MINNISTRY OF EDUCATION AND SCIENCE OF UKRAINE KYIV NATIONAL OF TRADE AND ECONOMICS

Educational program
 «Commercial law»

The First level of higher education
 in speciality 081 Law
 Field of Study 08 Law

Qualification: Bachelor's degree
 Speciality «Law»

Specialization «Commercial law»

1. Profile of educational program in speciality 081 «Law» (specialization «Commercial Law»)

	1 – General information
Full name of IHE and	Kyiv national University of Trade and Economics
structural unit	Faculty of International Trade and Law
	Department of International Private, Commercial and Civil Law
Academic degree and	Bachelor degree
qualification title in	Speciality 081 «Law»
the original	Specialization «Commercial Law»
Official title of	«Commercial Law»
educational program	
Qualification title,	Одиничний
program credits and	240 credits (ECTS)
duration	3 years and 10 months
Accreditation	Ministry of Education and Science of Ukraine, Ukraine,
	01.07.2019
Cycle/Level	NRK Ukraine – the 7 th level,
	FQ for EHEA – the 1 th level,
	EQF for LLL – the 6 th level
Academic Background	Full secondary education, beginner's level in higher education
Language (s) of	Ukrainian
Program duration	01.07.2019
Educational Program	https://www.knute.edu.ua/
	2 – Educational program (EP) aim
-	ystem of professional knowledge and skills in the sphere of commercial law.
	lual able to work successfully in the sphere of law on the basis of acquired
	mental, interpersonal, systematic) and professional competences necessary to
perform legal functions i	n the sphere of commercial activity
	3 – EP characteristics
•	Field of study 08 «Law»
study, speciality,	Speciality 081 «Law»
specialization (if available)	Specialization «Commercial Law» Total content: compulsory component 66,9 %; optional component 26,9 %;
avanable)	практична підготовка 6,2%.
	Disciplines of general education 24%; disciplines of professional training 76%.
	processional raining 7070.
EP orientation	Educational-professional, fundamental, applied
EP and specialization	General higher education in speciality «Law», specialization «Commercial
goals and objectives	Law».
9 · · · · · · · · · · · · · · · · ·	Key words: law, legislation, legal act, commercial law, legal entity, legal
	liability.
Specific requirements	Variable component of professionally-oriented disciplines to enable work in
	legal area; two-week practical training during the third year of study and
	four-week practical training during the last year of study at enterprises,
	institutions, organizations, jurisdictional state bodies, notary offices and

