# MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE NATIONAL TECHNICAL UNIVERSITY "KHARKIV POLYTECHNIC INSTITUTE"

#### **EDUCATIONAL-PROFESSIONAL PROGRAMME**

Information technologies in the media industry The First (Bachelor) Level

speciality field of knowledge qualification 186 Publishing and printing production 18 Production and technology Bachelor of publishing and printing production

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#### **PREFACE**

### Developed by a working group

Chairman	of	the	wor	king	group	
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Chairman of the working group	
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Analysis and Information-Analytical Technologies of the National

Technical University "Kharkiv Polytechnic Institute"

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#### 1. PROFILE OF EDUCATIONAL PROFESSIONAL PROGRAMME

## Information technologies in the media industry by speciality 186 Publishing and printing production

1 – General information							
Full name of higher ed-	National Technical University "Kharkiv Polytechnic Institute"						
ucational institution and	Faculty of Computer Science and Software Engineering						
structural subdivision							
Higher education and	Higher education level—Bachelor						
the name of the qualifi-	Qualification – Bachelor of publishing and printing production						
cation in the language of							
the original							
The formal name of the	Educational-professional bachelor's degree programme Information						
educational programme	technologies in the media industry						
Type of diploma and	Bachelor's degree diploma, unit, 240 credits, ECTS						
volume of the educa-	the term of training is 3 years 10 months						
tional programme							
Accreditation	Accreditation certificate: series BC No. 1192650 dated September 25,						
	2017						
Cycle / Level	NRK of Ukraine – the 7-th level, FQ-EHEA – the first cycle, EQF-LLL						
	– the 6-th level.						
Preconditions	General secondary education						
Teaching language (s)	Ukrainian/English						
Validity of the educa-	Until the next accreditation						
tional programme							
Internet address of per-	http://web.kpi.kharkov.ua/say						
manent placement of the							
educational programme							
	- The purpose of the educational programme						
Training of a specialist ca	pable to use the modern information technologies in the field of publish-						
ing and printing production	on and to implement innovative professional activity.						
3 -	- Characteristic of the educational programme						
Subject area (field of	Field of knowledge: 18 Production and technology						
knowledge, speciality,	Speciality: 186 Publishing and printing production						
programme)	Programme: Information technologies in the media industry						
Orientation of the educa-	Educational-professional						
tional programme							
The main focus of	Special education in the field of production and technology by speciali-						
educational programme	ty Publishing and printing production of the programme Information						
and specializations	technology in the media industry. Keywords: publishing, printing, de-						
_	sign, print publications, electronic publications, software, multimedia						
	information products						
Features of the pro-	The difference of this programme from others is the professional and						
gramme	practical emphasis on the training of publishing and printing specialists						
	who are focused on the use of modern IT multimedia technologies.						
	Special practice in the IT companies of the department's partners is						
	mandatory.						

