3. Educational programme

Head of the project group (Director of the Bachelor's degree programme) – Shtunder I.O., Doctor of Sciences in Economics, Professor of the Department of Economics and Competition Policy

3.1. Profile of the educational programme «Industrial Markets Economics» in subject area 051 «Economics»

	1 – General information
Full name of IHE and	State University of Trade and Economics,
structural subdivision	Faculty of Economics, Management and Psychology
	Department of Economics and Competition Policy
Academic Degree/	
Vocational education and	Bachelor's degree
training Degree and the	Subject area «Economics»
name of the qualification	
in the original language	
The official name of the	«Industrial Markets Economics»
educational program	
Compliance with the	
standard of higher	Comply with the MES standards of higher education of
education of the Ministry	Ukraine
of Education and Science	
of Ukraine	Bachelor's degree, unitary.
	Educational programme Scope:
	- on the basis of complete general secondary education –
	240 ECTS credits, 3 year 10 months;
Type of diploma and the	 on the basis of Qualified Associate Bachelor's degree
volume of the educational	there is a possibility of re-crediting up to 60 ECTS
programme	credits and reducing the period of training to 2 year and
Programme	10 months.
	 on the basis of Associate Bachelor's degree there is a
	possibility of re-crediting up to 120 ECTS credits and
	reducing the period of training to 1 year and 10 months.
	Subject area 051 is accredited by the Accreditation
Availability of	Commission of the Ministry of Education and Science of
accreditation	Ukraine, Ukraine; the validity period for accreditation:
	until 01.07.2026
Cycle / Level	NQF of Ukraine – 6 th level, FQ-EHEA – first cycle, EQF-
	LLL– 6 th level.
	 complete general secondary education;
	 Qualified Associate Bachelor's degree;
Prerequisites	 Associate Bachelor's degree;
	 conditions of admission to the programme and training
	are governed by the Rules of admission to SUTE.
Language(a) after alling	Illendinian
Language(s) of teaching	Ukrainian

Validity of the educational	Aviore
programme	4 years
Internet address of the	
permanent placing of the	https:// knute.edu.ua
educational programme	https:// knutc.cdu.ua
description	
	e purpose of the educational programme
	possess modern economic thinking, theoretical knowledge and
	r their effective analysis of the economic environment of the
_	of functioning and the development of competitive strategies for
market entities.	
	racteristics of the educational programme
Field of study, Subject	Object of study and/or activity: patterns of functioning and
area, educational	development of socio-economic systems, socio-economic
programme	processes, their modeling, forecasting and regulation, motivation and behavior of economic subjects.
	Training goals: training specialists who possess modern
	economic thinking, theoretical knowledge and practical skills
	necessary for solving the tasks of the subject area.
	Theoretical content of the subject area: concepts, categories,
	principles of economic sciences in general and the economics
	of industry markets in particular.
	Methods, techniques and technologies: general scientific
	methods of cognition and research activity, mathematical and
	statistical methods of economic analysis, economic and
	mathematical modeling, information and communication
	technologies of research, dissemination and presentation of
	research results.
	Tools and equipment: modern information and
	communication equipment, information systems and software
	products used in professional activities.
Orientation of the	Educational and professional.
Educational Programme	•
The main focus of the	Acquisition of theoretical knowledge, mastery of skills and
educational programme	technologies of economic analysis at the industrial level,
	formation of effective competitive strategies of individual
	economic entities and their associations.
	Key words: economy, market, industry area, economic
Features of the	analysis, economic policy, competitive behavior. In-depth study of the patterns of functioning of commodity and
educational programme	industry markets, the behavior of market players.
concanonal programme	Creation of an individual trajectory of area specialization of
	students within the educational programme.
4 – Eligibility (of graduates to employment and further training
Eligibility for employment	Workplaces at enterprises of various sectors of the economy, in
	the system of public authorities, primarily in the industry
	ministries and departments.

