

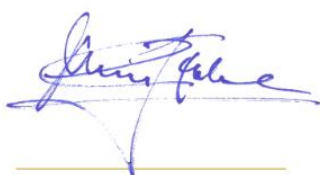
CERTIFICATE

Nikita Trufanov

has participated in the
Wildau-Kharkiv IT Bridge
in the DAAD programme
"Digital Ukraine: Ensuring academic success in times of crisis (2022)"
in winter semester 2022
and achieved the following grade:
(details on the rear side)

Computer architecture (Bachelor)

100 %



Prof. Dr. Marcus Frohme



Prof. Dr. Igor Grebennik



Prof. Dr. Alina Nechyporenko

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About the Wildau-Kharkiv-IT-Bridge (WKITB)

Wildau-Kharkiv-IT-Bridge (WKITB) is a project in the DAAD programme "Ukraine digital: Ensuring academic success in times of crisis (2022)". WKITB aims to support Ukrainian lecturers and students by providing a digital teaching and learning platform. It brings together 60 lecturers from eight universities in Kharkiv in the field of IT with thousands of students from all over Ukraine.

Computer architecture

Credit Points: 5 ECTS

Study program(s): 123 Computer Engineering

The purpose of the educational discipline "Computer Architecture" is to acquire knowledge about the organization of various types of architectures, module interrelationships, knowledge about PC architecture, functionality of PC modules, management of modules at a low level (port levels); Topics covered: 1. General concept of computer architecture. 2. Organization of an IBM/PC type computer. 3. I80*86 microprocessors. Principles of construction, architecture. 4. PC system memory. 5. System resources. 6. DMA controller. 7. PIC controller. 8. System timer. 9. Keyboard subsystem. 10. External memory subsystem. 11. Video system. 12. Organization of input/output.

Professor Anatolii Povorozniuk
National Technical University «Kharkiv Polytechnic Institute»

*The lecturer is responsible for grading and module content.
This certificate is valid without signature the lecturer.*