**Faculty of Applied Information Technology**

**UID-A-CS/2024-L**

**field of study:** INFORMATION TECHNOLOGY (ENG)
**level:** second-cycle studies
**professional title awarded to graduates:** magister
**education profile:** practical
**type of study:** full-time

UNIVERSITY of INFORMATION TECHNOLOGY and MANAGEMENT in Rzeszow, POLAND

**Students admitted in the academic year: 2024/2025**

| No. | Course title | Form of credit | Level | ECTS Credits | | | | Number of hours | | | | | | | I Year | | | | | | | | | | | | | | | II Year | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Including | | | Total | Including | | | | | | sem 1 | | | | | | | sem 2 | | | | | | | sem 3 | | | | | | | sem 4 | | | | | | |
| | | | | | DP | PP | DL | | L | S | W | Lab | P | eL | L | S | W | Lab | P | eL | ECTS | L | S | W | Lab | P | eL | ECTS | L | S | W | Lab | P | eL | ECTS | L | S | W | Lab | P | eL | ECTS |
| | All-University Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | English Language | GC, Ex | - | 8 | 6 | 0 | 0 | 120 | 0 | 0 | 0 | 120 | 0 | 0 | | | | 60 | | | 4 | | | | 60 | | | 4 | | | | | | | | | | | | | | | |
| 2 | Sociology | C | - | 1 | 1 | 0 | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 20 | | | | | | | | | | | | | 20 | 1 | | | | | | | | | | | | | | | |
| 3 | Research Methodology | GC, Ex | - | 3 | 2 | 0 | 0 | 38 | 0 | 0 | 0 | 16 | 22 | 0 | | | | 16 | 22 | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Team Management | C | - | 1 | 1 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | | | | | | | | | 10 | | | | | 1 | | | | | | | | | | | | | | | |
| 5 | Health and Safety while Studying | C | - | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | | 4 | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | |
| | Major-Related Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Data Security in IT Systems | Ex, GC | 5 | 2 | 1 | 1 | 0 | 24 | 12 | 0 | 0 | 12 | 0 | 0 | | | | | | | | 12 | | | 12 | | | 2 | | | | | | | | | | | | | | | |
| 7 | Monographic Lecture | Ex | 4 | 2 | 2 | 0 | 0 | 24 | 24 | 0 | 0 | 0 | 0 | 0 | | | | | | | | 12 | | | | | | 1 | 12 | | | | | | 1 | | | | | | | | |
| 8 | Computational Methods in Science and Technology | Ex, GC | 4 | 3 | 2 | 1 | 0 | 32 | 14 | 0 | 0 | 18 | 0 | 0 | 14 | | | 18 | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Scripting Language | GC | 4 | 4 | 2 | 4 | 0 | 53 | 0 | 0 | 0 | 18 | 35 | 0 | | | | 18 | 35 | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Introduction to Cloud Technologies | GC | 4 | 1 | 1 | 1 | 0 | 18 | 0 | 0 | 0 | 18 | 0 | 0 | | | | | | | | | | | 18 | | | 1 | | | | | | | | | | | | | | | |
| 11 | Team Project | GC | 3 | 5 | 2 | 5 | 0 | 45 | 0 | 0 | 0 | 0 | 45 | 0 | | | | | | | | | | | | 45 | | 5 | | | | | | | | | | | | | | | |
| 12 | Elective Course 1 | Ex, GC | | 2 | 1 | 1 | 0 | 28 | 10 | 0 | 0 | 18 | 0 | 0 | | | | | | | | 10 | | | 18 | | | 2 | | | | | | | | | | | | | | | |
| 13 | Elective Course 2 | Ex, GC | | 2 | 1 | 1 | 0 | 28 | 10 | 0 | 0 | 18 | 0 | 0 | | | | | | | | | | | | | | | 10 | | | 18 | | | 2 | | | | | | | | |
| 14 | Elective Course 3 | Ex, GC | | 2 | 1 | 1 | 0 | 26 | 12 | 0 | 0 | 14 | 0 | 0 | | | | | | | | 12 | | | 14 | | | 2 | | | | | | | | | | | | | | | |
| 15 | Diploma Seminar | GC | - | 20 | 2 | 18 | 0 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | 15 | | | | 10 | | | 15 | | | | | 10 |
| 16 | Vocational Apprenticeship part 1 (1,5 months) | GC | - | 8 | 8 | 8 | 0 | 240 | 0 | 0 | 240 | 0 | 0 | 0 | | | 240 | | | | 8 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Vocational Apprenticeship part 2 (1,5 months) | GC | - | 8 | 8 | 8 | 0 | 240 | 0 | 0 | 240 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | 240 | | | | 8 | | | | | | | | |
| | | | Total | 72 | 41 | 49 | 1 | 980 | 82 | 14 | 30 | 252 | 102 | 20 | 14 | 4 | 0 | 112 | 57 | 0 | 22 | 46 | 10 | 0 | 122 | 45 | 20 | 19 | 22 | 0 | 15 | 18 | 0 | 0 | 21 | 0 | 0 | 15 | 0 | 0 | 0 | 10 |
| | | | | | | | | | Number of hours per semester excluding Vocational Apprenticeship | | | | | | 187 | | | | | | | 243 | | | | | | | 55 | | | | | | | 15 | | | | | | |