	Graduates may work in professions according to the
	National Classification of Professions DK 003: 2010:
	2490 Inspector; 2442 Price control Inspector;
	2441.2 Economist; 2441.2 Economic Adviser;
	2441.2 Consultant on Economic Issues; 2441.2 Planning
	Economist;
	2441.2 Economist of pricing; 1317 Agency Manager;
	1231 Head of Planning and Economic Department;
	1238 Project and program Manager in the field of Tangible
	(Intangible) Manufacturing;
	2419.2 Specialist-analyst in Commodity Market research;
	2419.2 Specialist in the efficiency of entrepreneurship; etc.
Further training	Possibility to study according to the FQ-EHEA – the second
	cycle of training in the subject area "Economics";
	Possibility to study according to the FQ-EHEA – the second
	cycle of training in the field of related professional activities:
	legal, marketing, accounting and controlling, education, etc.
	5 – Teaching and assessment
Teaching and training	Balanced combination of classroom work (lectures-
	discussions, seminars, practical classes in small groups using
	case study methods, brainstorming, modeling the behavior of
	economic entities, etc., presentations, consultations with
	tutors), including distance learning with resources of SUTE
	distance platform based on the Moodle, MS Office 365, Zoom,
	and independent work (content analysis of information
	sources, individual and collective project work, etc.) on the
	basis of problem-oriented, interactive learning and self-
	learning.
Assessment	Current control, written exams, qualifying exam. Assessment
	is carried out in accordance with the "Regulations on the
	assessment of learning outcomes of students and PhD study
	students of SUTE", "Regulations on the organization of the
	educational process".
	6 – Programme competencies
Integral competence	Ability to solve complex specialized problems and practical
	problems in the economic sphere in general and at the level of
	industry markets in particular, which are characterized by
	complexity and uncertainty of conditions, that involves the
	application of theories and methods of economics.
General competencies	GC 1. The ability to realize their rights and responsibilities as
(GC)	a member of society, to realize the values of civil
	(democratic) society and the need for its sustainable
	development, the rule of law, human and civil rights and
	freedoms in Ukraine.
	GC 2. Ability to preserve moral, cultural, scientific values and
	increase the achievements of society based on
	understanding the history and patterns of development of
	the subject area, including the Industrial Markets
	are sucject area, morning me inamental frames

Economics, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies; use different types and forms of physical activity for active recreation and a healthy lifestyle. GC 3. Ability to abstract thinking, analysis and synthesis. GC 4. Ability to apply knowledge in practical situations. GC 5. Ability to communicate in the state language both orally and in writing. GC 6. Ability to communicate in a foreign language. GC 7. Skills in the use of information and communication technologies. GC 8. Ability to search, process and analyze information from various sources. GC 9. Ability to adapt and act in a new situation. GC 10. Ability to be critical and self-critical. GC 11. Ability to make informed decisions. GC 12. Interpersonal skills. GC 13. Ability to act in a socially responsible manner and consciously PC1. Ability to demonstrate knowledge and understanding of Special (professional, subject) competencies problems of the subject area, basics of the modern economy at the micro, meso, macro and international levels. PC2. Ability to carry out professional activities in accordance with applicable regulations and legal acts. PC3. Understanding the features of leading scientific schools and areas of economics. PC4. Ability to explain economic and social processes and phenomena on the basis of theoretical models analyze and interpret the results. PC5. Understanding the features of modern world and national economy, their institutional structure, substantiation of directions of social, economic and international economic policy of the state. PC6. Ability to use economic-mathematical methods and models in solving economic problems. PC7. Ability to use computer technology and data processing software to solve economic problems, analyze information and prepare analytical reports. PC8. Ability to analyze and solve problems in the field of economic, social and labor relations. PC9. Ability to predict socio-economic processes based on standard theoretical and econometric models. Здатність прогнозувати на основі стандартних теоретичних та економетричних моделей соціальноекономічні процеси. PC10. Ability to use modern sources of economic, social,

