

# Courses available in English 2020/2021

## Summer semester:

### Software Engineering M.Sc.

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

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

### Artificial Intelligence B.Sc.

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

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	3
Optimization methods for data analysis	3
Data mining	5
Data visualization	3
Graphics	3
Robotics I	4

## Winter semester:

### Software Engineering M.Sc.

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

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

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## Artificial Intelligence B.Sc.

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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	3
Data compression methods	3
Object programming	4
Database systems	5
Artificial intelligence	5
Combinatorial optimization	5
Discrete optimization	5

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