WSB MERITO UNIVERSITY WROCLAW

Information Technology (Engineer's degree)

BACHELOR'S DEGREE - PROGRAM

Form: Full-time

Study form: Traditional (on-site)

Features: Engineer's degree • From October • English • 7 semesters

City: Wrocław

What will you learn?

- You will learn about the **architecture of cloud computing** and gain the skills to design, implement, and manage IT solutions in the cloud using platforms such as AWS, Azure, or Google Cloud
- You will learn **low-level programming and code optimization for processors**, which will enable you to create efficient hardware solutions and embedded systems
- You will learn the **principles of designing, configuring, and securing computer networks and IT systems**, preparing you to work in the field of cybersecurity
- You will gain **skills in designing and programming computer games** using engines such as Unity and Unreal Engine, and learn the principles of creating immersive player experiences
- You will learn to **test and optimize software**, as well as automate application development processes, increasing your efficiency as a programmer
- You will learn about the **latest trends and technologies in IT**, which will prepare you for dynamic professional growth in the technology industry

Work opportunities

- Become a **specialist in network, systems, and IT security engineering**, ensuring the stability and protection of network infrastructure in corporations or public institutions
- Work as a **cloud application developer**, creating modern solutions based on serverless technologies, microservices, and containerization
- Build your career as a **game developer**, creating immersive player experiences and working on projects for leading development studios
- Work as an **IT consultant or technology solutions designer**, advising companies on implementing modern technologies and optimizing processes
- Run your own **technology company**, offering innovative services in programming, data analysis, game design, or cloud solutions

Specialised laboratories

The university is equipped with numerous laboratories and studios dedicated to the computer science program, including:

- **Apple iMac Studio**
- **Internet of Things (IoT) Laboratory**
- **LTE and 5G Lab powered by Nokia**
- **Stormshield Cybersecurity Laboratory**

Dane zamieszczone w niniejszej karcie kierunku mają charakter wyłącznie informacyjny. Dane te nie stanowią oferty zawarcia umo wy w rozumieniu art. 66 i nast. kodeksu cywilnego. Zgodnie z art. 160 ust. 3 ustawy z dnia 27 lipca 2005 roku Prawo o szkolnictwie wyższym, umowa między Uniwersytetem WSM Merito we Wrocławiu a studentem zawierana jest w formie pisemnej.

- **SAP Next Gen – SAP S/4HANA Laboratory**
- **Cisco Networking Laboratory**
- **Giant Lazer XR LAB**

Authorised Training Centre

Thanks to participation in the nationally unique **Apple Authorised Training Centre (AATC)** program, the courses offered at our university are based on training materials authorized by Apple.

The range of topics covers both the **Swift programming language** and the official **set of tools and libraries for iOS and iPadOS platforms**. The courses are conducted by Apple-certified trainers from k7.

Additional certificates

During your studies, you will have the opportunity to obtain additional certificates that are highly valued on the job market, including:

- **SAP S/4HANA**
- **Cisco CCNA**
- **Google Cloud Machine Learning**
- **Apple**
- **Microsoft**
- **Python**

Study program

Practical studies

We teach in a way that best prepares you for the real-world challenges you will encounter in your professional career.

- **Group projects** – real business problems.
- **Simulations** – decision-making in market conditions.
- **Internships and placements** – experience in companies.
- **Lectures with practitioners** – industry experts.
- **Modern tools** – up-to-date technologies.

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- **Case studies** – analysis of real-life situations.

Selected major-specific courses

- Basics of computer networks
- Server operating systems
- Algorithms and data structures
- Database systems
- Security in computer systems and networks
- Introduction to VR/AR/MR technology
- Fundamentals of Linux system administration
- Object-oriented programming
- Web applications programming
- Mobile applications programming
- Client systems
- Content management systems CMS
- Business intelligence systems
- Programming Internet of Things IoT devices
- IT project management

Selected specialization courses

- Creation and administration of cloud-based applications
- 2D graphics
- 3D graphics
- Practical issues in graphic design
- Programming and architecture of cloud-based applications
- Services and development platforms for cloud-based applications

Foreign language study

All classes in this program are conducted **in English**.

Additionally, you will take part in courses designed to deepen your knowledge of professional English

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used in the industry.

Internships and practical training

Student internships are an important part of the degree program. Students in bachelor’s and long-cycle master’s programs complete 960 hours of internship (24 weeks), gaining professional experience. If you work in a profession related to your field of study, you may have your internship credited based on your employment. During your studies, you also have the chance to take part in a paid internship. Internship programs are prepared by employers we cooperate with, who tailor the requirements to specific positions, making it easier to take the first steps in your career.

Study completion requirements

You create a diploma project that addresses a practical or theoretical problem related to your field of study. By researching the literature and conducting your own analyses, you work on an original proposal to solve the problem. Everything you learn during your studies enables you to create a professional project based on real data and actions. To earn your bachelor's degree, you must defend this project before a committee. You are the one who sets the direction of your project!

Program partners

How to become a WSB Merito University student

You can enroll in a **first degree (e.g. Bachelor’s or Engineer’s) program** if you

Take the first step – register now

Applicants are admitted on a first-come first-served basis. If you are to complete your secondary education this year, or you are

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have successfully completed your secondary education and have a secondary school-leaving certificate.
Learn more

studying for your first degree but have not yet earned it, **you can secure a place with us by signing up online.** Your educational service contract can be drawn up later as you have collected all of the required documents.
Create an account or log in

Specializations in the Information Technology (Engineer's degree) program

Software Development

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People's statements

Fred, a student at WSB Merito University in Wrocław, shares how studying IT in the university's state-of-the-art computer labs and modern facilities enhances both his learning experience and overall enjoyment of student life. Emannuel, an international student from Mexico, echoes Fred's sentiments and highlights Wrocław's vibrant, multicultural atmosphere as a key advantage for students at WSB Merito University.

Fred, a student at WSB Merito University in Wrocław

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