- managerial, accounting information for preparation of official documents and analytical reports.
- PC11. Ability to substantiate economic decisions based on understanding the patterns of economic systems, processes and using modern methodological tools.
- PC12. Ability to identify economic problems in the analysis of specific situations on one's own, to suggest ways to solve them.
- PC13. Ability to conduct economic analysis of the functioning and development of economic entities, assessment of their competitiveness.
- PC14. Ability to carry out an in-depth analysis of the problems and phenomena in one or more professional areas, taking into account economic risks and possible socioeconomic consequences.
- PC15. Understanding the principles of branch organization of economics; ability to identify key determinants of industrial markets; ability to assess their impact on the behavior of market participants.
- PC16. Ability to develop competitive strategies of business entities in industrial markets, including in conditions of uncertainty, risk and / or asymmetry of information.
- PC17. Ability to determine the targets of enterprise development, taking into account sectoral and regional/global trends of economic development.

7 – Program learning outcomes

- 1. To associate yourself as a member of civil society, the scientific community; recognize the rule of law, in particular in professional activities; understand and be able to exercise their rights and freedoms, show respect for the rights and freedoms of others, including team members.
- 2. To reproduce moral, cultural, scientific values, to increase the achievements of society in the socio-economic sphere; to promote a healthy lifestyle.
- 3. To know and use economic terminology, explain the basic concepts of micro- and macroeconomics, *theories of industry markets*.
- 4. To understand the principles of economic science, the peculiarities of the functioning of economic systems, in particular *at the micro*, *meso and macro levels*.
- 5. To apply analytical and methodological tools to substantiate proposals and make management decisions by various economic agents (individuals, households, enterprises and public authorities).
- 6. To use professional reasoning to convey information, ideas, problems and ways to solve them to professionals and non-specialists in the field of economic activity.

- 7. To explain the models of socio-economic phenomena in terms of fundamental principles and knowledge based on understanding of the main directions in economic development.
- 8. To apply appropriate economic and mathematical methods and models to solve economic problems.
- 9. To understand the main features of the modern world and national economy, institutional structure, areas of social, economic and foreign economic policy of the state.
- 10. To analyze the functioning and development of economic entities, to determine the functional areas, to calculate the relevant indicators that characterize the effectiveness of their activities.
- 11. Be able to analyze the processes of state and market regulation of socio-economic and labor relations, *in particular* to be able to assess the economic effects of the impact of environmental regulation on the development of the industry market, the behavior of its entities.
- 12. To apply the acquired theoretical knowledge to solve practical problems and interpret the results meaningfully.
- 13. To identify sources and understand the methodology for determining and methods of obtaining socio-economic data, collect and analyze the necessary information, calculate economic and social indicators.
- 14. To identify and plan opportunities for personal professional development.
- 15. To demonstrate basic skills of creative and critical thinking in research and professional communication.
- 16. To be able to use data, make arguments, critically evaluate logic and draw conclusions from scientific and analytical texts on economics.
- 17. To perform interdisciplinary analysis of socio-economic phenomena and problems in one or more professional areas, taking into account the risks and possible socio-economic consequences.
- 18. To use regulations and legal acts governing professional activities.
- 19. To use information and communication technologies to solve socio-economic problems, prepare and present analytical reports.
- 20. To master the skills of verbal and written professional communication in the official and foreign languages.
- 21. To be able to think abstractly, apply analysis and synthesis to identify key characteristics of economic systems at different levels, as well as the behavior of their entities.
- 22. To demonstrate flexibility and adaptability in new situations, in working with new objects, in uncertain conditions, in particular in conditions of information