4 – The ability of graduates to find employment and further education									
Suitability		Types of economic activity:							
employme		72 Activities in the field of informatization							
Chipioyine		80 Education							
		Professional titles:							
		22.1 Publishing activities							
		22.11 Publishing books							
		22.3 Replication of recorded media							
		22.33 Replication of video recordings							
		22.2 Printing and service activities related to printing							
		2139.2 System engineer of the publishing and printing production							
		2149.1 Technologist-researcher (publishing and printing production)							
Eventh on two	inin a	2149.2 Technologist of electronic multimedia editions  Ability to continue education at the second (educational scientific) level							
Further tra	uning	Ability to continue education at the second (educational-scientific) level							
		for obtaining a master's degree  5 – Teaching and evaluation							
Teaching a	and	Lectures, workshops and seminars, computer workshops and laboratory							
teaching		work; mixed learning technology; Baccalaureate work.							
Evaluation	 າ	Oral and written examinations, testing. Evaluation is carried out on a							
		national scale (excellent, good, satisfactory, unsatisfactory); 100-point							
		scale and ECTS scale (A, B, C, D, E, FX, F).							
		6 – Programmatic competencies							
Integral		Ability to solve complex specialized problems and practical problems of							
competend	ce	professional activity in publishing and printing or in the process of study,							
1		which envisages application of theoretical foundations of natural sciences,							
		humanities, social sciences, methods of information technologies, theories,							
		methods and means of designing, manufacturing, distribution of all kinds							
		of products. Publishing and printing is characterized by complexity and							
		uncertainty of the conditions.							
		General competences (GC)							
GC 1	Ability to this	nk abstractly, apply methods of analysis and synthesis.							
GC 2	Ability to app	oly knowledge in practical situations.							
GC 3	Ability to pla	n and manage time.							
GC 4	Ability to kno	ow and understand subject area and professional activity.							
GC 5	Ability to cor	mmunicate in the state language orally and in writing.							
GC 6		mmunicate in a foreign language.							
GC 7		rch, process and analyse information from various sources.							
GC 8		critical and self-critical.							
GC 9	Ability to flex	kibly adapt to different professional situations.							
GC 10	Ability to sys	tematically analyse their professional and social activities, evaluate the							
	accumulated experience.								
GC 11	Ability to generate new ideas (creativity).								
GC 12	Ability to work in a team.								
GC 13	Professional computer skills and information technology.								
GC 14	Ability to work in an international context.								
GC 15	•	Ability to assess and ensure the quality of work performed.							
GC 16	-	exercise their rights and responsibilities as a member of society, to real-							
		s of the civil (free democratic) society, the rule of law, human and civil							
		edoms in Ukraine.							
GC 17		neralize the main categories and concepts of the subject area in the con-							
	text of the general histoire process.								

	Professional competences of the specialty (PC)
PC 1	Ability to understand the processes and phenomena inherent in all stages of
101	production of printed and electronic publications, packages, multimedia
PC 2	information products and other types of products of publishing and printing.
PC 2	Ability to apply appropriate mathematical and technical methods and computer
PC 3	software for solving engineering problems of publishing and printing.
PC 3	Ability to demonstrate the practical skills of a specialist in publishing and
	printing; apply and integrate knowledge and understanding of other industries
DC 4	and technologies.
PC 4	Ability to apply the principles of processing, registration, formation, reproduc-
	tion, storage of text, graphics, sound and video information and features of its
	use for the production of printed and electronic publications, packages, multi-
	media information products and other types of products of publishing and
PC 5	printing.
PC 3	Ability to make rational choice of technologies, materials, equipment, hard-
	ware-software, methods and means of control for the development of the tech-
	nological process of manufacturing printed and electronic publications, pack-
	ages, multimedia information products and other types of products of publishing and printing
PC 6	ing and printing.  A bility to design the structure design and design of printed and electronic pub.
rco	Ability to design the structure, design and design of printed and electronic publications, packages, multimedia information products and other types of pub-
	lishing and printing products using modern software and hardware.
PC 7	Ability to demonstrate understanding of metrological support, standardization,
107	problems and directions of quality assurance of production and technologies.
PC 8	Ability to understand and take into account the social, environmental, ethical,
100	economic, legal and commercial factors that influence the implementation of
	technical solutions in publishing and printing.
PC 9	Ability to make informed technical and economic decisions regarding the
	implementation of a specific project of publishing and printing activity within
	the framework of publishing, production plans of the enterprise; development
	of normative and technical documentation of the production process of
	manufacturing products.
PC 10	Ability to plan and organize the production, operation, maintenance, distribu-
	tion of products in publishing and printing, taking into account all aspects of
	the problem to be solved.
	Professional competences of specialization (PCS)
PCS 1	Ability to design and evaluate the quality of modern Web-resources.
PCS 2	Ability to demonstrate understanding of standardization, colour design of prob-
	lems and directions of quality of Web-resources.
PCS 3	The ability to make a rational choice of technology, hardware and software
	when publishing media products.
PCS 4	Ability to make informed technical and economic decisions regarding the crea-
	tion and implementation of electronic publications.
	7 – Programmatic results of learning
DI 4	Programmatic results of learning in the specialty
RL 1	Apply basic professional and scientific knowledge in the field of natural sci-
	ences, socio-humanities and economics in cognitive and professional activities.

