

Ministry Of Education And Science Of Ukraine  
Higher Educational Establishment Of Ukroospilka  
«Poltava University Of Economics And Trade»



**POLTAVA UNIVERSITY OF  
ECONOMICS AND TRADE**

## **EDUCATIONAL - PROFESSIONAL PROGRAM**

Second (Master's) level of higher education  
Higher Education Degree: Master

Field of knowledge:  
**12 Information Technologies**

Specialty  
**122 Computer Sciences / Computer Sciences and Information  
Technologies**

## **Educational program «Computer Sciences»**

Qualification:  
**Master in Computer Sciences and Information Technologies**

**Poltava 2018**



## General characteristics

<b>Level of higher education</b>	Second ( Master) level of higher education
<b>Degree in Higher Education</b>	Master's Degree
<b>Field of Knowledge</b>	12 Information Technologies
<b>Specialty</b>	122 Computer Sciences / Computer Sciences and Information Technologies
<b>Educational program</b>	Computer Sciences
<b>Restrictions on Learning</b>	No restriction
<b>Educational qualification</b>	Master in Computer Sciences
<b>Description of the subject area</b>	<p><b>Theoretical content of the subject area:</b> modern models, methods, algorithms, technologies, processes and methods of receiving, representing, processing, analyzing, transmitting, storing data in information systems in order to systematize them and identify the necessary facts of information nature.</p> <p><b>Methods, techniques and technologies:</b> mathematical models, methods and algorithms for solving theoretical and applied problems that arise during the development of IT and PC; modern technologies and programming platforms; methods of collecting, analyzing and consolidating distributed information; technologies and methods of designing, developing and ensuring the quality of IT and PC components; methods of computer graphics and data visualization technology; technology knowledge engineering.</p> <p><b>Tools and equipment:</b> CASE-technologies for modeling and designing IT and PC; distributed computing systems; computer networks; cloud technologies, database management systems, operating systems.</p>

## Academic rights of the graduates

Possibility of continuing education in graduate school

## Employment of graduates

Professional activity as a specialist in the development of mathematical, information and software information systems, in the field of information technology, as well as the administrator of databases and systems.

Graduates can work in the profession according to the International Standard Classification of Occupation 2008 (ISCO-08):

2511 Systems Analysts;  
2512 Software Developers;  
2513 Web and Multimedia Developers;  
2514 Applications Programmers;  
2521 Database Designers and Administrators;  
2522 Systems Administrators;  
2166 Graphic and Multimedia Designers;  
2356 Information Technology Trainers

## ECTS credits needed to obtain a corresponding degree of higher education by the training cycles

The volume of the educational Master's program in the specialty of 122 Computer Sciences / Computer Sciences and Information Technology is:

- on the basis of bachelor degree - 122 Computer Sciences - 1,5 years (90 credits);
- on the basis of other bachelor degrees - 2 years (120 credits).

A minimum of 50% of the volume of the educational program should be aimed at providing general and special (professional) competencies in the specialty defined by the standard of higher education.

**List of educational disciplines of educational-professional program by the training cycles**

<b>Nº</b>	<b>Name of the discipline</b>	<b>Hours/Credits</b>
1	<b>Safety: labour Protection in industry. Civil defence</b>	90/3
2	<b>Analysis of Algorithms</b>	150/5
3	<b>Course project at the specialty</b>	150/5
4	<b>Methodology of teaching of informative and mathematical disciplines is in INSTITUTION of higher learning</b>	150/5
5	<b>Research Workshop</b>	150/5
6	<b>Fundamentals of Research in Computer Science</b>	120/4
7	<b>Project studies from a course the Modern methods of optimization and their programming</b>	150/5
8	<b>Modern Methods of Optimization and their Programming</b>	150/5

<b>Nº</b>	<b>Name of the discipline</b>	<b>Hours/Credits</b>
9	English Translation Training in IT	90/3
10	Simulation Modeling, Language Modeling and Simulation	150/5
11	Computer analysis of statistical data	150/5
12	Neural-Network Technology in Computer Science	150/5
13	Operating Systems Unix	150/5
14	Practical Research and Teaching Training	45/1,5
15	Pre-diploma Practical Training	180/6
16	Diploma Design	630/21
17	Final Certification	45/1,5
<b>Number of hours of training</b>		<b>2700/90</b>



## CONTACTS

POLTAVA UNIVERSITY OF ECONOMICS AND TRADE

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Web-site: [www.international.puet.edu.ua](http://www.international.puet.edu.ua)

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E-mail: [admission@puet.edu.ua](mailto:admission@puet.edu.ua)

•  
Facebook: [www.facebook.com/poltava.puet](http://www.facebook.com/poltava.puet)  
[www.facebook.com/PUETUkraine](http://www.facebook.com/PUETUkraine)

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