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	asymmetry.
	23. To demonstrate as skills of independent work as critical,
	creative and self-critical thinking.
	24. To demonstrate the ability to act in a consciously and
	socially responsible manner on the basis of ethical principles;
	to appreciate and respect cultural diversity, human nature and
	individual differences.
	25. Develop effective competitive strategies in accordance with
	the trends of sectoral and general economic development.
8 – Resourc	e support for the programme implementation
Personnel support	The provision of the educational and professional program by
	scientific and pedagogical workers for 100%, whose academic
	and / or professional qualification corresponds to the profile of
	the programme and the disciplines taught by them Involvement
	of practitioners, including foreign ones, in teaching.
	Involvement of practitioners in teaching, including foreign
	ones.
Material and technical	Classrooms and lecture halls are equipped with modern
support	demonstration equipment; computer rooms are equipped with
	the latest software versions. The SUTE distance learning
	platform is based on the Moodle, MS Office 365.
	Social and household infrastructure of SUTE is available.
Information and teaching-	Availability of published monographs, course books,
methodological support	handbooks, workshops (case studies), methodological
	guidelines for writing graduation papers, recommendations for
	independent work of students to provide educational process.
	Public information about the educational programme is
	provided through the publication of educational and
	professional programme, ECTS information package, class
	schedule, as well as all components of the educational process
	on the official website of SUTE.
	All components of the educational process are published in
	accordance with the Law of Ukraine "On Higher Education".
	9 – Academic mobility
National Credit Mobility	It is implemented in accordance with the Regulations on the
	procedure of realizing the right for academic mobility in
	SUTE. Practical training modules are implemented at
	enterprises of the private sector of the economy and in sectoral
	ministries within the framework of bilateral agreements.
International Credit	Students with the knowledge of foreign languages are able to
Mobility	obtain education abroad in accordance with bilateral
With	agreements concluded between SUTE and foreign higher
	educational institutions under the Erasmus+ programme
Training of foreign	cadeational institutions under the Liasmus programme
students	According to the rules of admission to the SUTE in 2023.
Students	

3.2. List of components of the educational programme and their logical consistency

2.1. 3.2.1. List of components of the EP

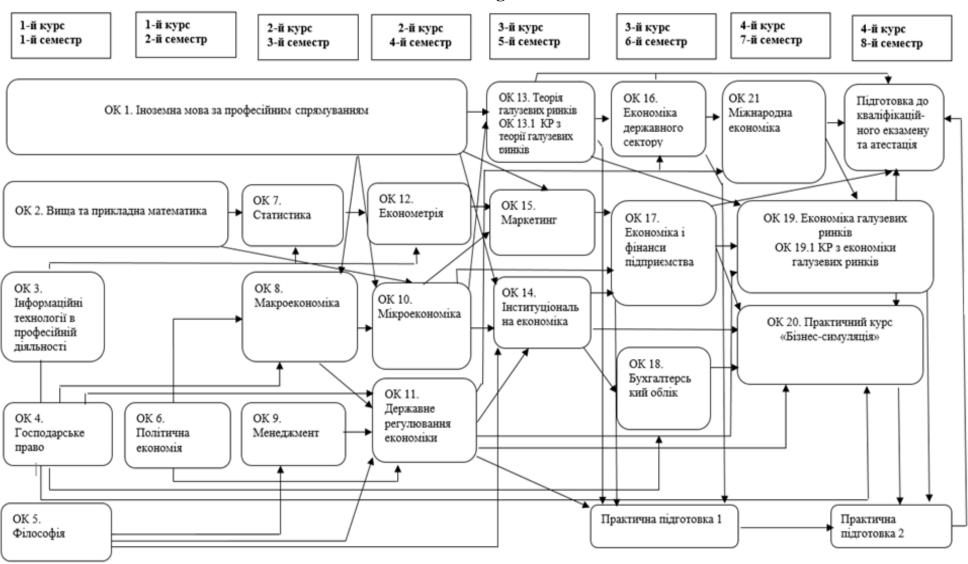
	2.1. 3.2.1. List of components of the Li	=
Code n/a	Components of the educational programme (academic course, course projects (work), internship, qualification examination, Bachelor's thesis)	Amount of credits
	1. Compulsory components of the EP	
CC 1.	Foreign language for professional use	24
CC 2.	Higher and applied mathematics	12
CC 3.	Information technologies in professional activity	6
CC 4.	Jurisprudence	6
CC 5.	Philosophy	6
CC 6.	Political Economy	6
CC 7.	Statistics	6
CC 8.	Macroeconomics	6
CC 9.	Management	6
CC 10.	Microeconomics	6
CC 11.	State Regulation of the economy	6
CC 12.	Econometrics	6
CC 13.	Theory of Industry Markets	6
CC 13.1	CW on the theory of Industry Markets	6
CC 14.	Institutional economics	6
CC 15.	Marketing	6
CC 16.	Economy of public sector	6
CC 17.	Economy and finance of an enterprise	6
CC 18.	Accounting	6
CC 19.	Industrial Markets Economics	
CC 19.1	CW on the Industrial Markets Economics	12
CC 20.	Practical course "Business Simulation"	9
CC 21.	International Economics	6
	ount of compulsory components:	159 credits
	2. Elective components of the EP	1
EC 1.	Antimonopoly regulation of industry markets	6
EC 2.	Banking	6
EC 3.	Life safety	6
EC 4.	Business planning	6
EC 5.	Stock Market trading	6
EC 6.	Brand managment	6
EC 7.	Contract law	6
EC 8.	Economy of an agricultural enterprise	6
EC 9.	Economy of hotels and restaurants	6
EC 10.	Economy of health care enterprises	6
LC 10.		