RL 2 To carry out information research in order to ensure the reasonableness and competitiveness of technical solutions: to find, evaluate and use information from various sources necessary for solving practical and professional tasks.  RL 3 Apply modern methods that ensure the safety of people's lives and their protection against the possible consequences of accidents, disasters and natural disasters, apply methods of rational use of raw materials, energy and other types of resources.  RL 4 Demonstrate the ability to organize their activities, work autonomously and in a team; have the skills of interaction in the team to perform tasks in professional activities, apply effective forms of professional and interpersonal communication; create creative and friendly microclimate in the team; to establish a non-conflict relationship.  RL 5 Have the skills of communication in state and foreign languages, using professional terminology.  RL 6 Use knowledge of preprinting technology, printing and postprinting processes, colour theory, text and multimedia information processing techniques to ensure the quality of print and electronic publications, packaging, multimedia information products and other types of publishing and printing products in accordance with current standards.  RL 7 Have methods and methods for working out text, graphic and multimedia information, use of information technologies and software during development of publishing projects.  RL 8 Design, structure, design and evaluate the specifications of printed and electronic publications, packages, multimedia information products and other types of publishing and printing products using modern technological solutions and software products.  RL 9 To substantiate the concept of the publication, to develop the structure, structure, design and apparatus of all types of products of publishing and printing, to develop working documentation to ensure the process of their creation.  RL 10 Use software and computer information technological processes.  RL 11 To dev		
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RL 14 Analyse and evaluate production and non-production costs to ensure the required quality of products, analyse the performance of production units.	RL 14	Analyse and evaluate production and non-production costs to ensure the required quality of products, analyse the performance of production units

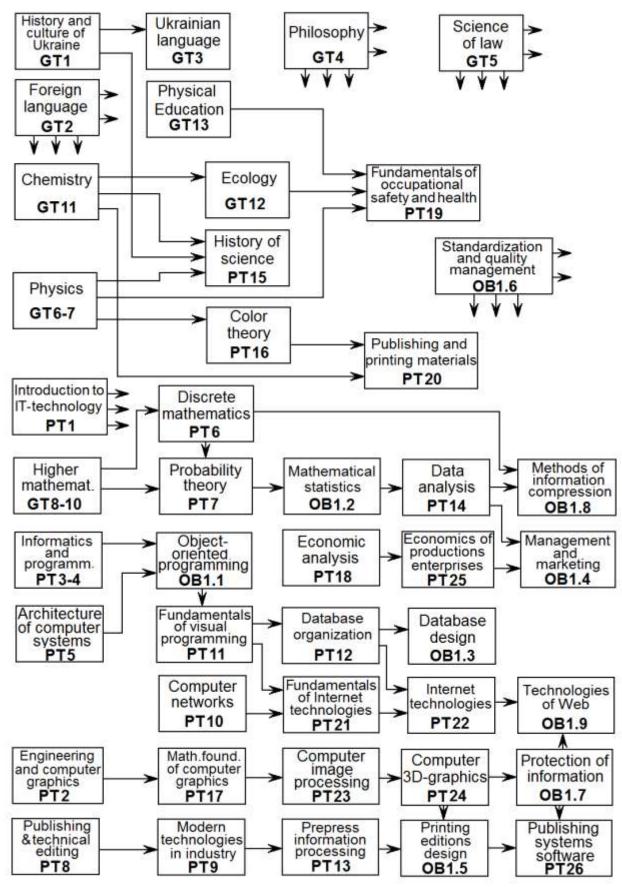
RL 15 To select and apply devices and devices for measuring the quality parameters of materials, equipment, semi-finished products and finished products during the manufacture of all types of products of publishing and printing; to organize the metrological support of technological processes using standard methods of product quality control.  RL 16 Present the results of professional activity in the form of abstracts, presentations, projects, reports, etc.  RL 17 Have the skills of exploiting the technical means of publishing systems; know the operating rules of printing equipment.  Programmatic results of learning by specialization  RLS 1 Select and apply software applications for creating Web sites.  RLS 2 Develop 3D graphics for electronic editions and Web applications, use the appropriate 3D editing software.  RLS 3 To select and apply software solutions for the protection of information in publishing systems.  RLS 4 Analyse and evaluate colour solutions for Web sites and electronic publications, develop their own solutions and colour templates.  8 - Resource support for the implementation of the program  Personnel support  It meets the personnel requirements for ensuring the implementation of educational activities in the field of higher education for the second (master's) level in accordance with the requirements of Appendix 12 to the Licensing Terms, approved by the Resolution of the Cabinet of Ministers of Ukraine dated December 30, 2015 № 1187.  Information and educational and methodological requirements for teaching and methodological requirements of Appendix 12 to the Licensing Terms, approved by the Resolution of the second (master's) level in accordance with the requirements of Appendix 13 to the Licensing Terms, approved by the Resolution of the Cabinet of Ministers of Ukraine dated December 30, 2015 № 1187.  Corresponds to the technological requirements for teaching and methodological requirements of the cabinet of Ministers of Ukraine dated December 30, 2015 № 1187.  Selection of the Second (ma											
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## 2. LIST OF COMPONENTS OF THE EDUCATIONAL AND PROFESSIONAL PROGRAM

