



ieU
INTERNATIONAL
EUROPEAN
UNIVERSITY



BUSINESS ARE EST
ieU
EUROPEAN SCHOOL
OF BUSINESS



European School of Business

Create the future of technology
today!

ieu.edu.ua





INTERNATIONAL
EUROPEAN
UNIVERSITY

Our goal is...

Provide students with qualitative education in the field of programming and software engineering in order to implement software, taking into account the requirements for its quality, reliability, and production characteristics.

We'll make your training productive and comfortable!

European School of Business creates the best conditions for achieving success on the way to the professional and personal growth of every student!

Become the professional of a new generation!

Advantages of studying at European School of Business



- Practical training is conducted by stakeholders of well-known IT companies (EPAM, Global Logic);
- Professional disciplines are taught in English;
- Senior students conduct practical training and internship in well-known IT firms, where further employment is possible;
- Senior students, in case of employment in Kyiv, have the opportunity to obtain a free schedule of attending classes;
- Much attention is paid to preserving the health of the students;
- Recognition of IEU Diploma in most countries of the world is a great opportunity for our students to work in foreign companies;
- After completing their studies, our graduates receive an international diploma.

Solve global market problems with innovative technologies!



About the educational program



BACHELOR

Field of knowledge - 12 «Information Technologies».
Specialty - 121 «Software Engineering».

This educational program specializes in training software development specialists who have the skills to produce software products for various IT services.

The program is based on well-known scientific and practical results, taking into account the current state of software engineering development.

The program is focused on current specializations (IoT, information security, etc.), within which further professional and scientific careers are possible.

The program is orientated on train specialists who are able to effectively and reasonably solve problems, design and develop high-quality software.

The final Bachelor's thesis required for obtaining a diploma is the development and testing of the application (program).

BACHELOR'S PROGRAM

Field of Study – 12 “Information Technology”
Specialty – 126 “Information Systems and Technology”

The educational program focuses on training specialists in the development of information systems and technologies. Graduates will acquire skills and competencies to create high-quality information systems and IT products for various fields, particularly in management.

The program is based on well-known scientific and practical research results related to the processes of creating information systems and technologies, taking into account the current state of the industry. It prepares students for current specializations that allow for further professional and academic career development.

The program is practice-oriented, preparing specialists capable of effectively and systematically solving the design and development challenges of information systems and technologies in management and decision-making support.

Graduates will defend their qualification work publicly as part of the final assessment.

About the educational program



BACHELOR'S PROGRAM

Field of Study – 12 “Information Technology”

Specialty – 122 “Computer Science”

The educational program focuses on training specialists in modeling, designing, and developing tools for information systems and technologies, including tools for data analysis and intellectualization. Graduates will have the skills and knowledge to create high-quality IT products for various fields.

The program is grounded in well-established scientific and practical research related to the creation of information systems and technologies, taking into account the current state of the industry. It is designed to address current specializations that enable further professional and academic career development.

The program is practice-oriented, preparing specialists who can effectively and systematically solve the design and development challenges of information systems and technologies across different areas.

Graduates will defend their qualification work publicly as part of the final assessment.



INTERNATIONAL CREDIT MOBILITY

European School of Business allows participants of the educational process to:

- study, intern, or conduct scientific activities in other higher education institutions beyond Ukraine;
- transfer obtained credits based on the European Credit Transfer System (ECTS), or using the assessment system of students' academic achievements adopted in the country of the partner higher education institution if it does not apply the ECTS;
- implement joint master's programs and receive individual scholarships.

Program coverage

BACHELOR'S DEGREE



240 ECTS credits



3 years 10 months

The target audience of the program

BACHELOR'S DEGREE

This program is for you if you want to become:

- Software engineer;
- Programmer (including databases);
- Software development and diagnostic specialist;
- Specialist in computer program development;
- IT director of the enterprise;
- Team leader.

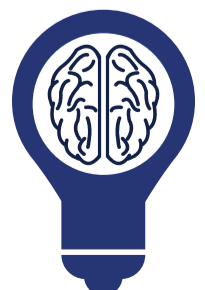
This program is for you if you want to know about:

- MySQL, SQL Server, Oracle;
- C++, Java, .Net, C#;
- ADO, ASP, WPF;
- Python, HTML, CSS;
- MySql, JavaScript;
- Development of mobile and web applications;
- QA engineering.

