



Państwowa Akademia
Nauk Stosowanych
w Krośnie

Course catalogue for Erasmus students

Computer Science

Academic year 2024/2025

Winter semester 2024/2025

| Course name in English (in Polish) | Year of study, semester of study in the cycle | Number of hours, form of classes | ECTS | Form of credit | Language of the course |
|---|--|-------------------------------------|------|----------------|------------------------|
| Basics of programming (Podstawy programowania) | I, 1 | 30 lecture 30 laboratories | 5 | exam | PL/ENG |
| Low Level Programming (Programowanie niskopoziomowe) | I, 1 | 15 lecture 15 laboratories | 3 | credit | PL/ENG |
| Utility programs (Programy użytkowe) | I, 1 | 15 laboratories | 1 | credit | PL/ENG |
| Computer Architecture (Architektura komputerów) | I, 3 | 15 lecture 15 laboratories | 3 | credit | PL/ENG |
| Databases (Bazy danych) | I, 3 | 15 lecture 30 laboratories | 4 | exam | PL/ENG |
| Programming in C# Language (Programowanie w języku C#) | I, 3 | 15 lecture 30 laboratories | 4 | exam | PL/ENG |
| Computer Networks (Sieci komputerowe) | I, 3 | 15 lecture 30 laboratories | 4 | exam | PL/ENG |
| Programming in Java (Programowanie w języku Java) | I, 3 | 15 lecture 30 laboratories | 4 | exam | PL/ENG |
| Computer graphic (Grafika komputerowa) | I, 3 | 15 lecture 30 laboratories | 4 | credit | PL/ENG |
| Software engineering (Inżynieria oprogramowania) | I, 5 | 15 lecture 15 project | 3 | credit | PL/ENG |
| Embedded systems (Systemy wbudowane) | I, 5 | 15 lecture 30 laboratories | 4 | exam | PL/ENG |
| Programming mobile devices (Programowanie urządzeń mobilnych) | I, 5 | 30 lecture 30 project | 4 | exam | PL/ENG |

Spring semester 2024/2025

| Course name in English (in Polish) | Year of study, semester of study in the cycle | Number of hours, form of classes | ECTS | Form of credit | Language of the course |
|---|--|-------------------------------------|------|----------------|------------------------|
| Statistical and computational methods (Metody statystyczne i obliczeniowe) | I, 2 | 15 lecture 15 laboratories | 3 | credit | PL/ENG |
| Algorithms and data structures (Algorytmy i struktury danych) | I, 2 | 15 lecture 30 laboratories | 4 | exam | PL/ENG |
| Operations research (Badania operacyjne) | I, 2 | 15 lecture 15 laboratories | 3 | credit | PL/ENG |
| Object oriented programming (Programowanie obiektowe) | I, 2 | 30 lecture 30 laboratories | 5 | exam | PL/ENG |

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|--|-------|-------------------------------|---|--------|--------|
| Operating Systems (Systemy operacyjne) | I, 2 | 15 lecture 30 laboratories | 4 | exam | PL/ENG |
| Database management systems (Systemy zarządzania bazą danych) | II, 4 | 15 lecture 30 laboratories | 4 | credit | PL/ENG |
| Information systems security (Bezpieczeństwo infromacji) | II, 4 | 30 lecture 30 laboratories | 4 | exam | PL/ENG |
| Artificial Intelligence (Sztuczna inteligencja) | II, 4 | 15 lecture 15 laboratories | 2 | credit | PL/ENG |

Optional courses

Courses are implemented in the winter semester and spring semester, provided a minimum of 5 students participate.

| Course name in English (in Polish) | Year of study, semester of study in the cycle | Number of hours, form of classes | ECTS | Form of credit | Language of the subject |
|---|--|---|-------------|-----------------------|--------------------------------|
| Polish for Foreigners | For Erasmus students only | 15 class | 2 | credit | ENG |
| Introduction to Poland | For Erasmus students only | 15 class | 2 | credit | ENG |
| Lean management | For Erasmus students only | 15 class | 2 | credit | ENG |
| Work improvements with AI solutions | For Erasmus students only | 15 class | 2 | credit | ENG |