MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE RIVNE STATE UNIVERSITY OF HUMANITIES

EDUCATIONAL AND PROFESSIONAL PROGRAM Secondary Education (Informatics)

Second (master) higher education level Specialty 014 Secondary Education (Informatics) Branch of knowledge 01 Education / Pedagogy Qualification: master of secondary education, lecturer of informatics. Teacher of informatics. Expert in computer science

APPROVED BY THE ACADEMIC COUNCIL Chairman of the Academic Council
Professor R.M. Postolovsky
(protocol No. 4 dated April 24, 2018)
The educational program will come into effect from, 2018
Rector Professor R.M. Postolovskyi / / / / / / / / / / / / / / / / / / /

Rivne - 2018

APPROVAL SHEET Educational and Professional program

HIGHER EDUCATION LEVEL SPECIALTY BRANCH OF KNOWLEDGE QUALIFICATION Second (master) 014 Secondary Education (Informatics) 01 Education / Pedagogy Master of secondary education, lecturer of informatics. Teacher of informatics. Expert in computer science

Developers of the program:

- 1. N. S. Pavlova, Ph.D., associate professor
- 2. A. Ya. Bomba, Doctor of Technical Sciences, Professor
- 3. G. O. Shlikhta, Ph.D., associate professor

MADE BY

Department of information and communication technologies and methods of teaching informatics

A

Protocol No. 1 dated January 23, 2018

Head of Department _____ associate professor N. S. Pavlova

AGREED

Academic Council of the faculty of mathematics and informatics Protocol No. 2 dated February 27, 2018

A A associate professor M.I. Shagraichuk

APPROVED

Chairman of the

Academic Council

Academic Council of the Rivne State University of Humanities Protocol No. 4 dated April 24, 2018

Chairman of the Academic Cound

professor R.M. Postolovskyi

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INTRODUCTION

The Educational and Professional program of the Master in specialty 014 Secondary Education (Informatics) was developed for the implementation of the Standard of Higher Education at the appropriate level of higher education by the project team of the Rivne State University of Humanities:

Project Team Leader (Educational Program Guarantor):

Nataliia S. Pavlova, candidate of pedagogical science, associate professor, assistant professor of the Department of Information and Communication Technologies and Computer Science Teaching Methods;

Project team members:

Andrey Ya. Bomba, Doctor of Technical Sciences, Professor, Head of the Department of Informatics and Applied Mathematics;

Ganna O. Schlikhta, candidate of pedagogical science, associate professor, assistant professor of the department of information and communication technologies and methods of teaching informatics.

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1. Educational Program Profile in specialty 014 Secondary Education (Informatics)