This program is for you if you desired to:

Study simultaneously according to the Certified Program "Embedded System Engineering" together with the well-known Global Logic IT company.

Embedded systems ensure the operation of many systems, such as cash registers, digital media players, consumer electronics, IP phones, server devices, pocket computers, and other mobile devices.



What can you study?

Bachelor of Information Systems and Technologies (IST)

General Education Courses:

- History of Ukrainian Statehood and Culture
- Academic Integrity and Fundamentals of Scientific Research
- Ukrainian Language (for professional purposes)
- Safety in Life, Labor Protection, and Civil Defense
- Foreign Language (for professional purposes)
- Philosophy, Ethics, and Aesthetics
- Law Studies
- Digital Learning Technologies and Professional Activity

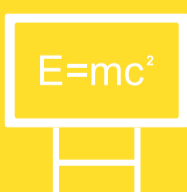
Professional Education Courses for the Specialty:

- Higher and Applied Mathematics
- Fundamentals of Programming
- Algorithms and Data Structures
- Computer Discrete Mathematics
- Fundamentals of Software Engineering
- Group Dynamics and Communication
- Object-Oriented Programming
- Database and Knowledge Organization
- Computer Network Organization
- Probability Theory and Mathematical Statistics
- Physics (Selected Topics)
- Human-Computer Interaction
- Operating Systems
- Requirements Analysis for Software
- Computer Architecture
- Software Architecture and Design
- Internet Application Programming
- Software Quality and Testing
- Software Construction
- Software Project Management
- Software Modeling and Analysis
- Software and Data Security
- Professional Practice in Software Engineering
- Software Economics
- Empirical Methods in Software Engineering

Selective courses

- Embedded systems engineering
- Digital Electronics
- Microcontroller Programming
- Development of applications with a graphical interface
- Development of software components libraries
- System analysis
- Data mining
- Data and knowledge storage technologies
- Design of distributed databases
- Web technology and web design
- Basics of computer graphics, game design
- Computer simulation

Military Department available at leading military universities



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Bachelor of Information Systems and Technology (IST)

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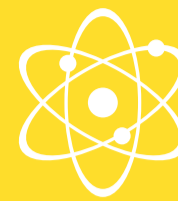
Professional Education Courses for the Specialty:

- Higher and Applied Mathematics
- Methods and Tools of Computer Information Technologies
- Fundamentals of Programming
- Algorithms and Data Structures
- Computer Discrete Mathematics
- Fundamentals of Software Engineering
- Group Dynamics and Communication
- Object-Oriented Programming
- Database and Knowledge Organization
- Computer Network Organization
- Probability Theory and Mathematical Statistics
- Physics (Selected Topics)
- Human-Computer Interaction
- Operating Systems
- Distributed Information Systems and Cloud Technologies
- Computer Architecture
- Information Systems Modeling
- Internet Application Programming
- Decision Theory
- Systems Analysis
- IT Project Management
- Information Systems Architecture and Design
- Software and Data Security
- Data Analytics and Business Intelligence Technologies
- Information Systems Economics and Documentation
- Methods and Tools of Information Systems and Technology Intellectualization

Selective courses

- Embedded systems engineering
- Digital Electronics
- Microcontroller Programming
- Development of applications with a graphical interface
- Development of software components libraries
- System analysis
- Data mining
- Data and knowledge storage technologies
- Design of distributed databases
- Web technology and web design
- Basics of computer graphics, game design
- Computer simulation

Military Department available at leading military universities



What can you study?