**LEGEND:**

- **C** Credit
- **GC** Graded Credit
- **Ex** Exam - applies to L/S type of classes and the course English Language (exam in the 2nd semester)
- **L** Lecture
- **S** Seminar
- **W** Workshops
- **Lab** Laboratory / Foreign Language Workshops
- **P** Project
- **eL** e-learning (Distance Learning)
- **DP** Classes involving direct participation of academic teachers or other people conducting the class
- **PP** Classes developing practical skills
- **DL** Distance Learning

**MARKINGS:**

- CISCO, AWS Authorised Training
- Exam
- Project completed with a separate degree
- Online Classes
- Classes developing practical skills

## Elective Courses:

| No. | Electives 1 (1 of 3) | Level | offered in semester |
|---|---|---|---|
| 1 | Process Automation | 6 | 2 |
| 2 | Big Data Analytics | 5 | 2 |
| 3 | Analityka Big Data | 6 | 2 |

| No. | Electives 3 (1 of 2) | Level | offered in semester |
|---|---|---|---|
| 1 | Computational Intelligence | 5 | 2 |
| 2 | Business Analysis | 3 | 2 |

| No. | Electives 2 (1 of 2) | Level | offered in semester |
|---|---|---|---|
| 1 | Cloud Management | 5 | 3 |
| 2 | Penetration Tests | 6 | 3 |

**Specialty:** **Cybersecurity** **UID-A-CS/2024-L**

| No. | Course title | Form of credit | Level | ECTS Credits | | | | Number of hours | | | | | | | I Year | | | | | | | | | | | | | | | II Year | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Including | | | Total | Including | | | | | | sem 1 | | | | | | | sem 2 | | | | | | | sem 3 | | | | | | | sem 4 | | | | | | |
| | | | | | DP | PP | DL | | L | S | W | Lab | P | eL | L | S | W | Lab | P | eL | ECTS | L | S | W | Lab | P | eL | ECTS | L | S | W | Lab | P | eL | ECTS | L | S | W | Lab | P | eL | ECTS |
| | Specialty Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Specialization Project | GC | 4 | 5 | 2 | 5 | 0 | 45 | 0 | 0 | 0 | 0 | 45 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | 45 | | 5 |
| 2 | Introduction to Network Technologies | GC | 3 | 4 | 2 | 4 | 0 | 54 | 0 | 0 | 0 | 24 | 30 | 0 | | | | 24 | 30 | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Cybersecurity Essentials | GC | 4 | 2 | 1 | 2 | 0 | 20 | 0 | 0 | 0 | 20 | 0 | 0 | | | | | | | | | | | 20 | | | 2 | | | | | | | | | | | | | | | |
| 4 | Monitoring and Detecting Security Threats | GC | 4 | 2 | 1 | 2 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | | | | | | | | | | | | | | | | | | 24 | | | 2 | | | | | | | | |
| 5 | Network Security | GC | 6 | 3 | 1 | 3 | 0 | 26 | 0 | 0 | 0 | 26 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 26 | | | 3 |
| 6 | Advanced Network Technologies | GC | 5 | 3 | 1 | 3 | 0 | 26 | 0 | 0 | 0 | 26 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 26 | | | 3 |
| 7 | Security Polices | Ex | 5 | 2 | 1 | 0 | 0 | 20 | 0 | 20 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | 20 | | | | | 2 |
| | Total specialty | | | 21 | 9 | 19 | 0 | 215 | 0 | 20 | 0 | 120 | 75 | 0 | 0 | 0 | 0 | 24 | 30 | 0 | 4 | 0 | 0 | 0 | 20 | 0 | 0 | 2 | 0 | 0 | 0 | 24 | 0 | 0 | 2 | 0 | 20 | 0 | 52 | 45 | 0 | 13 |
| | Total | | | 93 | 50 | 68 | 1 | 1195 | 82 | 34 | 30 | 372 | 177 | 20 | 14 | 4 | 0 | 136 | 87 | 0 | 26 | 46 | 10 | 0 | 142 | 45 | 20 | 21 | 22 | 0 | 15 | 42 | 0 | 0 | 23 | 0 | 20 | 15 | 52 | 45 | 0 | 23 |
| | | | | | | | | | Number of hours per semester excluding Vocational Apprenticeship | | | | | | 241 | | | | | | | 263 | | | | | | | 79 | | | | | | | 132 | | | | | | |

| | |
|---|---|
| % ECTS electives | 33% |
| ECTS credits to obtain within humanities or social sciences | 5 |