	1 – General information
Full name of higher	Rivne State University of Humanities.
educational institution	
and structural unit	
The degree of higher	Другий рівень вищої освіти.
education and the name	Магістр середньої освіти, викладач інформатики. Вчитель
of the qualification in the	інформатики. Фахівець у галузі комп'ютерних наук.
language of the original	The second level of higher education.
	Master, Secondary Education (Informatics), Lecturer of Informatics.
	Teacher of Informatics, Expert in computer science.
The official name of the	Educational and Professional program of specialty 014 Secondary
educational program	education (Informatics)
Type of diploma and the	Master's degree, unitary, 90 ECTS credits, term of study 1 year 5
volume of the	months.
educational program	
Availability of	Certificate of Accreditation (series УД № 18001455) expires on
Accreditation	01.07.2023.
Cycle / Level	NQF Ukraine - 7th level, FQ-EHEA - second cycle, EQF-LLL - 7
	level.
Prerequisites	Availability of a bachelor's degree, a specialist, a master's degree.
Language(s) of teaching	Ukrainian.
The duration of the	Permanently.
educational program	
Internet address of the	http://fmi-rshu.org.ua/pages/informatyka-b7faf4b1-b886-472b-97e0-
permanent description of	8f801020ee15.
the educational program	The number of the educational program
	<i>c</i> – The purpose of the educational program pecialists for educational institutions capable to organize the process of
Training of highly skilled s	pecialists for concational institutions capable to organize the process of
studying informatics and	information and communication technologies in the conditions of
studying informatics and reforming secondary and h	information and communication technologies in the conditions of gher education, to effectively and expediently use the latest information
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reatures	of the program	Demands an individual approach in shaping		
		using information and innovation technologies for the design and development of information		echnologies
	4 – Abilit	y graduates for employment and further edu	-	
		y graduates for employment and further edd ready to work in the fields of economy in ДК 00		
Code	Specialisi	Name	NACE	ISIC
couc		1 (unite	(Rev. 1.1)	(Rev. 4)
85.31	Secondary educat	ion	80.21	8521
85.32				8522
00.02				8522
			80.22	8522
			80.42*	8522
85.42	Higher Education		80.30*	8530*
62.02	Advice on inform		72.10	6202*
			72.22*	6202*
62.03	Activities in the n	nanagement of computer equipment	72.30*	6202*
62.09		in the field of information technology and	30.02*	6209
-	computer systems	•••	72.22*	6209
	- <i>•</i>		72.60	6209
63.11	Processing data,	placing information on web-sites and related	72.30*	6311
	activities		72.40*	6311
63.12	Web portals		72.40*	6312
	A specialist is ab	le to perform the specified professional work in	ДК 003:2010)
Code	^	Name	, ,	
2310.2	Assistant			
2310.2	Teacher of higher	educational institution		
2320	Teacher vocation	al and technical educational institutions		
2320	Teacher of secondary educational institution			
2320	Methodologist of correspondence schools and departments			
234	Teachers of specialized educational institutions			
235	Other education professionals			
2351	Professionals in the field of teaching methods			
2351.1		r (teaching methods)		
2351.1	Researcher (teach			
2351.1		onsultant (teaching methods)		
2351.2	Teacher (teaching			
2352	Inspectors school			
2359	Other education professionals			
2359.1	Other research staff in the field of training			
2359.2	Other education professionals			
3121.2	Information Tech			
3121.2	<u> </u>	vare development and testing		
3121.2	· · ·	puter software development		
Further	training	NQF – 9 level, FQ-EHEA – third cycle, EQF	LLL – 8 level	•
Tec-1		5 – Teaching and Assessment	nuchlare	tod loom in
reaching	g and learning	Teaching on the basis of student-centered and with the use of multimedia lectures practice	1	0
		with the use of multimedia lectures, practical		•
		passing of practices, with the involvement of self year, more than half of the time is devoted to		-
		which is presented and defended before the comm	-	
		*		
Assessme	ent	Oral and written examinations credits defe	ense of practi	ce renorte
Assessme	ent	Oral and written examinations, credits, defect certification, defense of thesis.	ense of practi	ice reports,

Integral competence	The ability to solve different types of problems and challenges in
Integral competence	training and educational activities, which are characterized by
	complexity and uncertainty of conditions, providing research,
	innovation, using software developed educational purposes.
General competence	1. Ability to abstract and critical thinking, the use of methods of
(GC)	mental activity.
	2. Ability to apply knowledge in practical situations.
	3. Knowledge of lexical, grammatical, stylistic features of state and
	foreign vocabulary, terminology in the field of information
	technologies, grammatical structures for the understanding and
	production of oral and written foreign texts in the professional
	field
	4. Skills in the use of information and communication technologies.
	5. Ability to plan and manage time.
	6. Ability to learn and master modern knowledge.
	7. Ability to generate new ideas (creativity), make informed
	decisions, be proactive.
	8. Ability to identify and shape problems in professional activities and solve them at a professional level
	solve them at a professional level.9. Ability to communicate with representatives of other professional
	groups of different levels (with experts from other fields of
	knowledge / types of economic activity).
	10. Ability to develop and manage pedagogical projects; evaluate
	and ensure the quality of work performed.
	11. Ability to understand the importance of information in modern
	society, to carry out information processes, to deal responsibly with
	information security issues.
	12. Knowledge of the system of general norms of moral behavior
	of a person and group of people, principles of team work, readiness
	to interact with participants in the educational process and social
	partners, tolerant perception of social, ethnoconfessional and
	cultural differences, adhering to regulatory legal acts and
	international standards for the implementation of labor protection
	policy of the state.
Professional competence	1. Knowledge of methods and methods of teaching, methods of self-education, bases of scientific and research activity,
of the specialty (PC)	methods of search, collection, analysis and processing of
	information in pedagogical activity.
	2. Knowledge of theoretical positions of psychology and pedagogy
	of higher education.
	3. Knowledge of mathematical bases and basic algorithms of
	system, functional possibilities of their application in solving
	applied problems of software development of educational
	information system.
	4. Knowledge of methodological approaches, principles and
	general scientific and special methods of scientific and
	pedagogical researches, identification of research problems and
	formulation of own research directions.
	5. Knowledge of the principles of object-oriented and generalized
	programming. 6 Knowledge of the principles of effective choice of personal
	6. Knowledge of the principles of effective choice of personal computer configurations and operation of operating systems.
	7. Knowledge of the concepts of specialized schools; aspects of in-
	depth study of computer science; prospects for the
	acpui study of computer science, prospects for the

