



Państwowa Akademia
Nauk Stosowanych
w Krośnie

Course catalogue for Erasmus students

Computer Science

Academic year 2025/2026

Winter semester 2025/2026

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	4	exam	PL / ENG
Algorithms and data structures (Algorytmy i struktury danych)	I, 1	15 lecture 30 laboratories	4	exam	PL / ENG
Utility programs (Programy użytkowe)	I, 1	15 laboratories	1	credit	PL / ENG
Computer graphic (Grafika komputerowa)	I, 1	15 lecture 30 laboratories	4	credit	PL / ENG
Databases (Bazy danych)	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
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 2025/2026

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
Low Level Programming (Programowanie niskopoziomowe)	I, 2	15 lecture 15 laboratories	2	credit	PL / ENG
Computer Architecture (Architektura komputerów)	I, 2	15 lecture 15 laboratories	2	credit	PL / ENG
Operations research (Badania operacyjne)	I, 2	15 lecture 15 laboratories	3	credit	PL / ENG
Programming in C# Language (Programowanie w języku C#)	I, 2	15 lecture 30 laboratories	4	credit	PL / ENG
Computer Networks (Sieci komputerowe)	I, 2	15 lecture 30 laboratories	4	credit	PL / ENG
Operating Systems (Systemy operacyjne)	I, 2	15 lecture 30 laboratories	4	credit	PL / ENG

Database management systems (Systemy zarządzania bazą danych)	II, 4	15 lecture 30 laboratories	4	credit	PL / ENG
Information systems security (Bezpieczeństwo informacji)	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 course
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