

FROM DEVELOPING SOFTWARE FOR ON-BOARD COMPUTERS TO SOFTWARE FOR LARGE IT COMPANIES!

Department «Software engineering and intelligent management technologies» (formerly the department «Automated control systems», «Software engineering and management information technology») successfully has been providing educational services for 60 years — in 2024 the department celebrates its anniversary.

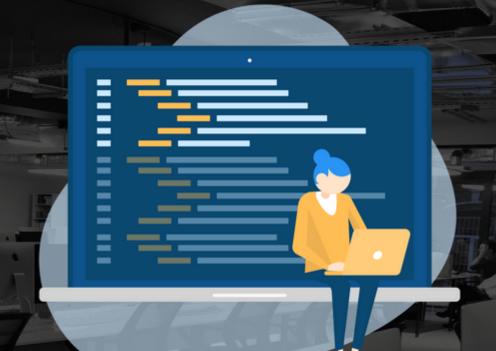
The main goal of the department has always been fundamental training of specialists in the field of information technology. This approach was founded in the 60s and 70s of the last century and fully justified itself in the following years. Many of the department's graduates have become well-known scientists, university professors, heads of large enterprises and organizations, and have achieved significant success in business.





# Study Program (121) Software Engineering

Specialization in software design, development, construction and testing, including intelligent systems



#### **CAREER PATHS**

Software Engineer | Software Testing | Software QA Engineer | Software Architect

System Architect | Business Analyst | Software Systems Analyst | IT Project Manager

Artificial Intelligence Engineer | Machine Learning Engineer | Cloud Engineer

# Study Program (122) Computer Science and Intelligent Systems

Specialization in software development of intelligent systems, artificial intelligence technologies, data processing and analysis



#### **CAREER PATHS**

Software Engineer | Data Analyst | Data Scientist | Artificial Intelligence Engineer | Machine Learning Engineer | Business Analyst | IT Systems Analyst | IT Project Manager | Software Architect | Al & ML Researcher | Data Engineer



#### **Certificate of Accreditation**

Upon application by

National Technical University «Kharkiv Polytechnic Institute»

the Commission of the Central Evaluation and Accreditation Agency Hannover (ZEvA) has accredited the following Bachelor's programme:

**Software Engineering** 

The accreditation is valid until 30 September 2030.

Hanover, 18 January 2024

Henning Schäfer Managing Director

Member of:

enga.



Registered in:

eqar///

IP-0571-1/2

**Bachelor's degree programs** 121 «Software Engineering» and 122 «Computer Science and Intelligent Systems» successfully passed the procedure international accreditation from the German Central Agency for **Evaluation** and **Accreditation (ZEvA) and** received the corresponding certificates valid until 2030!



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Hanover, 18 January 2024

M. White

Managing Director

Member of:

enga.



Registered in:



IP-0571-1/1



# DEPARTMENT OF SOFTWARE ENGINEERING AND MANAGEMENT INTELLIGENT

**▼ Innovation Campus**

**TECHNOLOGIES** 

- **Applied Artificial Intelligence**
- Artificial Intelligence & Cybersecurity
- Software Development & Startup



# BACHELOR'S DEGREE LEARNING TRACKS



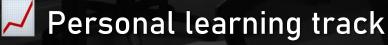
#### Кафедра програмної інженерії та інтелектуальних технологій управління

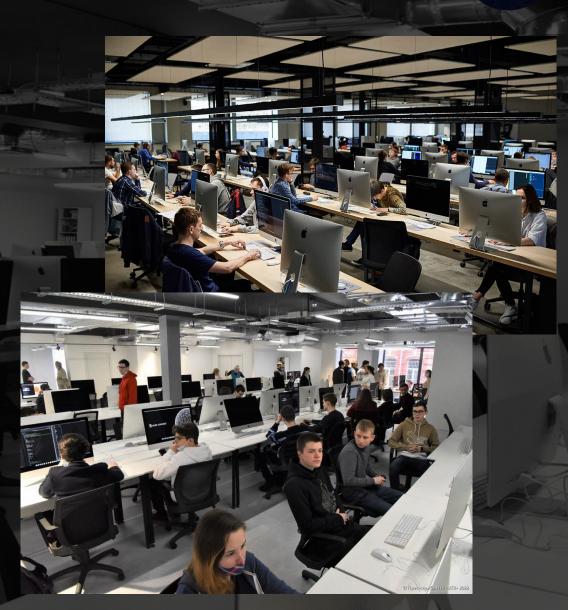
# NiTY

#### **INNOVATION CAMPUS**

- Databases and data warehouses
- Fullstack development of web systems
- Distributed databases
- Leadership and strategic management in IT
- Project workshop
- Formation and development of IT project teams
  - Peer-to-peer
    - Gamification