 development of educational robotics: components of the methodical system of teaching computer science; innovative pedagogical technologies of computer science; innovative pedagogical technologies of computer science education; basics of working with gifted children. 8. Knowledge of futoritons and models of distance learning, normative and legal basis of distance learning system, technology of designing distance education courses. 9. Knowledge of theoretical bases and regulatory requirements for educational information systems of educational institutions of different levels, methodologies and technologies for their design, development and implementation in the educational process. 10. Knowledge of theoretical bases of test control of knowledge of students and students, rules of software selection for testing of educational achievements. 11. Acquire and use fundamental knowledge in the fields of pedagogy and informatics taking into account interdisciplinary connections. 12. Use technologies and tools of search engines, methods of intellectual analysis of data and texts, to carry out their processing, interpretation and generalization. 13. To develop educational and scientific projects, to demonstrate their realization in practice and to summarize them in scientific articles and scientific and texts of the experimental part of pedagogical research and assessing the quality of education. 16. Use modern web-development technologies to create information resources and web-services, to implement innovative information technologies in the educational process. including models of distance and mixed learning. 17. Design and develop advanced cotivare. 18. Plan, develop and implement specialized and advanced courses in informatios taking into account the latest learning technologies. 19. Design, organize and conduct research and development of pupils and students; develop individual educational routes talented youth. <li< th=""><th></th></li<>	
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knowledge and explanations that justify them to people who	

	are trained specialists and non-specialists.
	24. Decision-making in complex and unpredictable conditions
	requiring new approaches and forecasting.
	25. Responsibility for the development of professional knowledge
	and practice, assessment of team strategic development, ability
	to further education, including self-education.
	7 – Program learning results
	1. To form an educational environment, use modern methods and
	technologies for the organization of educational and cognitive
	activity, diagnostics and assessment of the quality of education
	in different educational programs.
	2. Apply the knowledge of the fundamental and adjacent applied
	sections of special disciplines of the master's program taking
	into account the general methodological approaches.
	3. Use modern methods and technologies of scientific
	communication in Ukrainian and foreign languages.
	4. Use modern computer technology for system, functional,
	design, technological design and development of educational
	information systems for purposes.
	5. Participate in the creation, maintenance and development of e-
	learning resources, educational portals and distance learning
	organizations.
	•
	6. Participate in creating conditions for the disclosure of the
	creative potential of trainees, taking into account interests,
	requests and abilities, including through the appropriate
	selection of educational content.
	7. Use the results of scientific research in their own professional
	and scientific activities, using modern information
	technologies.
	8. Organize the research activities of trainees, using their own
	professional experience and present their findings in the form
	of reports, articles, etc.
	9. Organize teams (educational, methodical, etc.) and coordinate
	their various activities.
	10. Develop mechanisms for effective management of schools and
	support their practical implementation.
	rce support for the implementation of the program
Personnel support	Lectures on disciplines of scientific and pedagogical staff of the
	relevant specialty who have a scientific degree and / or affiliation, and are the main place of work is more than 50% of the curriculum
	specified number of hours; having academic degree or doctorate title
	of professor - over 25%.
Material and technical	Material and technical support meets the licensing requirements for
	providing educational services in the field of higher education and is
support	
Information and	sufficient to ensure the quality of the educational process.
	Information and teaching and methodological support of the educational program for the training of specialists in the specialty 014
teaching and	educational program for the training of specialists in the specialty 014 Secondary education (Informatics) corresponds to the licensing
methodological support	Secondary education (Informatics) corresponds to the licensing
	requirements. The virtual learning environment of the Piyne State University of
	The virtual learning environment of the Rivne State University of
	Humanities is used and author's development of the teaching staff.
Notional Coult Materia	9 – Academic mobility
National Credit Mobility	On the basis of bilateral agreements between Rivne State University of
	Humanities and higher educational establishments and scientific