Career opportunities	According to the National Classification of economic activity DK 009:2010 and requirements of labour market the following are the kinds of
	professional activity of a graduate:
	- activity in legal area: advocacy, notary and other legal activity; providing
	other commercial services – K. 69.10;
	- activity in public relations – K. 70.21;
	 consultancy in commercial activity and management – K. 70.22; investigation – K. 80.30;
	 activity in the sphere of justice – K. 84.23;
	 activity in compulsory social insurance – Κ. 84.30;
	- in higher education – K.85.42;
	in public organizations –K. 94.99.
	According to the National Classification of professions DK 003:2010 a graduate can occupy the following initial positions: public officer; private officer; assistant of private officer; public plenipotentiary; inspector of labour (legal); office employee (non-governmental judicial bodies); administrative secretary; secretary of public self-government; office employee (insurance); recorder of trial in court; clerk to the justice; secretary of judicial board; court executve; court розпорядник; specialists of clerical work (public bodies); specialists of clerical work (judicature); assistant of private investigator; assistant of lawyer; assistant of notary; assistant of public notary; assistant of judge; assistant of investigator; assistant of Board member; personnel service; specialist in HR and public
	service; assistant of counsel.
Further learning	Master level.
	5 – Teaching and assessment
Teaching and assessment	Student oriented teaching problematic, interactive, project, IT, self-developing, team and integrative, contextual technologies of study.
	Focus is on individual self-development, team work which will encourage life-long self-study.
Assessment	<u> </u>
Assessment	life-long self-study.
Assessment Integral competences	life-long self-study. According to the Provision on the organization of students' education.
Integral competences (IC)	life-long self-study. According to the Provision on the organization of students' education. 6 – Program competences Ability to solve complicated specialized tasks and practical problems in the area of legal regulation of commercial activity characterized by complexity.
Integral competences (IC) General competences	life-long self-study. According to the Provision on the organization of students' education. 6 – Program competences Ability to solve complicated specialized tasks and practical problems in the area of legal regulation of commercial activity characterized by complexity. CC 1. Ability to maintain and multiply moral, cultural, scientific values and
Integral competences (IC)	life-long self-study. According to the Provision on the organization of students' education. 6 – Program competences Ability to solve complicated specialized tasks and practical problems in the area of legal regulation of commercial activity characterized by complexity. CC 1. Ability to maintain and multiply moral, cultural, scientific values and national achievements on the basis of understanding history and legitimacy of
Integral competences (IC) General competences	life-long self-study. According to the Provision on the organization of students' education. 6 – Program competences Ability to solve complicated specialized tasks and practical problems in the area of legal regulation of commercial activity characterized by complexity. CC 1. Ability to maintain and multiply moral, cultural, scientific values and national achievements on the basis of understanding history and legitimacy of law development its place in the overall system of knowledge about nature and
Integral competences (IC) General competences	life-long self-study. According to the Provision on the organization of students' education. 6 – Program competences Ability to solve complicated specialized tasks and practical problems in the area of legal regulation of commercial activity characterized by complexity. CC 1. Ability to maintain and multiply moral, cultural, scientific values and national achievements on the basis of understanding history and legitimacy of
Integral competences (IC) General competences	According to the Provision on the organization of students' education. 6 - Program competences Ability to solve complicated specialized tasks and practical problems in the area of legal regulation of commercial activity characterized by complexity. CC 1. Ability to maintain and multiply moral, cultural, scientific values and national achievements on the basis of understanding history and legitimacy of law development its place in the overall system of knowledge about nature and society and in the development of society, technics and technologies. CC 2. Knowledge of the regularities of society development, emergence, functioning and development of legal processes, ability to use it in their professional activity. CC 3. Readiness to use knowledge of philosophy, philosophy of law, psychology, economics and other social-humanitarian sciences in professional activity.
Integral competences (IC) General competences	Ilife-long self-study. According to the Provision on the organization of students' education. 6 - Program competences Ability to solve complicated specialized tasks and practical problems in the area of legal regulation of commercial activity characterized by complexity. CC 1. Ability to maintain and multiply moral, cultural, scientific values and national achievements on the basis of understanding history and legitimacy of law development its place in the overall system of knowledge about nature and society and in the development of society, technics and technologies. CC 2. Knowledge of the regularities of society development, emergence, functioning and development of legal processes, ability to use it in their professional activity. CC 3. Readiness to use knowledge of philosophy, philosophy of law, psychology, economics and other social-humanitarian sciences in professional activity. CC 4. Foreign language command. CC 5. Knowledge of information technologies, ability to handle electronic data base and be aware of fundament flow.
Integral competences (IC) General competences	According to the Provision on the organization of students' education. 6 – Program competences Ability to solve complicated specialized tasks and practical problems in the area of legal regulation of commercial activity characterized by complexity. CC 1. Ability to maintain and multiply moral, cultural, scientific values and national achievements on the basis of understanding history and legitimacy of law development its place in the overall system of knowledge about nature and society and in the development of society, technics and technologies. CC 2. Knowledge of the regularities of society development, emergence, functioning and development of legal processes, ability to use it in their professional activity. CC 3. Readiness to use knowledge of philosophy, philosophy of law, psychology, economics and other social-humanitarian sciences in professional activity. CC 4. Foreign language command. CC 5. Knowledge of information technologies, ability to handle electronic data

- **CC 8.** Ability of oral and written communication in native languages in professional sphere, fundamental knowledge of business communication.
- **CC 9.** Ability to realize one's own rights and duties as a member of a society, awareness of the values of a free democratic society and necessity of its constant development, the rule of law, rights and freedom of a citizen of Ukraine.
- **CC 10.** Ability to evaluate events of real life (facts, circumstances, ect.) from legal point of view.
- **CC 11.** Ability to search process and analyze information from various sources and forecast its application in practice.
- **CC 12.** Desire to protect environment.

