

Courses available in English

@ Computer Science / Artificial Intelligence

Poznan University of Technology



Artificial Intelligence, B.Sc.

ECTS cards: <https://www.put.poznan.pl/pl/karty-ects/20202021/sztuczna-inteligencja---artificial-intelligence/stacjonarne/studia-pierwszego-stopnia>

* the courses marked as *Elective* with the same number might be run as either/or options depending on the number of students who selected each of them

Summer / Spring:

Course	ECTS
Linear Algebra	5
Introduction to probability	5
Calculus II	5
Computer architecture with low-level programming	3
Algorithms and data structures	6
Operating systems with concurrency programming	5
Software engineering	4
Computer networks	4
Machine learning	5
Elements of convex optimization (Elective 3)	3
Optimization methods for data analysis (Elective 3)	3
Data mining	5
Data visualization (Elective 4)	3
Graphics (Elective 4)	3
Robotics I	4
Natural language processing	4
Decision analysis (Elective 8)	5
Decision support (Elective 8)	5
Big data and distributed processing (Elective 9)	5
Theory and practice of processing big data (Elective 9)	5
Reinforcement learning and multi-agent systems (Elective 10)	4
Computational intelligence (Elective 10)	4
Robotics II	4
Problem classes II: machine learning (Elective 11)	2
Problem classes II: artificial intelligence (Elective 11)	2
Ethics and research	2
Methodology of writing scientific thesis	0
English	1-2

Winter / Autumn:

Course	ECTS
Introduction to mathematics for computer science	5
Calculus I	5
Introduction to Artificial Intelligence	3
Discrete mathematics	5
Introduction to programming	5
Introduction to computing	3
Artificial life with cognitive sciences	3
Statistics	5
Information theory (Elective 1)	3

Contact:

Mirosław Ochodek, Faculty Coordinator, Faculty of Computing and Telecommunications, PUT

Email: Mirosław.Ochodek@cs.put.poznan.pl

Tel.: (+48) (61) 665 29 44

Office: Room 2.7.8 Technical Library, Institute of Computing Science, Piotrowo 2, 60-965 Poznan, Poland

Data compression methods (Elective 1)	3
Object programming	4
Database systems	5
Artificial intelligence	5
Combinatorial optimization (Elective 2)	5
Discrete optimization (Elective 2)	5
Career resources	2
Deep learning	5
Internet applications	5
Operational research (Elective 5)	5
Industrial engineering (Elective 5)	5
Information retrieval	3
Innovative entrepreneurship	4
Problem classes I: data analysis (Elective 6)	3
Problem classes I: artificial intelligence (Elective 6)	3
Computer vision (Elective 7)	5
Signal processing (Elective 7)	5
English	1

Software Engineering M.Sc.

ECTS cards: <https://www.put.poznan.pl/pl/karty-ects/20202021/informatyka/stacjonarne/studia-drugiego-stopnia>

Summer / Spring:

Course	ECTS
Software Design and Modeling	4
Project Management	4
Software Development Studio 1	6
Technologies of Software Development	6
Database Performance	5
Communication in English / Polish	2
New Trends in Multimedia Technologies	3
Diploma Seminar	2
IT in Administration	3
Frontend Development	5
Concept and Tools of Modern Enterprise Management	3
Interpersonal Communication / Intercultural Communication	2

Winter / Autumn:

Course	ECTS
Software Architecture and Verification	6
Software Development Studio 2	6
Software Evolution and Maintenance	6
Pre-diploma Seminar	3
Quality Management & Experimental Software Engineering	5
Scientific & Technical Writing	2

Computer Science, B.Sc.

ECTS cards: <https://www.put.poznan.pl/pl/karty-ects/20202021/informatyka/stacjonarne/studia-pierwszego-stopnia>

Summer / Spring:

Course	ECTS
Computer Graphics and Visualization	4
Advanced Internet Applications	4

Contact:

Mirosław Ochodek, Faculty Coordinator, Faculty of Computing and Telecommunications, PUT

Email: Mirosław.Ochodek@cs.put.poznan.pl

Tel.: (+48) (61) 665 29 44

Office: Room 2.7.8 Technical Library, Institute of Computing Science, Piotrowo 2, 60-965 Poznań, Poland