	institutions of Ukraine.
International Credit	On the basis of bilateral agreements between Rivne State University of
Mobility	Humanities and foreign educational institutions.
Studying foreign	Possible.
students	

3. The certification form of the applicants for Higher Education

The certification of graduates of the educational program by the specialty 014 Secondary Education (Informatics) held in the form of defense of thesis or preparation of complex examination on specialty and completion of the issuance of the diploma of the established sample about awarding him a master's degree with qualification: Master of Secondary Education, lecturer of Informatics. Teacher of Informatics. Expert in computer science.

Certification of educational-The certification forms graduates of the of the applicants for professional program "Secondary Education **Higher Education** (Informatics)" in the specialty 014 Secondary education (Informatics) is carried out in the form of: public defense of the thesis; qualification examination. The thesis is a scientific-research work of the applicants **Requirements of thesis** for Higher Education which performed on the final and its public defense stage of master's qualification in secondary education, lecturer of Informatics, teacher of Informatics for matching of general and special competencies (learning results) which obtained by applicants of higher education The specialty qualification examination is conducted in **Requirements of** writing. The specialty qualification examination is attestation exam conducted like complex verification of knowledge of (exams) the applicants for Higher Education professionallyoriented theoretical preparation for papers folded in full accordance with state certification programs. The tickets content of specialty qualification examination covers the material of profile disciplines within their programs. Paper set approved and signed by the Head of the Department.

The certification is carried out openly and publicly.

6. The system of internal quality assurance in Higher Education

The system of quality assurance in educational activity and quality of Higher Education (the system of internal quality assurance) by higher education institution functions at Rivne State University of Humanities, which provides for the implementation of such procedures and measures:

1) an identified principles and procedures of quality assurance in Higher Education;

2) monitoring and periodical preview of educational programs;

3) the annual assessment of applicants for Higher Education, scientific and pedagogical and pedagogical employees of the institution of Higher Education and regular publication of the results of such assessments on the official website of the Higher Educational institution, on information stands and in any other way;

4) ensuring the certification training of pedagogical, scientific and scientific and pedagogical employees;

5) ensuring the availability of the necessary resources for the organization educational process, including the independent work of applicants for Higher Education for each educational program;

6) ensuring the availability of the information systems for effective management of the educational process;

7) ensuring publicity of information about educational programs, degrees of Higher Education and qualifications;

8) ensuring an effective system of preventing and detecting academic plagiarism in the scientific works of Higher Education and applicants for Higher Education;

9) other procedures and measures.

The system of quality assurance in educational activity and quality of Higher Education (the system of internal quality assurance) by Higher Education institution can be evaluated by the National Agency for the Quality Assurance of Higher Education or independent institutions of assessment and quality assurance of Higher Education accredited by it on submission by the Rivne State University of Humanities for its compliance with the requirements to the system of quality assurance in Higher Education, which is approved by the National Agency for the Quality Assurance of Higher Education, and international standards and recommendations for the Quality Assurance of Higher Education.

Educational program guarantor, Project team leader

N. S. Pavlova

In addition, there is a list of components of the EP and their structural and logical scheme. And also an explanatory note to the EP.