Professional competences (PC)

- **PC 1**. Mastering legal knowledge of national legal system, law system of foreign countries and the system of international law.
- **PC 2.** Understanding the content of legal areas (constitutional law, administrative law, and process, civil law and process, financial law, business law and process, etc.).
- **PC 3.** Ability to forsee and find out regularities of emergence, functioning and development of public legal events and processes.
- **PC 4.** Ability to respect dignity of a person, to protect rights of a citizen, not to permit violation of rights legally protected interests of individuals and legal entities.
- **PC 5.** Ability to protect legal interests of state and territorial community.
- **PC 6.** Ability within one's competence to provide legal consultation to law enforcing bodies including legal entities, state bodies and self-governing bodies, ability to make legal decisions.
- **PC 7.** Possessing skills to process the system of legal normative acts, to create regulations and enforce the laws.
- **PC 8.** Ability to monitor legislation and legal practice.
- **PC 9.** Ability to make legal decisions using progressive scientific approaches and take legal steps in commercial and business activity complying with the law.
- **PC 10.** Ability to fully and properly reflect the results of one's professional activity in legal and other documents.
- **PC 11.** Ability to use legal searching data lase and modern IT; fundamentals of electronic document flow.
- **PC 12.** Mastering legal knowledge of preventing law violations, and restoring legal order.
- **PC 13.** Ability to assess legal status of a person and citizen.
- **PC 14**. Ability to determine legality of regulatory acts adopted by state bodies and local self-governing bodies.
- **PC 15.** Ability to conduct professional activity based on the knowledge of theory and practice of legal regulation of commercial and business activity by enterprises and organizations, whose founders are organs of state power.
- **PC 16.** Ability to discuss and communicate efficiently in state language and foreign professional languages.
- **PC 17.** Ability to solve methodical, organizational-technical and staff problems appearing in the course of professional activity.
- **PC 18.** Ability to use standard forms, methods, procedures of control and supervision in professional activity.

7 - Program learning outcomes (PLO)

	PLO 1. To know the history of Ukraine. PLO 2. To be able to evaluate the development of public relationship. PLO 3. To analyse political processes, mechanism of organization and provision of typology of political systems and their functions. PLO 4. To be able to make systematic analisis of legislation and generalize practice of law application including court practice and state bodies activity. PLO 5. To be able to orient in economic environment, to assess state and level of macro- and microeconomics. PLO 6. To knew and understanding the nature of law and connected with it public events. PLO 7. To understand and use mechanisms of law making and law realization. PLO 8. To evaluate legal status of a person in a legal country. PLO 9. To be able to assess legality of regulatory acts and individual acts by state bodies and self-governing bodies within their competences, their capacity to participate in relative legal relations. PLO 10. To have skills to analize the sources of legal and economic information for the purpose of formulating one's own legal position. PLO 11. To perform professional activity based on knowledge of theory and practice of legal regulation of commercial and business activity and the place and role of state and local self-governing organs in business activity. PLO 12. To be able to use basics of legal support of the activity of commercial subjects. PLO 13. To possess knowledge and practical skills for effective defence and remedy of violated right of commercial and business subjects. PLO 14. To possess knowledge and understand the process of enforcement of court and administrative decisions. PLO 15. To possess knowledge and practical skills to perform procedures and drawing up legal documents. PLO 16. To know possible ways of preventing violations of law and removing their effects to restore legislature. PLO 17. To know a foreign language to be able to solve professional tasks.
	PLO 18. To be able to use legal searching data bases and IT.
	8 – Resource support for program implementalion
Academic staff	Teaching staff meet the licencing requirements educational activity of higher educational institutions. Teachers with scientific degrees and/or scientific titles and highly qualified specialists are involved in the implementation of the program. To raise professional level all teachers have internship once in five years.
Facilities	Laboratories, computer and specially equipped classrooms of KNUTE.
Informational, teaching and learning	The system of distant learning MOODLE and MS Office 365 provide opportunities for students' self-study and individual 9 – Academic mobility
National credit	Exercised according to the Provision on realization of academic mobility
mobility	right in KNUTE. Organization of credit mobility (except the 1 st year of study) of bachelors. Project company "EPAM Systems of Ukraine", Public Company "Ukrainian Institute of Intellectual Properly", The Centre of Sertifud Study "Prokom", education company "Person Education", corporation "Parus", group of companies "BYS Solections".

