SOFTWARE ENGINEERING OF MULTIMEDIA AND SMART SYSTEMS

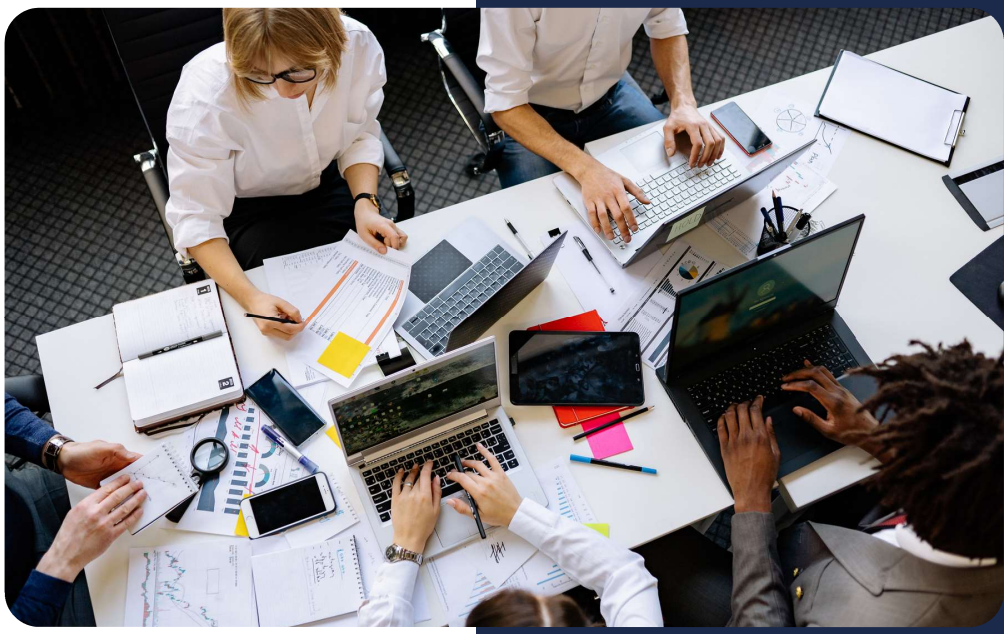
Educational Program

Faculty of Software Systems and Applied Mathematics | Igor Sikorsky Kyiv Polytechnic Institute

If you aspire to become an IT professional, develop innovative software, and work with cutting-edge technologies — this study program is for you!

- It will equip you with deep, up-to-date knowledge and open career opportunities in various areas of the IT industry.

- Our graduates are professionals capable of developing software solutions for any industry. The knowledge and skills gained during the program will allow you to start a successful career in the IT field — one of the most in-demand and innovative sectors worldwide.



WHAT WILL YOU STUDY?

Programming

You will master the most popular programming languages and use them to develop innovative software, including multimedia applications.

Mobile and Web Development

You will design modern mobile and web applications across different platforms, working with advanced web technologies and user interfaces.

Immersive and Multimedia Technologies

You will learn XR technologies (augmented, mixed, and virtual reality). You'll gain hands-on experience in building virtual environments and applications using state-of-the-art hardware.

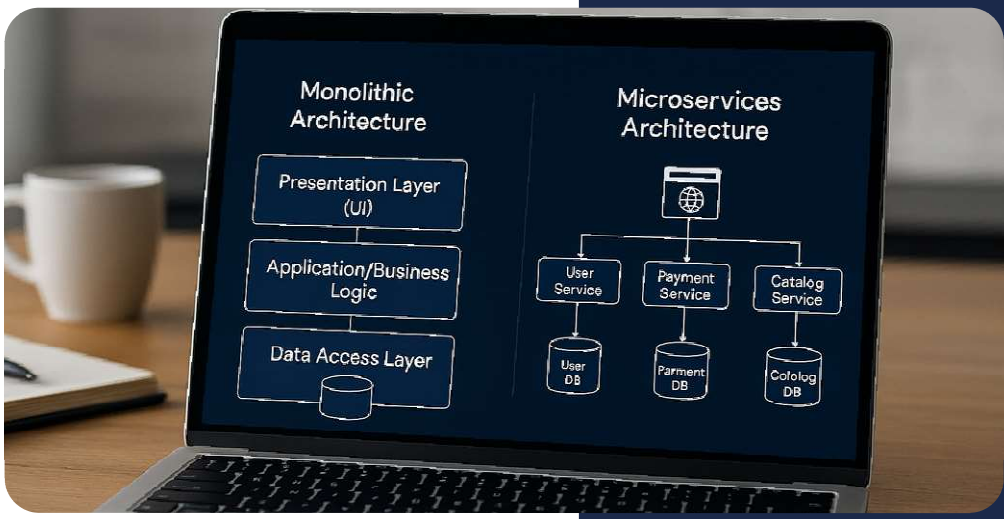
Artificial Intelligence and Machine Learning