Bachelor of Computer Technology (CT)

General Education Courses:

- History of Ukrainian Statehood and Culture
- Academic Integrity and Fundamentals of Scientific Research
- Ukrainian Language (for professional purposes)
- Safety in Life, Labor Protection, and Civil Defense
- Foreign Language (for professional purposes)
- Philosophy, Ethics, and Aesthetics
- Digital Learning Technologies and Professional Activity

Professional Education Courses for the Specialty:

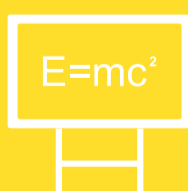
- Mathematical Analysis
- Methods and Tools of Computer Information Technologies
- Fundamentals of Programming
- Algorithms and Data Structures
- Computer Discrete Mathematics
- Linear Algebra and Analytical Geometry
- Optimization Methods and Operations Research
- Object-Oriented Programming
- Database and Knowledge Organization
- Computer Network Organization
- Probability Theory and Mathematical Statistics
- Physics (Selected Topics)
- Computational Process Organization
- Operating Systems
- Fundamentals of Artificial Intelligence
- Computer Architecture
- Information Systems Modeling
- Computer-Aided Design and Modeling Technologies
- Decision Theory
- Systems Analysis
- Data Analytics and Big Data
- Methodologies of Information and Software Systems Design
- Software and Data Security
- Data Mining
- High-Performance Computing Technologies
- Methods and Tools of Information Systems and Technology Intellectualization

Elective Courses:

Students can choose elective courses from the European School of Business elective catalog or other higher education institutions.

Practical Training:

Military Department available at leading military universities



Developers of the educational program



EUROPEAN SCHOOL
OF BUSINESS



Zoya Oleksandrivna Sherman

Program Director, Ph.D. in Physics and Mathematics, Associate Professor, Department of Fundamental and Medical-Preventive Disciplines at the International European University



Oleksandr Vasylovych Nesterenko

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Ph.D. in Technical Sciences, Associate Professor, Department of Information Technology, International European University



Volodymyr Volodymyrovych Fedorov

Ph.D. in Physics and Mathematics, Associate Professor, Department of Information Technology, International European University

About the Degree

BACHELOR

Upon completion of the educational program “Software Engineering of Computer Systems,” you will obtain:

- Higher education level – first (Bachelor’s)
- Degree – Bachelor
- Educational qualification – specialist in software development and testing
- Bachelor’s degree diploma

EDUCATIONAL QUALIFICATION

A specialist in modeling, designing, and developing tools for information systems and technologies, with skills to create high-quality IT products for various fields.

**SOFTWARE ENGINEERING OF COMPUTER SYSTEMS
AT THE EUROPEAN BUSINESS SCHOOL IS THE KEY TO SUCCESSFUL
AND PROFITABLE PROFESSIONAL GROWTH!**



How will you study?

- A new academic building at 1V Magnitogorska Street on the left bank of the Dnipro River;
- Student space “Space” for self-study in the afternoon;
- Computer labs;
- Robotics design lab “Embedded System”;
- New-generation language lab based on HiClass;
- Data center – a room with servers;
- All 15 classrooms are equipped with multimedia technology, Wi-Fi access points, and HDMI cables;
- All courses have internet-adapted education



Features of the Educational Process Organization

The university places great emphasis on improving educational activities, including:

- Development of new educational modules and courses;
- Implementation of innovative educational technologies and modern teaching methods (workshops, seminars on critical thinking development technologies, brainstorming sessions, dialogue-based learning technologies, project-based learning, business games, and simulations);
- Introduction of discussion seminars, presentations, and discussions involving international companies and organizations operating in Ukraine and abroad.

Educational activities are carried out in accordance with EU educational standards. Each course in the curriculum is provided with a syllabus, a working program, and a complete set of teaching materials.

Programs for practical training and internship syllabi have been developed for students' hands-on experience. Students are fully provided with educational materials for every subject.

There are also methodological materials available for final attestation. Information support is provided through textbooks, educational resources, and electronic materials. The university library houses numerous domestic and international professional periodicals relevant to various fields of study.

Students have access to databases of scientific periodicals in English. The theoretical content of the subject area includes mandatory and elective courses from both general and professional training cycles.

All programs incorporate interactive, blended, and problem-based lectures, as well as case study methods. Experienced professors from abroad are also involved in teaching. The university promotes student-centered learning, self-directed learning, problem-based learning, and learning through practical experience.





Collaboration

- Kharkiv National University of Radio Electronics
- GlobalLogic – an international IT company
- State Enterprise “Ukrainian Scientific Center for Information Technology Development”



GlobalLogic



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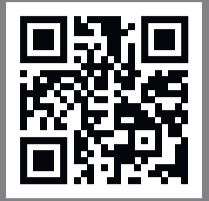


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