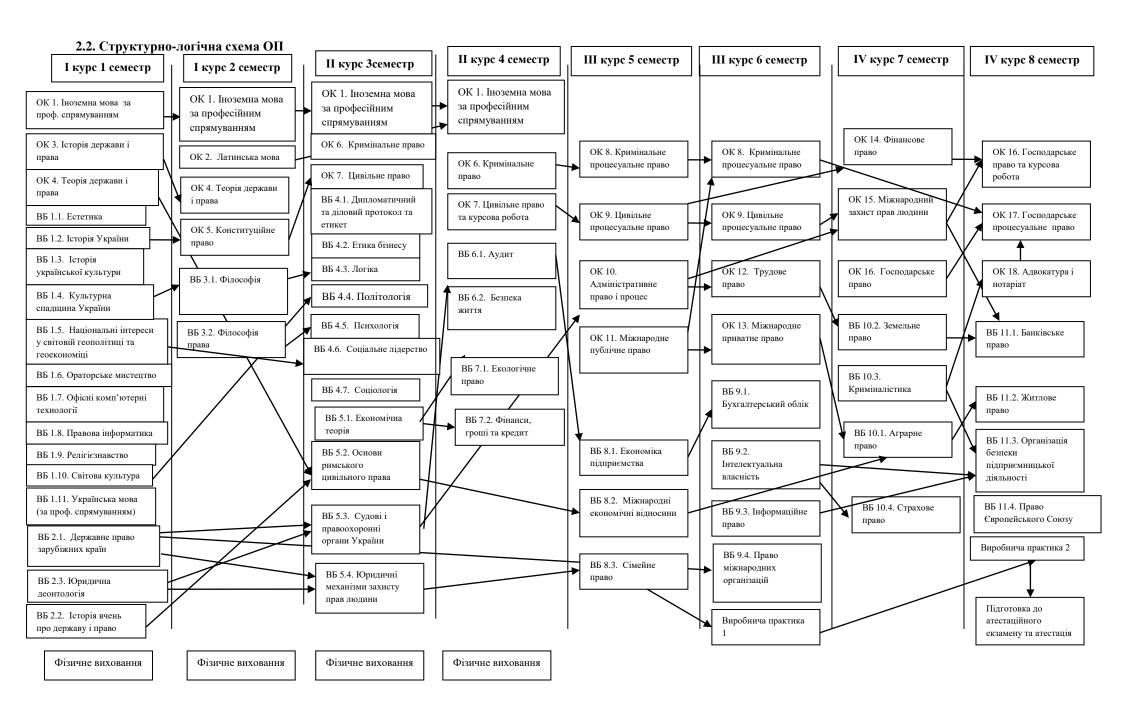
International credit mobility	Organization of credit mobility (except the 1 st year of study) of bachelors. Project University "Paris-Est Creteil" (Paris, France), Business School" Ауденсія (Nant, France), University of Grenoble, Alps (Grenoble, France), University of Central Lancashire (Preston, Great Britain), University of Hohenheim (Stutgart, Germany).
Training of foreign students	Provided for when needed.

