2.3	Business Valuation	4,0	Exam
OP2.4	Managerial and Tax Accounting	5,0	Exam
OP2.5	Risk Management	6,0	Exam
<b>2.2 Optional student disciplines of the profile preparation according to the list</b>		<b>25,0</b>	<b>Credit</b>
OPT1	Organizational Behaviour	5,0	Credit
OPT2	Econometrics	5,0	Credit
OPT3	Tax System	5,0	Credit
OPT4	Social Responsibility	5,0	Credit
OPT5	Mathematical Modelling in Management	5,0	Credit
OPT6	Operational Management	5,0	Credit
OPT7	Resources Management	5,0	Credit
OPT8	Managerial Decisions	5,0	Credit
OPT9	Crisis Management	5,0	Credit
OPT10	Team Management Tools	5,0	Credit
OPT11	Production Logistic	5,0	Credit
OPT12	Fundamentals of Project Management	5,0	Credit
OPT13	Quality Management	5,0	Credit
OPT14	Security Market	5,0	Credit
OPT15	Electronic Business	5,0	Credit
OPT16	Ecology	5,0	Credit
OPT17	Fundamentals of Occupational Safety and Health	5,0	Credit
<b>2.3 Optional student disciplines from the general university catalogue of disciplines</b>			
OD1	Discipline 1	4,0	Credit
OD2	Discipline 2	3,0	Credit
OD3	Discipline 3	4,0	Credit
<b>Total amount for optional components</b>		<b>60</b>	
<b>TOTAL AMOUNT FOR THE EDUCATIONAL PROGRAMME</b>		<b>240</b>	

\* - for foreign students the course "Ukrainian as a foreign language" is taught

**4. ALLOCATION OF THE CONTENT OF THE EDUCATIONAL PROGRAMME AMONG GROUPS OF COMPONENTS AND TRAINING CYCLES**

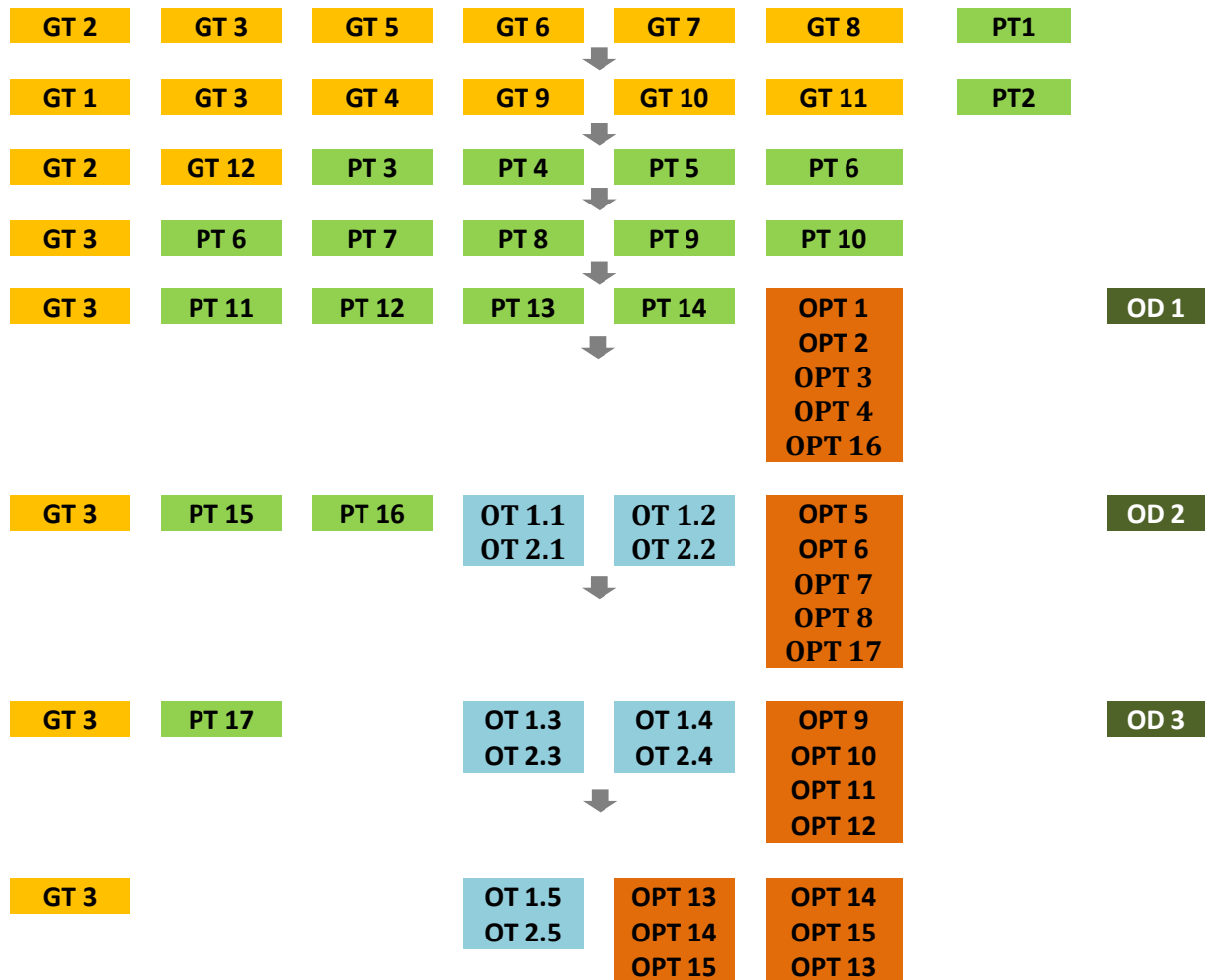
№	Training cycle	Academic load on applicants for higher education (credits / %)		
		Obligatory components of the educational and professional programme	Optional components of the educational and professional programme	Total number for the entire period of study
1	2	3	4	5
1	General training cycle	77 / 32	11 / 4,6	88 / 37
2	Professional and practical training cycle	103 / 43	49 / 20,4	152 / 63
Total number for the entire period of study		180 / 75	60 / 25	240 / 100