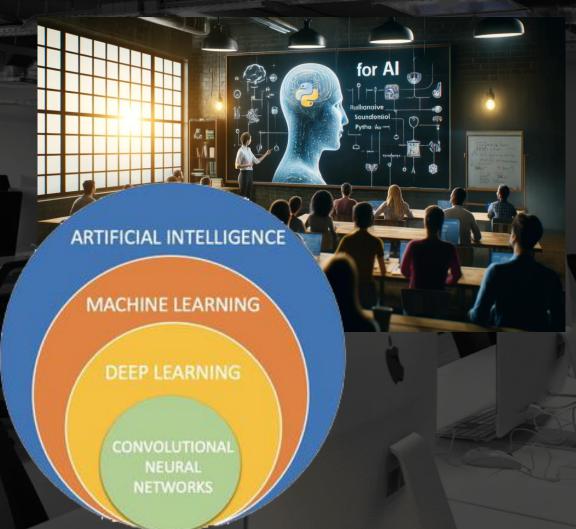




# NiTY

#### APPLIED ARTIFICIAL INTELLIGENCE

- Python basics for Data Science
- Artificial Intelligence with Python
- Applied text processing and Text Mining in Python
- Image Processing and Computer Vision in Python
- Applied tasks of deep learning in Python
- Developing intelligent chatbots with Python



## **ARTIFICIAL INTELLIGENCE & CYBERSECURITY**

- Python basics for Al
- Ethical hacking
- Cybersecurity risk management
- Fundamentals of AI and cybersecurity
- Protecting and attacking data with
- Network security and Al

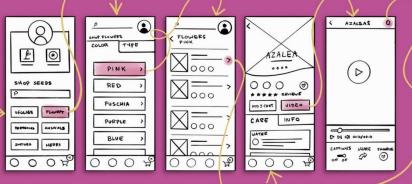


### SOFTWARE DEVELOPMENT & STARTUP

- Fundamentals of entrepreneurship
- Business modeling
- Fundamentals of prototyping
- Business planning for a startup
- Internet marketing
- Business analytics of a startup









# DEPARTMENT OF SOFTWARE ENGINEERING AND

# MANAGEMENT INTELLIGENT TECHNOLOGIES

- Business Intelligence Technologies
- Data Mining Tools
- Machine Learning Methods
- Innovative Solutions Design using Al
- Decentralized Systems & Blockchain
- Cloud Computing & DevOps

Department of Software Engineering and Management Intelligent Technologies

NiTY





## IT EDUCATION OF THE FUTURE



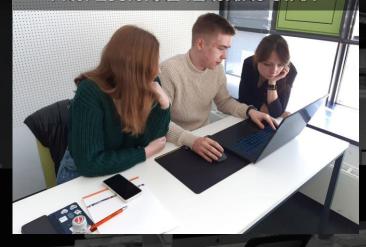


## **OPPORTUNITIES FOR STUDENTS**

#### HIGH-QUALITY DISTANCE LEARNING WORLDWIDE!



PROFESSIONAL TEACHING STAFF



PROJECT-BASED LEARNING



EXPERIENCED ENGLISH TEACHERS



INTERNATIONAL AND JOINT PROGRAMS



LEARNING AND PRACTICE COMBINATION



## **OUR ACADEMIC IMPACT**

#### **RESEARCH FIELDS**

- INTELLIGENT DATA MONITORING
- **AGENT-DRIVEN DEVELOPMENT**
- TEXTUAL DATA PROCESSING
- **SOFTWARE PROCESS IMPROVEMENT**
- **COMPLEX SYSTEMS ANALYSIS**
- DYNAMIC SYSTEMS MANAGEMENT
- **PARALLEL COMPUTING**
- **INTEGRATED SOFTWARE TOOLS**





25 Teachers with B2/C1 English 6 Full Professors 25 Associate Professors 7 Instructors



STUDENT RESEARCH PROJECT GROUPS



INTERNATIONAL INTERNSHIPS OF STUDENTS AND TEACHERS







## LET'S STAY IN TOUCH!



#### **LEARN MORE ON YOUTUBE!**

SOFTWARE ENGINEERING AND MANAGEMENT INTELLIGENT TECHNOLOGIES



Ukraine, 61002, Kharkiv Kyrpychova st., 2, Building U2 7<sup>th</sup> Floor, Room 705

E-mail: piitu@khpi.edu.ua



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