2. List of EP components and their logical order

2.1. List of EP components

№	EP components (disciplines, term projects (papers),	Number	Final
	practical training, qualification paper)	of credits	assessment
1	2	3	4
	Compulsory components of EP (CC)	1	ı
CC 1.	Foreign Language for professional purposes	24	exam
CC 2.	Latin Language	6	exam
CC 3.	History of State and Law	6	exam
CC 4.	Theory of State and Law	12	exam
CC 5.	Constitutional Law	6	exam
CC 6.	Criminal Law	12	exam
CC 7.	Civil Law	12	exam
CC 7.1	Course Paper in Civil Law		exam
CC 8.	Criminal Procedural Law	12	exam
CC 9.	Civil Procedural Law	12	exam
CC 10.	Administrative Law and Procedure	6	exam
CC 11.	International Public Law	6	exam
CC 12.	Labour Law	6	exam
CC 13.	International Private Law	6	exam
CC 14.	Finance Law	6	exam
CC 15.	International Protection of Human Rights	6	exam
CC 16.	Business Law		exam
CC 16.1	C/P in Business Law	12	defense of C/P
CC 17.	Business Procedural Law	6	exam
CC 18	Advocacy and Notary	4.5	exam
	Physical Education		credit
Total Cre	dits for compulsory components:	10	60,5
	Optional components of EP (OC)		,
OC 1.1.	Esthetics	6	exam
OC 1.2.	History of Ukraine	6	exam
OC 1.3.	History of Ukrainian Culture	6	exam
OC 1.4.	Cultural Interitance of Ukraine	6	exam
OC 1.5.	National Interests in the World Geopolitics and Geoeconomics	6	exam
OC 1.6.	Declamatory Art	6	exam
OC 1.7.	Office Computer Technologies	6	exam
OC 1.8.	Legal Computer Science	6	exam
OC 1.9.	Religious Science	6	exam
OC 1.10.	World Culture	6	exam
OC 1.11.	Ukrainian language for Professional Purposes	6	exam
OC 2.1.	State Law of Foreign Countries	6	exam
OC 2.2.	History of Science about State and Law	6	exam
OC 2.3.	Juridical Deontology	6	exam
OC 3.1.	Philosophy	6	exam
OC 3.2.	Philosophy of Law	6	exam
OC 4.1.	Diplomatic and Business Protocol and Ethics	6	exam
OC 4.2.	Business Ethics	6	exam

		1												
OC 4.3.	Logics	6	exam											
OC 4.4.	Political Science	6	exam											
OC 4.5.	Psychology	6	exam											
OC 4.6.	Social Science	6	exam											
OC 4.7.	Sociology	6	exam											
OC 5.1.	Economic Theory	6	exam											
OC 5.2.	Fundamentals of Rome Civil Law	6	exam											
OC 5.3.	Judicial and Law Enforcement Bodies of Ukraine	6	exam											
OC 5.4.	6	exam												
OC 6.1.	6	exam												
OC 6.2.	6	exam												
OC 7.1.	OC 7.1. Ecological Law 6													
OC 7.2.	Finances, Money and Credit	6	exam											
OC 8.1.	Economy of an Enterprise	6	exam											
OC 8.2.	International Economic Relations	6	exam											
OC 8.3.	Family Law	6	exam											
OC 9.1.	Accounting	6	exam											
OC 9.2.	Intellectual Property	6	exam											
OC 9.3.	Informational Law	6	exam											
OC 9.4.	Law of International Organizations	6	exam											
OC 10.1.	Agrarian Law	6	exam											
OC 10.2.	Land Law	6	exam											
OC 10.3.	The Science of Criminal Law	6	exam											
OC 10.4.	Insurance Law	6	exam											
OC 11.1.	Banking Law	4,5	exam											
OC 11.2.	Housing Law	4,5	exam											
OC 11.3.	Safety of Entrepreneurial Activity	4,5	exam											
OC 11.4.	European Union Law	4,5	exam											
Total Nur	nber of Credits of OC:	6	4,5											
	Practical Training	<u>.</u>												
Practical T	raining 1	6	credit											
Practical 7	raining 2	6	credit											
	Qualification Procedure													
Preparatio	n for qualification exam and qualification exam	3	exam											
Total nun	nber of EP credits	2	240											
		•												