**5. FORM OF CERTIFICATION OF APPLICANTS FOR HIGHER EDUCATION**

Certification of graduates of the educational programme in specialty 073 «Management» is carried out in the form of a public defence of the qualification work and ends with the issuance of the document of a standard form on awarding a Bachelor's degree and the qualification "Bachelor of Management".

The attestation takes place openly and publicly.

### 3. STRUCTURAL-LOGICAL SCHEME OF THE EDUCATIONAL PROGRAMME



## 6. Matrix of correspondence between programme competencies and components of the educational programme

	GT 1	GT 2	GT 3	GT 4	GT 5	GT 6	GT 7	GT 8	GT 9	GT 10	GT 11	GT 12	GT	PT 1	PT 2	PT 3	PT 4	PT 5	PT 6	PT 7	PT 8	PT 9	PT 10	PT 11	PT 12	PT 13	PT 14	PT 15	PT 16	PT 17	PT pt	PT pg		
GC01	+			+	+																													
GC02	+			+	+								+																					
GC03				+		+	+		+	+	+	+			+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+			
GC04								+	+		+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
GC05						+		+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
GC06		+																														+	+	
GC07			+																		+												+	+
GC08			+					+																									+	
GC09	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
GC10												+	+									+		+										+
GC11		+													+	+						+		+	+			+						
GC12								+							+									+			+							+
GC13			+																			+	+		+									
GC14			+																			+		+										
GC15								+							+	+						+												
SC01															+	+		+	+	+				+	+		+			+	+	+	+	
SC02																+	+		+	+	+					+			+	+	+	+	+	
SC03																		+	+	+				+			+			+	+	+	+	
SC04																+	+	+						+					+	+	+	+	+	
SC05																			+										+	+				
SC06																		+	+				+		+				+	+				
SC07																			+				+	+	+		+		+	+	+	+	+	
SC08																			+					+	+		+		+	+				
SC09																								+			+							
SC10																							+	+	+									
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SC13				+																			+	+										
SC14																							+		+									
SC15																							+		+									
SC16																		+									+							

