

# Information Technology

MASTER'S DEGREE - PROGRAM

**Form:** Full-time

**Study form:** Traditional (on-site)

**Features:** Master's degree • From October • English • 4 semesters

**City:** Gdańsk



## What will you learn?

- **You will learn to design and test ICT networks**, enabling you to ensure their performance, security, and user requirements compliance.
- **You will master advanced web application programming techniques** such as using .NET, Java, and Angular, giving you greater opportunities in IT.
- **You will perfect the creation of efficient and secure object-oriented code**, including code quality analysis and refactoring, preparing you for developer teamwork.
- **You will gain skills in managing IT systems and networks**, allowing you to optimize IT infrastructure in companies and institutions.
- **You will learn to create database applications and program in Python**, enabling effective data management and designing business solutions.
- **You will learn about IT system security**, including cybercrime and cryptography, to help protect sensitive data.

## Work opportunities

- **Work as a web application developer**, designing modern websites and apps using technologies like .NET, Angular, and Java.
- **Become an IT security specialist**, responsible for data protection, securing telecom networks, and eliminating cyber threats.
- **Get hired as a network administrator**, managing IT infrastructure, optimizing processes, and ensuring system performance.
- **Be an IT systems designer**, creating business-tailored solutions from requirements analysis to implementation and testing.
- **Work as a data analyst**, using programming tools like Python for information processing and producing decision-supporting reports.
- **Grow as a mobile applications engineer**, designing efficient, intuitive, and secure solutions for smartphones and mobile devices.

## Study program

### Practical studies

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

- **Group projects** – real business problems.



- **Simulations** – decisions in market conditions.
- **Internships and placements** – company experience.
- **Lectures with practitioners** – industry experts.
- **Modern tools** – up-to-date technologies.
- **Case studies** – analysis of real cases.

## **Selected major-specific courses**

- Web application front-end
- Creating web application back-end
- Web application development with .NET
- Web application programming in Java
- RIA, Case study: Angular
- Web development technologies
- Programming with elements of algorithms
- UX and user interface design
- Software quality assurance techniques
- Development of web and database applications
- Object-oriented application programming and design

## **Selected specialization courses**

- Creating back-end for web applications
- Programming web applications using the .NET platform, vlab
- Programming web applications in Java
- RIA, Angular
- Website creation technologies
- Creating PWA applications

## **Foreign language study**

- During your studies, you take one major course in English. In the Management program, this is



Leadership.

- In the 4th semester, you are required to complete a course in English, tailored to your chosen specialization.
- Additionally, you can choose two more courses in this language – one lecture and one exercise.
- This is a great opportunity to develop language skills and gain knowledge in an international context.

## Internships and practical training

Internships are an important part of the study program. Master's students complete **480 hours of internships throughout their studies**, gaining valuable work experience. If you are employed in a profession relevant to your field of study, you may have your internship credited based on your employment. During your studies, you also have the opportunity for a paid internship. Internship programs are prepared by our partner employers, adapting requirements to specific positions, which makes starting your professional career easier.

## This is a program for people

- who want to develop programming skills and create modern applications,
- who are interested in cybersecurity and data protection,
- who plan a career in IT – from programmer to network and systems specialist.

### How to become a WSB Merito University student

To be eligible for a **second degree (Master's) program**, you must have completed a prior higher education program concluded with the award of a first degree (Bachelor's or equivalent).

[Learn more](#)

### Register online

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

Computer Programming

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