You will learn how to apply machine learning algorithms to solve a wide range of real-world problems.

WHAT WILL YOU STUDY?

Teamwork and Project Management

You will take on different roles in IT teams — from developer and software architect to business analyst and project manager — and learn how to organize effective team collaboration



Software Architecture Design

You will explore cloud technologies and learn to develop scalable and high-performance applications.

WHICH CAREER PATHS WILL BE OPEN TO YOU?

Full Stack Developer

Design and develop both frontend and backend components of software products across a variety of platforms — from mobile apps to large-scale enterprise systems.

Backend Developer

Specialist responsible for server-side logic, data management, and system integration.

Frontend Developer

Focus on building user interfaces and creating visually appealing, intuitive web and mobile applications.

UI/UX Designer

Design user interfaces and enhance user experience through usability and design improvements.

WHICH CAREER PATHS WILL BE OPEN TO YOU?

Software Architect

Develop and manage software architecture to ensure systems are efficient, scalable, and maintainable.

DevOps Engineer

Automate software development and deployment processes, enabling continuous integration and delivery.

Project Manager

Lead development teams, coordinate workflows, and manage the software development lifecycle.

Business Analyst

Identify business needs, help define technical requirements, and optimize processes within IT organizations.

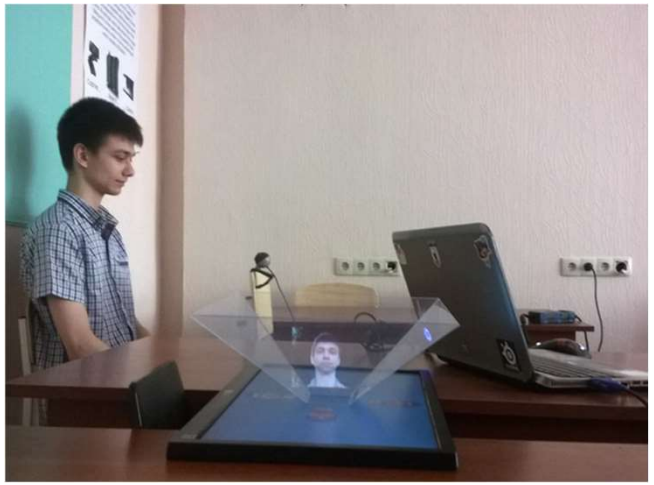
and much more...

SOME OF OUR STUDENT PROJECTS

- Using AI for object recognition in images and videos
- Techniques for creating visual effects in video games
- Software for colorizing black-and-white images
- Software for automated content monitoring on social media
- Cryptocurrency analysis using AI
- Fake news detection using AI
- Compilers for programming languages

and much more...

AI-powered software for medical diagnostics



3D Teleconferencing System

Haptic Interaction & 3D Visualization

DEPARTMENT

About our Team

Our team consists of **experienced professionals** with academic degrees who publish in international scientific journals, actively participate in **international research projects**, and regularly complete **internships abroad**.
Faculty members are actively engaged in **international research** and collaborative projects. Many of them also work in **leading IT companies** like EPAM Systems, ensuring **a strong practical focus** and alignment with the current needs of the global IT industry.

The department collaborates with **top European universities**, including Sorbonne University, ENSTA Paris, Carinthia University of Applied Sciences, Dublin City University, Czech Technical University in Prague, Slovak University of Technology in Bratislava, and others.

CONTACTS

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