**Table 6 (continued). Matrix of correspondence between programme competencies and components of the programme**

	OP 1.1	OP 1.2	OP 1.3	OP 1.4	OP 1.5	OP 2.1	OP 2.2	OP 2.3	OP 2.4	OP 2.5	OPT 1	OPT 2	OPT 3	OPT 4	OPT 5	OPT 6	OPT 7	OPT 8	OPT 9	OPT 10	OPT 11	OPT 12	OPT 13	OPT 14	OPT 15	OPT 16	OPT 17	
GC01						+							+						+				+	+				
GC02																											+	+
GC03			+							+		+			+		+				+							
GC04	+	+	+	+	+		+	+			+	+				+	+		+	+	+							
GC05	+	+	+	+	+												+		+	+								
GC06	+	+		+	+																+							
GC07	+	+																			+							
GC08		+		+	+	+	+			+			+						+		+				+	+		
GC09			+	+	+			+		+						+	+									+	+	
GC10								+		+					+	+	+						+					
GC11	+		+					+		+									+									
GC12	+						+												+			+						
GC13	+	+	+											+							+							
GC14				+	+																					+		
GC15	+		+																							+	+	
SC01			+		+						+						+							+				
SC02				+		+	+	+	+	+		+	+							+		+		+	+			
SC03							+	+											+	+			+			+		
SC04				+													+							+				
SC05											+					+												
SC06	+		+																								+	+
SC07	+	+	+	+	+						+	+									+	+				+		
SC08				+			+		+			+				+			+		+	+						
SC09		+						+						+	+				+				+	+	+			
SC10	+	+	+								+			+					+		+	+	+					
SC11	+	+	+		+						+										+		+			+		
SC12																			+	+			+					
SC13	+					+							+							+					+		+	+
SC14	+	+								+	+								+		+							
SC15	+		+								+																	
SC16										+		+							+		+		+					
SSC 1.1	+		+	+	+						+									+		+						
SSC 1.2	+		+	+							+																	
SSC 1.3	+	+			+															+								
SSC 1.4		+			+																					+		
SSC 2.1.						+			+				+						+						+			
SSC 2.2.						+	+	+	+	+			+													+		
SSC 2.3.							+	+		+											+							
SSC 2.4										+									+				+					

### 7. Matrix of correspondence between programme learning outcomes (LO) and components of the educational programme

	GT 1	GT 2	GT 3	GT 4	GT 5	GT 6	GT 7	GT 8	GT 9	GT 10	GT 11	GT 12	GT	PT 1	PT 2	PT 3	PT 4	PT 5	PT 6	PT 7	PT 8	PT 9	PT 10	PT 11	PT 12	PT 13	PT 14	PT 15	PT 16	PT 17	PT pt	PT pg			
LO 1					+			+																+											
LO 2	+			+									+																						
LO 3														+					+			+		+	+	+	+	+	+	+					
LO 4									+										+		+		+	+	+	+	+	+	+	+	+	+	+		
LO 5														+	+		+	+	+			+		+		+	+		+	+	+	+	+		
LO 6									+		+						+	+				+	+		+		+				+	+			
LO 7								+															+	+									+		
LO 8																						+				+			+	+	+	+			
LO 9														+								+		+											
LO 10																			+			+		+						+					
LO 11																					+	+		+											
LO 12						+				+		+								+						+			+						
LO 13		+	+														+	+			+	+										+	+		
LO 14																		+			+			+											
LO 15								+										+																	
LO 16	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
LO 17																				+				+		+		+		+	+	+	+		



**Table 7 (continued). Matrix of correspondence between programme learning outcomes (LO) and components of the educational programme**

	OP 1.1	OP 1.2	OP 1.3	OP 1.4	OP 1.5	OP 2.1	OP 2.2	OP 2.3	OP 2.4	OP 2.5	OPT 1	OPT 2	OPT 3	OPT 4	OPT 5	OPT 6	OPT 7	OPT 8	OPT 9	OPT 10	OPT 11	OPT 12	OPT 13	OPT 14	OPT 15	OPT 16	OPT 17	
LO 1						+							+	+			+		+									
LO 2			+								+			+										+			+	+
LO 3			+								+			+										+	+			
LO 4	+	+	+								+	+			+			+	+	+	+	+	+	+	+			
LO 5					+									+						+				+	+	+		
LO 6				+	+		+	+	+	+		+			+	+		+	+		+	+	+	+	+	+		
LO 7			+	+			+	+	+		+			+			+	+					+					
LO 8	+	+						+							+	+					+	+			+		+	+
LO 9				+		+		+						+			+	+	+				+		+			
LO 10	+	+						+		+				+							+							
LO 11	+	+	+								+									+	+		+					
LO 12		+	+		+	+	+	+		+	+		+	+				+		+					+	+		
LO 13		+	+	+	+						+			+							+						+	
LO 14	+		+			+			+		+										+							+
LO 15		+		+	+									+			+			+						+		
LO 16	+			+	+	+	+	+	+	+			+	+		+	+	+							+	+		
LO 17		+	+		+				+	+	+			+						+		+			+		+	
LO 1.1	+	+												+				+	+	+								
LO 1.2				+														+				+		+				
LO 1.3		+	+		+						+															+		
LO 1.4		+			+																					+		
LO 2.1						+			+				+															
LO 2.2							+			+										+					+			
LO 2.3							+		+				+		+							+						
LO 2.4							+	+								+	+											