

**Fall semester 2025/2026**

**The list of the Courses for Information Technology**

**Bachelor degree**

**Major: Information Technology – Computer Science**

| Year | Semester of study at the UITM | The name of the subject*                               | ECTS |
|------|-------------------------------|--|------|
| I    | 1                             | Digital Safety and Awareness                           | 1    |
| I    | 1                             | English Language                                       | 4    |
| I    | 1                             | Discrete Mathematics                                   | 6    |
| I    | 1                             | Fundamentals of Mathematics                            | 4    |
| I    | 1                             | Network Technologies (CCNA)                            | 5    |
| I    | 1                             | Introduction to IT                                     | 3    |
| I    | 1                             | Introduction to Programming                            | 4    |
| II   | 3                             | Personal Business Model                                | 1    |
| II   | 3                             | Fundamentals of Economics                              | 1    |
| II   | 3                             | Fundamentals of Statistics                             | 2    |
| II   | 3                             | Programming  | 4    |
| II   | 3                             | Software project                                       | 6    |
| II   | 3                             | Operating Systems                                      | 4    |
| II   | 3                             | Introduction to Electronics and Electrical engineering | 3    |
| III  | 5                             | Computer Graphics with HCI Elements                    | 2    |
| III  | 5                             | Artificial Intelligence                                | 4    |

\*If you have additional questions about the course content, please send an e-mail: [erasmus@wsiz.edu.pl](mailto:erasmus@wsiz.edu.pl)

**Major: Information Technology – Game design**

| Year | Semester of study at the UITM | The name of the subject*                               | ECTS |
|------|-------------------------------|--|------|
| I    | 1                             | Digital Safety and Awareness                           | 1    |
| I    | 1                             | English Language                                       | 4    |
| I    | 1                             | Discrete Mathematics                                   | 6    |
| I    | 1                             | Fundamentals of Mathematics                            | 4    |
| I    | 1                             | Network Technologies (CCNA)                            | 5    |
| I    | 1                             | Introduction to IT                                     | 3    |
| I    | 1                             | Introduction to Programming                            | 4    |
| II   | 3                             | Personal Business Model                                | 1    |
| II   | 3                             | Fundamentals of Economics                              | 1    |
| II   | 3                             | Fundamentals of Statistics                             | 2    |
| II   | 3                             | Programming  | 4    |
| II   | 3                             | Software project                                       | 6    |
| II   | 3                             | Operating Systems                                      | 4    |
| II   | 3                             | Creating Graphic Assets                                | 3    |
| II   | 3                             | Introduction to Electronics and Electrical engineering | 3    |
| III  | 5                             | Physics in Games                                       | 4    |
| III  | 5                             | Computer Graphics with HCI Elements                    | 2    |
| III  | 5                             | Game Engines and Programming Technologies              | 5    |
| III  | 5                             | Artificial Intelligence                                | 4    |



### Major: Information Technology – Programming

| Year | Semester of study at the UITM | The name of the subject*                               | ECTS |
|------|-------------------------------|--|------|
| I    | 1                             | Digital Safety and Awareness                           | 1    |
| I    | 1                             | English Language                                       | 4    |
| I    | 1                             | Discrete Mathematics                                   | 6    |
| I    | 1                             | Fundamentals of Mathematics                            | 4    |
| I    | 1                             | Network Technologies (CCNA)                            | 5    |
| I    | 1                             | Introduction to IT                                     | 3    |
| I    | 1                             | Introduction to Programming                            | 4    |
| II   | 3                             | Personal Business Model                                | 1    |
| II   | 3                             | Fundamentals of Economics                              | 1    |
| II   | 3                             | Fundamentals of Statistics                             | 2    |
| II   | 3                             | Programming  | 4    |
| II   | 3                             | Software project                                       | 6    |
| II   | 3                             | Operating Systems                                      | 4    |
| II   | 3                             | Introduction to Electronics and Electrical engineering | 3    |
| III  | 5                             | Computer Graphics with HCI Elements                    | 2    |
| III  | 5                             | Programming Languages 2                                | 7    |
| III  | 5                             | CASE Tools Methodology                                 | 7    |
| III  | 5                             | Artificial Intelligence                                | 4    |

\*If you have additional questions about the course content, please send an e-mail: [erasmus@wsiz.edu.pl](mailto:erasmus@wsiz.edu.pl)

### Master degree

#### Major: Information Technology – Cybersecurity

| Year | Semester of study at the UITM | The name of the subject*           | ECTS |
|------|-------------------------------|------------------------------------|------|
| I    | 2                             | Data Security in IT Systems        | 2    |
| I    | 2                             | English Language                   | 4    |
| I    | 2                             | Team management                    | 1    |
| I    | 2                             | Sociology                          | 1    |
| I    | 2                             | Introduction to Cloud Technologies | 1    |
| I    | 2                             | Monographic Lecture                | 1    |

\*If you have additional questions about the course content, please send an e-mail: [erasmus@wsiz.edu.pl](mailto:erasmus@wsiz.edu.pl)