Code	Components of the educational program (study disciplines, course projects / term papers, practice, qualification work)	Amount of credits	Form of final control						
1	2	3	4						
1. General training cycle									
Compulsory components of the educational program									
GT 1	History and culture of Ukraine	4	Exam						
GT 2	Foreign language	12	Exam, Credit						
GT 3	Ukrainian as a foreign language	3	Exam						
GT 4	Philosophy	3	Exam						
GT 5	Science of law	3	Credit						
GT 6-7	Physics. Part 1. Part 2.	4+4	Credit						
GT 8-10	Higher mathematics. Part 1, Part 2, Part 3.	5+5+5	Exam, Credit						
GT 11	Chemistry	4	Credit						
GT 12	Ecology	3	Credit						
GT 13	Physical Education	12	Credit						
	2. Professional training								
	Compulsory components EP								
PT 1	Introduction to computer science and information technology	3	Credit						
PT 2	Engineering and computer graphics	4	Exam						
PT 3-4	Informatics and programming. Part 1. Part 2.	6+6	Exam						
PT 5	Architecture of computer systems	4	Exam						
PT 6	Discrete mathematics	4	Exam						
PT 7	Probability theory	4	Credit						
PT 8	Publishing and technical editing	5	Exam						
PT 9	Modern technologies in publishing and the media in- dustry	5	Credit						
PT 10	Computer networks	4	Exam						
PT 11	Fundamentals of visual programming	5	Exam						
PT 12	Database organization	5	Exam						
PT 13	Prepress information processing	5	Exam						
PT 14	Data analysis	5	Exam						
PT 15	History of science and technology	3	Credit						
PT 16	Color theory	4	Exam						
PT 17	Mathematical foundations of computer graphics	4	Exam						
PT 18	Economic analysis	3	Credit						
PT 19	Fundamentals of occupational safety and health	3	Exam						
PT 20	Publishing and printing materials	4	Credit						
PT 21-22	Fundamentals of Internet technologies. Part 1. Part 2	6+5	Exam						
PT 23	Computer image processing	5	Exam						
PT 24	Computer 3D-graphics and animation	4	Exam						
PT 25	Economics of productions and printing enterprises	3	Credit						