3. Graduate Certification

Certification of a graduate of EP "Commercial Law" speciality 081 "Law" is carried out in the form of qualification exam and results in granting the document of established pattern awarding him the degree of bachelor in speciality "Law", specialization "Commercial Law".

Certification is carried out openly and in public.

4. Program Competences and EP Components Matrix

	- 0				_													
	CC 1	CC 2	CC3	CC 4	CC 5	9 DD	CC 7	CC 8	622	CC 10	CC 11	CC 12	CC 13	CC 14	CC 15	CC 16	CC 17	CC 18
3K 1		*		*	*	*	*	*	*	*	*		*	*		*	*	
ЗК 2			*	*	*	*	*	*	*	*	•	*	•	•	*	*	*	*
3К 3	*	*	*	*	*		.,	.,							.,	*	*	*
ЗК 4	*	*																
3K 5			*										*	*				
ЗК 6											*			*				
3К 7	*	*									*		*					
ЗК 8					*						*			*				
3К 9							*	*	*	*						*	*	*
3К 10				*	*	*	*	*	*	*			*					*
3K 11												*		*	*	*	*	
3К 12 ФК 1		*	*	*	*								*					
				*														
ФК 2		*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
ФК 3		*	*	*			*	*	*	*	*							*
ФК 4		*		*		*					*							
ФК 5			*	*			*	*	*	*	*					*	*	*
ФК 6		*					*	*	*	*	*	*	*		*			*
ФК 7		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ФК 8		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
ФК 9		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
ФК 10																		
ФК 11		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
ФК 12		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
ФК 13		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ФК 14		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
ФК 15		*	*	*	*	*	*	*	*	*			*	*				
ФК 16		*	*	*	*	*	*						*					
ФК 17		*	*	*	*	*	*	*	*	*	*		*			*		
ФК 18		*	*	*	*	*	*	*	*	*	*		*			*		