EC 11	E 61' 1 . ' 1 . '	
EC 11.	Economy of light industry	6
EC 12.	Economy of real estate	6
EC 13.	Economy of transport enterprises	6
EC 14.	Economy of trade	6
EC 15.	Economy of tourism	6
EC 16.	Economy of the food processing industry	6
EC 17.	Economic and mathematical modeling	6
EC 18.	Economic history	6
EC 19.	Economy and organization of the information services	6
EC 19.	market	
EC 20.	E-commerce	6
EC 21.	Information economy	6
EC 22.	Information wars	6
EC 23.	Information systems and technologies in economics	6
EC 24.	Foreign language	6
EC 25.	History of Ukraine	6
EC 26.	History of economic thought	6
EC 27.	Commercial Law	6
EC 28.	Logistics	6
EC 29.	Marketing of Services	6
EC 30.	International Competition	6
EC 31.	National interests in world geopolitics and geoeconomics	6
EC 32.	Fundamentals of cyber security	6
EC 33.	Entrepreneurial Law	6
EC 34.	Behavioral Economics	6
EC 35.	Political Science	6
EC 36.	Legal Regulation of Financial Services Market	6
EC 37.	Legal Regulation of Tourism activity	6
EC 38.	Psychology	6
EC 39.	Market of financial services	6
EC 40.	World market of goods and services	6
EC 41.	Sociology	6
EC 42.	Insurance	6
EC 43.	Modern economic theories	6
EC 44.	Theory of globalization	6
EC 45.	Social Choice Theory	6
EC 46.	Trade marketing	6
EC 47.	Ukrainian language (for professional use)	6
EC 48.	Finance, Money and Credit	6
EC 49.	Price making	6
	ount of elective components:	66 credits
	3. Internship	
Internship		6
Internship	0.2	6

Total amount of credits	12
4. Certification	
Preparation for Certification and Bachelor's thesis public defense	3
Total amount of credits	3
TOTAL AMOUNT OF THE EDUCATIONAL PROGRAMME	240 credits

For all components of the educational programme, the form of final control is an examination.

3.2.2 Structural and logical scheme of EP



3.3. Forms of student's certification

Certification is carried out in the form of a qualifying examination.

The qualifying examination in the subject area must verify the achievement of learning outcomes defined by the Standard of Higher Education and the educational programme.

