

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

The first (Bachelor) level of higher education

Field of knowledge:
12 Information Technologies

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

Educational program «Computer Sciences»

Qualification:
Bachelor in Computer Sciences and Information Technologies

Poltava 2018

General characteristics

Level of higher education	First (Bachelor) level of higher education
Degree in Higher Education	Bachelor's Degree
Field of Knowledge	12 Information Technologies
Specialty	122 Computer Sciences / Computer Sciences and Information Technologies
Educational program	Computer Sciences
Restrictions on Learning	No restriction
Educational qualification	Bachelor in Computer Sciences and Information Technologies
Requirements for the individual's level of education to study under this program	Complete secondary education
Description of the subject area	<p>Theoretical content of the subject area: 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>Methods, techniques and technologies: 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>Tools and equipment: 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 at the second (Master's) educational level

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 specialty according to the International Standard Classification of Occupations 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

The volume of the educational Bachelor's degree program in specialty 122 «Computer Science / Computer Science and Information Technologies» is:

- 240 ECTS credits on the basis of complete secondary education with 11-year term of education;
- 120 ECTS credits based on the educational qualification level of a junior specialist.

A minimum of 50% of the volume of the educational program should be directed towards the provision of general and special (professional) competencies in the specialty defined by the standards of higher education.

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

Nº	Name of the discipline	Hours/Credits
1	History and Culture of Ukraine	90/3
2	Foreign Language	90/3
3	Ukrainian Language (for Professional Purposes)	90/3
4	Philosophy	90/3
5	Physical Education	120/4
6	Algebra and Geometry	240/8
7	Discrete Mathematics	240/8
8	Mathematical Logic	90/3
9	Mathematical Analysis	180/6
10	Databases and Information Systems	120/4
11	Theory of Probability and Mathematical Statistics	240/8
12	Algorithms and Data Structures	120/4
13	Architecture of Computer Systems	90/3
14	Internet Technologies	120/4
15	Operating Systems and System Programming	90/3
16	Programming I	240/8
17	Programming II	180/6
18	Intelligent Information Systems	120/4
19	Information Networks	120/4

Nº	Name of the discipline	Hours/Credits
20	Course project at the specialty	30/1
21	Methods of Optimization and Operations Research	210/7
22	Image Making and Multimedia	150/5
23	Platform for Corporate Information Systems	120/4
24	Programming and Support for Web Applications	150/5
25	System Analysis and Theory of Decision Making	150/5
26	Safety:Life Safety	45/1,5
27	Safety: Labor Protection	45/1,5
28	Mathematical Analysis	120/4
29	Fundamentals of Computer Design	120/4
30	Designing Software Systems	120/4
31	Distributed Information-Analytical Systems	120/4
32	Theory of Algorithms	120/4
33	Theory of Information and Coding	90/3
34	Theory of Programming	120/4
35	Elements of Combinatorial Optimization	120/4
36	Methods of Optimization and Operations Research, Part II	240/8
37	Calculation Methods	180/6
38	Standards in Information Technology	90/3

Nº	Name of the discipline	Hours/Credits
39	Data analysis and statistical analysis application packages	120/4
40	Protection of Information	120/4
41	Informatics	240/8
42	Research Practicum	120/4
43	Organization and Processing of Electronic Information	120/4
44	Office Computer Technology	120/4
45	Project training on the course of Internet technologies	60/2
46	Project training in the course of computer science	60/2
47	Project Training Course Optimization Methods and Operations Research	30/1
48	Project training on the course of Programming II	60/2
49	Project Training Course System Analysis and Decision-Making Theory	30/1
50	Modern Programming Paradigm	120/4
51	Theory of Systems and Mathematical Simulation	120/4
52	Specialized Practical Training	600/10
53	Pre-diploma Practical Training	120/4
54	University Education	30/1
55	Diploma Design	90/3
56	Final Certification	30/1
Number of hours of training		7200/240

CONTACTS

POLTAVA UNIVERSITY OF ECONOMICS AND TRADE

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Web-site: www.international.puet.edu.ua

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E-mail: admission@puet.edu.ua

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Facebook: www.facebook.com/poltava.puet
www.facebook.com/PUETUkraine

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Instagram: [puet.poltava](https://www.instagram.com/puet.poltava)
[international_puet](https://www.instagram.com/international_puet)

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Youtube: www.youtube.com/puetpoltava

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