1	2	3	4						
PT 26	Publishing systems software	4	Exam						
	Selective components EP								
Optional disciplines in blocks 1									
OB 1.1	Object-oriented programming	5	Exam						
OB 1.2	Mathematical statistics	4	Exam						
OB 1.3	Database design	4	Exam						
OB 1.4	Management and marketing in publishing and printing systems	4	Exam						
OB 1.5	Fundamentals of printing editions design	4	Exam						
OB 1.6	Standardization and quality management	3	Credit						
OB 1.7	Protection of information in publishing systems	4	Exam						
OB 1.8	Modern methods of information compression	4	Exam						
OB 1.9	Technologies of Web resources development	4	Exam						
	Optional disciplines in blocks 2								
OB 2.1	Software visualization of graphic data	5	Exam						
OB 2.2	Algorithms and systems of plagiarism search	4	Exam						
OB 2.3	Database design	4	Exam						
OB 2.4	Network planning	4	Exam						
OB 2.5	Advertising technologies	4	Exam						
OB 2.6	Internet marketing of publishing and printing production	3	Credit						
OB 2.7	Security printing technologies	4	Exam						
OB 2.8	Electronic publishing preparation technologies	4	Exam						
OB 2.9	Computer design of illustrated production	4	Exam						
	raining total:		67						
	nal training total:		113						
	ory components total:		180						
	s of free choice total:		60						
<b>EDUCA</b>	TIONAL PROGRAMME TOTAL		240						

#### 3. STRUCTURAL-LOGICAL SCHEME OF EDUCATIONAL-PROFESSIONAL PROGRAMME "PUBLISHING AND PRINTING PRODUCTION"



### 4. FORM OF GRADUATE ATTESTATION OF HIGHER EDUCATION APPLICANTS

Final certification of higher education graduates for the educational program of specialty 186 Publishing and printing production is carried out in the form of defense of qualifying work and ends with the issuance of the document (diploma) of the established sample on awarding a bachelor's degree with qualification: a bachelor of publishing and printing production for the educational program Information technologies in the media industry.

Final certification is carried out openly and publicly.

### 5. MATRIX OF RELEVANCE OF PROGRAMMATIC COMPETENCIES TO THE COMPONENTS OF EDUCATIONAL-PROFESSIONAL PROGRAMME

	GT 1	GT 2	GT 3	GT 4	GT 5	CT 6-7	GT 8-10	GT 11	GT 12	GT 13	PT 1	PT 2	PT 3	PT 4	PT 5	PT 6	PT 7	PT 8	PT 9	PT 10	PT 11	PT 12
GC 1				+		+																
GC 2	+																					
GC 3				+			+			+												
GC 4						+		+	+									+	+			
GC 5	+		+		+																	
GC 6		+																				
GC 7		+	+								+									+		+
GC 8				+	+																	
GC 9										+	+								+			
GC 10				+			+										+					+
GC 11				+																		
GC 12										+												
GC 13											+		+	+	+	+				+	+	+
GC 14		+									+									+		
GC 15					+														+			
GC 16	+		+		+					+												
GC	+			+																		
PC 1																						
PC 2							+				+		+	+	+	+	+		+	+	+	+

	GT 1	GT 2	GT 3	GT 4	GT 5	CT 6-7	GT 8-10	GT 11	GT 12	GT 13	PT 1	PT 2	PT 3	PT 4	PT 5	PT 6	PT 7	PT 8	PT 9	PT 10	PT 11	PT 12
PC 3											+							+	+			
PC 4						+										+		+	+			
PC 5													+	+	+				+	+		
PC 6																						
PC 7																						
PC 8	+		+	+					+													
PC 9																						
PC 10				+							+								+			
PCS 1												+	+							+	+	+
PCS 2																+				+	+	
PCS 3						+																
PCS 4						+					+		+	+	+				+	+		

### MATRIX OF RELEVANCE OF PROGRAMMATIC COMPETENCIES TO THE COMPONENTS OF EDUCATIONAL-PROFESSIONAL PROGRAMME (TABLE CONTINUATION)