3.4.1 Matrix of compliance of programme competences to compulsory components of the educational programme.

Components										CC											
Competences	CC 1	CC 2	CC 3	CC 4	CC 5	CC 6	CC 7	CC 8	CC 9	CC 10	CC 11	CC 12	CC 13	CC 14	CC 15	CC 16	CC 17	CC 18	CC 19	CC 20	CC 21
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				+							+								+		
PC 1						+		+		+			+						+		+
PC 2				+							+			+		+	+	+			
PC 3						+		+		+			+	+							
PC 4		+	+		+		+	+		+		+	+	+						+	
PC 5						+		+			+			+		+					+
PC 6		+					+			+		+								+	
PC 7			+				+					+	+				+	+	+	+	
PC 8						+		+		+	+		+			+	+	+	+	+	
PC 9							+	+		+		+	+								
PC 10	+						+		+								+	+		+	
PC 11						+		+	+	+			+								
PC 12										+		+			+	+	+		+		
PC 13										+		+				+	+				
PC 14					+			+		+	+								+		+
PC 15											+		+						+		

PC 16					+		+				+	
PC 17							+		+	+	+	

3.4.2. Matrix of compliance of program competencies to the elective components of the educational programme.

			lati.	IA '	OI.	CU	444																			, C	UIII,			105																
Components Competences	EC 1	EC2	EC 3	EC4	EC5	EC6	EC 7	EC8	EC9	EC 10	EC 11	EC 12	EC 13	EC 14	EC IS	EC 10	EC 18	EC 19	EC 20	EC 21	EC 22	EC23	EC 24	EC 25	EC 26	EC 27	EC 28 EC 29	EC 30	EC 31	EC 32	EC 33	EC 34	EC 35	EC 36	EC 37	EC 30	EC 40	EC 41	EC 42	EC 43	EC 44	EC 45	EC 46	EC 47	EC 48	EC 49
GC 1			+				+										+			+				+		F			+	+	+		+		+			+				+		+		
GC 2		+			+			+	+	+	+	+	+	+ -	+ +	-	+	+	+	+	+			+	+			+		+			+		-	+ +	+	+	+	+	+	Ш				
GC 3				+												+	-			+	+	+			+	-	+ +					+								+		+				+
GC 4		+	+	+	+	+	+	+	+	+	+	+	+	+	+ +	- +	-	+	+	+		+			4	- -	+ +	+		+	+			+	+ -	+ +	-		+				+			+
GC 5	+	+		+	+	+	+	+	+	+	+	+	+	+	+ +	-	+	+	+	+				+	+ +	-	+ +	+	+		+	+	+	+	+ -	+ +	+	+	+	+	+	+	+ -	+ -	+	+
GC 6																							+																							
GC 7				+	+											+	- [+	+	+	+				-	+ +			+					-	F		+					+			
GC 8	+	+		+	+	+		+	+	+	+	+	+	+	+ +	- +	- [+	+	+	+	+	+			-	+ +	+	+	+		+				+	+	+	+			+	+	٦,	+	+
GC 9			+	+		+	+												+	+	+				4	- -	+ +	+		+	+	+	+	+	+ -	F					+	+	+			
GC 10																											+					+			4	H			+				+			
GC 11	+	+	+	+	+			+	+	+	+	+	+	+	+ +	- +	-	+	+							-	+ +		+	+					+	+ +	-		+				+			+
GC 12			+	+	+	+													+				+			-	+ +						+		-	F							+ -	+		
GC 13	+		+	+			+										+				+			+	+ +	F	+		+	+	+		+	+	+ -	F		+		+		+	+		+	
PC 1		+						+	+	+	+	+	+	+	+ +	-		+		+		+						+	+	+		+				+	+		+		+	+				+
PC 2	+			+			+														+				4	F				+	+			+	+											
PC 3																	+			+					+							+	+							+	+	+				
PC 4								+	+	+	+	+	+	+ -	+ +	- +	+	+		+					+					+		+	+			+	-	+		+	+	+				+
PC 5	+	+						+	+	+	+	+	+	+	+ +	-		+		+	+							+	+	+		+	+			+	+		+	+	+	+				
PC 6																+	-									-	+											+								+
PC 7				+	+											+	-		+		+	+								+																
PC 8						+	+																		4	F	+		+		+			+	+ -	F		+	+				+			
PC 9																+	-			+									+			+								+	+	+				+
PC 10				+	+	+													+		+	+	+			-	+ +			+													+ -	+		