			-																						1				-1	I	- 1			-	<u> </u>			1	\neg	—				$\overline{}$		\neg
		7	6	4	w	9	7	8	•	0	1	1	7	8	1	2	1	~	3	4	S	9	7	1	7	8	4	_	7	_	7	_	7	6												
	OC 1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	OC 1.9	OC 1.10	1.11	2.1	2.7	2.3	3.1	3.2	3 4.1	OC 4.2	3 4.3	4.4	4.5	3.4.6	7.4.7	5.1	5.2	5.3	5.4	. 6.1	6.2	7.1	7.2	8.1	8.2	8.3	9.1	9.2	9.3	9.4	10.1	10.2	10.3	10.4	11.1	11.2	11.3	11.4
	00	0C	0C	00	00	00	0C	0C	00	oc	oc	0C	0c	0C	00	0C	00	0	0C	0c	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	00	0C	0C	00	0C	0C	0C 1	0C 1	0C 1	0C 1	0C 1	0C 1	0C 1	0C 1
																																					0	٥	0	0	0	0	0	0	0	0
3К 1	*	*	*	*	*					*		*					*	*					*		*				*					*				*	*	*	*	*	*	*	*	*
ЗК 2		*	*			*	*			*	*	*							*	*			*	*	*					*	*			*												
3К 3	*	*	*	*	*		*	*	*								*	*		*	*	*							*		*	*	*					*	*	*	*	*	*	*	*	*
3К 4	*	*	*	*	*					*		*	*	*	*	*	*	*					*		*	*	*	*	*					*	*	*	*	*								
3K 5		*	*			*	*			*	*		*	*	*				*	*			*	*		*	*			*	*			*	*	*			*	*	*	*	*	*	*	*
3K 6	*	*	*	*	*		*	*	*			*	*	*	*	*	*	*		*	*	*			*	*	*	*	*		*	*	*		*	*	*	*								
ЗК 7																																							*	*	*	*	*	*	*	*
3K 8	*	*	*	*	*					*		*	*	*	*	*	*	*					*		*	*	*	*	*					*	*	*	*	*								
ЗК 9		*	*			*	*			*	*		*	*	*				*	*			*	*		*	*			*	*			*	*	*			*	*	*	*	*	*	*	*
3K 10	*	*	*	*	*		*	*	*			*	*	*	*	*	*	*		*	*	*			*	*	*	*	*		*	*	*		*	*	*	*								
3K 11																																							*	*	*	*	*	*	*	*
3K 12	*	*	*	*	*					*		*	*	*	*	*	*	*					*		*	*	*	*	*	_	_		_	*	*	*	*	*	-	_				-	_	_
ФК 1	*	*	*	*	*					*		*	*	*	*	*	*	*					*		*	*	*	*	*					*	*	*	*	*	\dashv	_				-		
ФК 2 ФК 3		*	*			*	*			*	*		*	*	*				*	*			*	*		*	*			*	*		_	*	*	*			*	*	*	*	*	*	*	*
ФК 3	*	*	*	*	*		*	*	*			*	*	*	*	*	*	*		*	*	*			*	*	*	*	*		*	*	*		*	*	*	*	\dashv	\dashv	\dashv			\dashv	\dashv	-
ФК 5	ν.	ν.	-V-	*	*					*		*					*	av.					*		*				м.					<u>v</u>	_			- X	*	*	*	*	*	*	*	*
ФК 6	**	*	*	*	*	*	*			*	*	*					*	**	*	*			*	*	*				*	*	*			*				*	*	ν.	*	*	*	*	*	*
ФК 7	*	*	*	*	*	^	*	. *	*	^	^	^					*	*	^	*	*	*	^	^	^				*		*	*	*					*		^		^	^			
ФК 8				*	*					*		*	*	*	*	*	*	*					*		*	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*	*	*
ФК 9						*	*			*	*		*	*	*				*	*			*	*		*	*			*	*			*	*	*										
ФК 10				*	*		*	*	*			*	*	*	*	*	*	*		*	*	*			*	*	*	*	*		*	*	*		*	*	*	*	*	*	*	*	*	*	*	*
ФК 11																																														
ФК 12				*	*					*		*	*	*	*	*	*	*					*		*		*	*	*					*	*	*	*	*	*	*	*	*	*	*	*	*
ФК 13						*	*			*	*		*	*	*				*	*			*	*			*			*	*			*	*	*										
ФК 14				*	*		*	*	*			*	*	*	*	*	*	*		*	*	*			*		*	*	*		*	*	*		*	*	*	*	*	*	*	*	*	*	*	*
ФК 15																																														
ФК 16				*	*					*		*	*	*	*	*	*	*					*		*		*	*	*					*	*	*	*	*	*	*	*	*	*	*	*	*
ФК 17						*	*			*	*		*	*	*				*	*			*	*		*	*			*	*		_	*	*	*			_	_					_	
ФК 18				*	*		*	*	*			*	*	*	*	*	*	*		*	*	*			*	*	*	*	*		*	*	*		*	*	*	*	*	*	*	*	*	*	*	*

