



Państwowa Akademia  
Nauk Stosowanych  
w Krośnie

# Course catalogue for Erasmus students

## Computer Science

Academic year 2026/2027

## Winter semester 2026/2027

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
<b>Basics of programming</b> (Podstawy programowania)	I, 1	30 lecture 30 laboratories	4	exam	PL / ENG
<b>Algorithms and data structures</b> (Algorytmy i struktury danych )	I, 1	15 lecture 30 laboratories	4	exam	PL / ENG
<b>Utility programs</b> (Programy użytkowe )	I, 1	15 laboratories	1	credit	PL / ENG
<b>Computer graphic</b> (Grafika komputerowa)	I, 1	15 lecture 30 laboratories	4	credit	PL / ENG
<b>Databases</b> (Bazy danych)	I, 3	15 lecture 30 laboratories	4	exam	PL / ENG
<b>Programming in Java</b> (Programowanie w języku Java )	I, 3	15 lecture 30 laboratories	4	exam	PL / ENG
<b>Software engineering</b> (Inżynieria oprogramowania)	I, 5	15 lecture 15 project	3	credit	PL / ENG
<b>Embedded systems</b> (Systemy wbudowane)	I, 5	15 lecture 30 laboratories	4	exam	PL / ENG
<b>Programming mobile devices</b> (Programowanie urządzeń mobilnych)	I, 5	30 lecture 30 project	4	exam	PL / ENG

## Spring semester 2026/2027

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
<b>Statistical and computational methods</b> ( Metody statystyczne i obliczeniowe)	I, 2	15 lecture 15 laboratories	3	credit	PL / ENG
<b>Low Level Programming</b> (Programowanie niskopoziomowe)	I, 2	15 lecture 15 laboratories	2	credit	PL / ENG
<b>Computer Architecture</b> ( Architektura komputerów)	I, 2	15 lecture 15 laboratories	2	credit	PL / ENG
<b>Operations research</b> (Badania operacyjne)	I, 2	15 lecture 15 laboratories	3	credit	PL / ENG
<b>Programming in C# Language</b> (Programowanie w języku C# )	I, 2	15 lecture 30 laboratories	4	credit	PL / ENG
<b>Computer Networks</b> (Sieci komputerowe )	I, 2	15 lecture 30 laboratories	4	credit	PL / ENG
<b>Operating Systems</b> (Systemy operacyjne )	I, 2	15 lecture 30 laboratories	4	credit	PL / ENG

<b>Database management systems</b> (Systemy zarządzania bazą danych)	II, 4	15 lecture 30 laboratories	4	credit	PL / ENG
<b>Information systems security</b> (Bezpieczeństwo informacji)	II, 4	30 lecture 30 laboratories	4	exam	PL / ENG
<b>Artificial Intelligence</b> (Sztuczna inteligencja)	II, 4	30 lecture 30 laboratories	4	credit	PL / ENG

## Optional courses

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

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