PC 11		+	+	+	+	+	-	+ -	+ -	+	+	+	+	+	+	+		+	+	+	+	+			+		+ -	+	+		+	+				+		+	+	+	+ -	+		+
PC 12			+	+		+	-	+ -	.	.	+	+	+	. 1	. 1	.	+		+				+				+			+						+							+	
PC 13							-	+ -	+ -	+ -	+	+	+	+	+	+	+		+				+													+			+		+			+
PC 14		+					-	+ -	+ -	+ -	+	+	+	+	+	+			+			+						+	+			+			+	+	+	+	+		+			+
PC 15	+		+				-	+ -	+ -	+ -	+ -	+	+	+	+	+			+																	+								
PC 16	+		+				-	+ -	+ -	+ -	+ -	+	+	+	+	+			+		+				-	+		+					+	+		+								
PC 17			+				-	+ -	⊦ -	+	+	+	+	+	+	+			+											+						+	+							

3.5.1. Matrix for providing programme learning outcomes with compulsory components of the educational programme.

Components																					
	1	7	3	4	w	9	7	∞	6	10	11	12	13	14	15	16	17	18	19	20	21
programme learning	CC	CC	CC	သ	သ	သ	သ	သ	သ	CC	CC	သ	၁၁	CC	CC	သ	သ	CC	၁၁	\mathbf{cc}	သ
outcomes)								C	C			C	C	\mathbf{C}	\mathbf{C}	C	\mathbf{C}	C	
1				,	ı			+													
2				+	+	+															
					+	+				+											+
3						+		+		+			+								+
4						+		+		+			+	+		+	+		+		+
5		+				+				+	+	+	+		+	+	+		+	+	
6				+	+	+			+						+						
7						+		+		+		+	+	+							+
8		+						+		+		+								+	
9						+		+			+		+	+					+		+
10										+		+					+	+		+	
11								+			+		+						+		
12		+	+				+		+	+			+		+				+	+	+
13			+				+	+			+	+	+			+	+		+	+	
14				+					+												
15	+			+	+	+			+			+	+	+	+		+		+	+	
16	+				+	+		+		+		+	+	+		+	+		+		
17						+	+	+		+	+		+	+		+	+		+		+
18				+							+								+		
19			+				+					+					+	+	+	+	
20	+			+	+	+	+	+	+	+	+		+	+	+	+	+	+	+		
21					+	+		+		+		+	+	+		+	+		+		+
22					+	+			+	+			+	+	+				+	+	
23		+			+	+			+		+		+		+	+			+		
24	+			+	+	+			+		+				+				+		
25										+			+						+		

3.5.2 Matrix for providing programme learning outcomes with elective components of the educational programme.

Components programme learning outcomes	EC 1	EC 2	EC 3	EC 4	EC 5	EC 6	EC 7	EC 8	EC 9	EC 10	EC 11	EC 12	EC 13	EC 14	EC 15	EC 16	EC 17	EC 18	EC 19	EC 20	EC 21	EC 22	EC 23	EC 24	EC 25	EC 26	EC 27	EC 28	EC 29	EC 30	EC 31	EC 32	EC 33	EC 34	EC 35	EC 36	EC 37	EC 38	EC 39	EC 40	EC 41	EC 42	EC 43	EC 44	EC 45	EC 46	EC 47	EC 48	EC 49
1			+				+											+							+	+	+				+	+	+	+	+	+	+	+			+				+	4	+		
2			+	+		+		+	+	+	+	+	+	+	+	+		+	+		+				+	+			+	+	+			+	+	+	+	+			+		+		+	+ +	+		
3								+	+	+	+	+	+	+	+	+		+	+		+					+				+				+	-+	-+	+	+	+	+	+		+	+	+			+	+
4								+	+	+	+	+	+	+	+	+		+	+		+	+				+				+				+					+	+			+	+	+				+
5	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+		+	+		+	+					+	+		+								+			+	+		+	+			+
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