5. Program learning outcomes and EP Components Matrix

	CC 1	CC 2	CC3	CC 4	CCS	9 D D	CC 7	CC 8	622	CC 10	CC 11	CC 12	CC 13	CC 14	CC 15	CC 16	CC 17	CC 18
PLO 1		*	*	*	*	*	*	*	*	*		*						*
PLO 2				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PLO 3						Ť	•											
				*	*	*		*		*	*			*				
PLO 4			*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
PLO 5			*										*	*	*	*	*	*
PLO 6				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PLO 7				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PLO 8				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PLO 9					*	*	*	*	*	*	*	*	*	*	*	*	*	*
PLO 10			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PLO 11							*	*	*	*	*	*	*	*		*	*	*
PLO 12			*					*	*	*	*	*	*	*	*	*	*	*
PLO 13								*	*	*	*	*	*	*	*	*	*	*
PLO 14							*	*	*	*	*	*	*	*	*	*	*	*
PLO 15			*				*	*	*	*	*	*	*	*	*	*	*	*
PLO 16			*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
PLO 17	*	*						*	*		*		*	*				*
PLO 18	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*

	0C1.1	OC 1.2	OC 1.3	OC 1.4	OC 1.5	OC 1.6	OC 1.7	OC 1.8	OC 1.9	OC 1.10	OC 1.11	OC 2.1	OC 2.2	OC 2.3	OC 3.1	OC 3.2	OC 4.1	OC 4.2	OC 4.3	OC 4.4	OC 4.5	OC 4.6	OC 4.7	OC 5.1	OC 5.2	OC 5.3	OC 5.4	OC 6.1	OC 6.2	OC 7.1	OC 7.2	OC 8.1	OC 8.2	OC 8.3	OC 9.1	OC 9.2	OC 9.3	OC 9.4		OC 10.2	OC 10.3	OC 10.4	OC 11.1	OC 11.2	OC 11.3	OC 11.4
PLO 1	*	*	*	*	*					*		*				*	*					*		*				*	*					*		*				*	*	*	*	*	*	*
PLO 2		*	*			*	*			*	*	*						*	*			*	*	*						*	*			*	*	*										
PLO 3	*	*	*	*	*		*	*	*							*	*		*	*	*							*	*		*	*	*							*	*	*	*	*	*	*
PLO 4	*	*	*	*	*					*		*	*	*	*	*	*					*		*	*	*	*	*	*					*		*	*	*	*	*						
PLO 5		*	*			*	*			*	*		*	*				*	*			*	*		*	*				*	*			*	*		*	*			*	*	*	*	*	*
PLO 6	*	*	*	*	*		*	*	*			*	*	*	*	*	*		*	*	*			*	*	*	*	*	*		*	*	*			*	*	*	*	*						
PLO 7																																									*	*	*	*	*	*
PLO 8	*	*	*	*	*					*		*	*	*	*	*	*					*		*	*	*	*	*	*					*		*	*	*	*	*						
PLO 9		*	*			*	*			*	*		*	*				*	*			*	*		*	*				*	*			*	*		*	*			*	*	*	*	*	*
PLO 10	*	*	*	*	*		*	*	*			*	*	*	*	*	*		*	*	*			*	*	*	*	*	*		*	*	*			*	*	*	*	*						
PLO 11																																									*	*	*	*	*	*
PLO 12	*	*	*	*	*					*		*	*	*	*	*	*					*		*	*	*	*	*	*					*		*	*	*	*	*						
PLO 13		*	*			*	*			*	*		*	*				*	*			*	*		*	*				*	*			*	*		*	*			*	*	*	*	*	*
PLO 14	*	*	*	*	*		*	*	*			*	*	*	*	*	*		*	*	*			*	*	*	*	*	*		*	*	*			*	*	*	*	*						
PLO 15																																									*	*	*	*	*	*
PLO 16	*	*	*	*	*					*		*	*	*	*	*	*					*		*	*	*	*	*	*					*		*	*	*	*	*						
PLO 17		*	*			*	*			*	*		*	*				*	*			*	*		*	*				*	*			*	*		*	*			*	*	*	*	*	*
PLO 18	*	*	*	*	*		*	*	*			*	*	*	*	*	*		*	*	*			*	*	*	*	*	*		*	*	*			*	*	*	*	*						