	PT 13	PT 14	PT 15	PT 16	PT 17	PT 18	PT 19	PT 20	PT 21-22	PT 23	PT 24	PT 25	PT 26	OB 1.1	OB 1.2	OB 1.3	OB 1.4	OB 1.5	OB 1.6	OB 1.7	OB 1.8	OB 1.9
GC 1			+																			
GC 2	+																					
GC 3		+	+			+																
GC 4	+					+	+										+					
GC 5																						
GC 6																						
GC 7									+							+	+				+	+
GC 8			+																			
GC 9	+		+				+															
GC 10		+	+			+									+	+						
GC 11			+																			
GC 12			+																			
GC 13					+				+	+	+		+	+		+					+	+
GC 14									+			+								+		+
GC 15							+					+						+	+	+		
GC 16			+			+	+					+							+			
GC			+																			
PC 1				+	+			+	+	+	+			+			+	+			+	+
PC 2		+							+	+	+			+	+	+					+	+

	PT 13	PT 14	PT 15	PT 16	PT 17	PT 18	PT 19	PT 20	PT 21-22	PT 23	PT 24	PT 25	PT 26	OB 1.1	OB 1.2	OB 1.3	OB 1.4	OB 1.5	OB 1.6	OB 1.7	OB 1.8	OB 1.9
PC 3																						
PC 4	+				+			+	+	+	+		+							+		+
PC 5	+												+									+
PC 6	+				+			+		+	+		+	+								+
PC 7								+										+	+			
PC 8			+				+					+										
PC 9								+				+					+		+	+		
PC 10							+					+					+					
PCS 1					+				+		+					+				+		+
PCS 2				+	+				+	+	+			+				+			+	+
PCS 3									+				+							+	+	+
PCS 4						+			+			+	+				+		+		+	+

### 6. MATRIX OF PROVISION OF PROGRAMMATIC EDUCATION RESULTS OF THE RELEVANT COMPONENTS OF THE EDUCATIONAL-PROFESSIONAL PROGRAMME

	GT 1	GT 2	GT 3	GT 4	GT 5	C-9 LD	GT 8-10	GT 11	GT 12	GT 13	PT 1	PT 2	PT 3	PT 4	PT 5	PT 6	PT 7	PT 8	PT 9	PT 10	PT 11	PT 12
RL 1				+		+	+	+	+													
RL 2		+	+		+																	
RL 3					+	+		+	+										+			
RL 4	+			+						+	+											
RL 5	+	+									+							+	+			
RL 6											+							+	+			
RL 7												+	+	+		+	+		+		+	+
RL 8													+	+	+					+	+	+
RL 9																						
RL 10																						
RL 11						+		+														
RL 12										+									+			
RL 13										+												
RL 14																						
RL 15																						
RL 16				+																		
RL 17																			+			
RLS 1																				+		
RLS 2							+													+	+	
RLS 3							+								+					+	+	
RLS 4																						

									21-22					1	2	3	4	5	9	7	∞	6
	PT 13	PT 14	PT 15	PT 16	PT 17	PT 18	PT 19	PT 20	PT 21	PT 23	PT 24	PT 25	PT.26	OB 1.1	OB 1.2	OB 1.3	OB 1.4	OB 1.5	OB 1.6	OB 1.7	OB 1.8	OB 1.9
RL 1																	+		+			
RL 2			+									+					+		+	+		
RL 3							+															
RL 4			+				+															
RL 5																						
RL 6	+	+						+				+					+					
RL 7	+	+			+					+				+	+	+						
RL 8									+				+			+				+	+	
RL 9				+	+			+		+	+							+				+
RL 10				+				+		+	+		+					+	+			
RL 11	+									+												
RL 12	+	+										+					+					
RL 13				+			+						+						+			
RL 14		+		+									+						+			
RL 15								+					+				+					
RL 16			+		+				+	+	+		+		+						+	+
RL 17													+									
RLS 1				+					+		+							+				+
RLS 2									+		+							+				+
RLS 3													+							+		+
RLS 4				+	+					+								+				+