

Elective Courses in Academic Year 2022/2023

Year of study	Computer Science (BSc) – winter semester 2 year – 5 ECTS points (min. 35h) 3 year - 15 ECTS points (min.60h)	Kod przedmiotu	Link to UsosWeb	ECTS	Hours LI / W	Comments	Form of assessment
2	Introduction to R	1100-IR0ENG	1100-IR0ENG	2	14 / 0		Z
2	Introduction to Python	1100-PY0ENG	1100-PY0ENG	2	14 / 0		Z
2,3	Developing Games in Unity	1100-DG0ENG	1100-DG0ENG	3	28 / 0		Z
2,3	Spreadsheet Programming	1100-KA0ENG	1100-KA0ENG	3	28 / 0		Z
2,3	Design of Business Intelligence Tools	1100-DBIDLI-FIRM	1100-DBIDLI-FIRM	2	0 / 8		Z
3	Artificial Intelligence in Computer Games	1100-IGWEUI	1100-IGWEUI	4	0 / 28		Z
3	Laboratory of Digital Medical Images	1100-LMWELI	1100-LMWELI	3	28 / 14		Z
3	Programming Mobile Applications	1100-PA0ENG	1100-PA0ENG	3	28		Z
3	Security of Computer Systems	1100-BS0ENG	1100-BS0ENG	6	28 / 28		E
Year of study	Computer Science (BSc) - summer semester 2 year – 4 ECTS points (min. 28h) 3 year – 15 ECTS points (min. 60h)	Kod przedmiotu	Link to UsosWeb	ECTS	Hours LI / W	Comments	Form of assessment
2	Designing Interfaces	1100-IU0ENG	1100-IU0ENG	2	28 / 0		Z
2,3	Artistic Integration Technologies	1100-AIWELI	1100-AIWELI	2	28 / 0		Z
2,3	Foundations of Encryption Methods	1100-FE0ENG	1100-FE0ENG	4	28 / 0		Z
2,3	Introduction to BASH	1100-IBWELI	1100-IBWELI	2	16 / 0		Z
2	iOS Programming, 1	1100-PP1ENG	1100-PP1ENG	4	28 / 0	2 x 8 students	Z
2	Microcontrollers Programming	1100-MC0ENG	1100-MC0ENG	4	28 / 0	2 x 8 students	Z
3	Numerical Methods	1100-MN0ENG	1100-MN0ENG	5	28 / 28		E
3	Introduction to Java	1100-JJ0ENG	1100-JJ0ENG	4	28 / 0		Z
3	Web Applications	1100-WA0ENG	1100-WA0ENG	5	28 / 12		Z
2	Programming Windows GUI Applications	1100-GU0ENG	1100-GU0ENG	4	28 / 0		Z
3	Codes Correcting Errors	1100-CE0ENG	1100-CE0ENG	4	0 / 28		Z
3	Database Systems Administration	1100-AB0ENG	1100-AB0ENG	6	28 / 28		E