**STUDY PROGRAMMS AT WSEI UNIVERSITY**

**COMPUTER SCIENCE 2023/24**

**Specialty: CYBER SECURITY AND NETWORK TECHNOLOGIES**

**Year of studies: 1st Semester: 1st**

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| **No.** | **Subject** | **ECTS** |
| 1 | General module (health and safety, basics of intellectual property protection, library, IT) | 5 |
| 2 | Mathematical analysis with linear algebra | 5 |
| 3 | Operational systems | 5 |
| 4 | Basic of programming | 5 |
| 5 | Systems architecture | 5 |
| 6 | Electrical and electronic engineering | 5 |

**Year of studies: 1st Semester: 2nd**

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| **No.** | **Subject** | **ECTS** |
| 1 | Algorithms and data structures | 5 |
| 2 | Basics of structured programming with C/C++ language | 5 |
| 3 | Designing web services with elements of computer | 5 |
| 4 | Entrepreneurship | 5 |

**Year of studies: 2nd Semester: 3rd**

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| **No.** | **Subject** | **ECTS** |
| 1 | Social and humanistic module (to choose from: professional ethics, sociology, psychology, philosophy) | 5 |
| 2 | IT project management | 5 |
| 3 | Introduction to computer networks | 5 |
| 4 | Software engineering | 5 |
| 5 | ICT and multimedia systems | 5 |

**Year of studies: 2nd Semester: 4rd**

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| **No.** | **Subject** | **ECTS** |
| 1 | Discrete mathematics | 5 |
| 2 | Database systems | 5 |
| 3 | Fundamentals of object-oriented programming in Java | 5 |
| 4 | Basics of artificial intelligence | 5 |

**Year of studies: 3rd Semester: 5th**

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| **No.** | **Subject** | **ECTS** |
| 1 | Introduction to cybersecurity | 6 |
| 2 | Computer network design | 6 |
| 3 | Basics of LAN operation | 6 |
| 4 | Advanced databases | 6 |

**Year of studies: 3rd Semester: 6th**

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| **No.** | **Subject** | **ECTS** |
| 1 | Scaling and connecting CISCO networks | 6 |
| 2 | Communications security and cryptography | 6 |
| 3 | Cyber-attacks on infrastructure - techniques and countermeasures | 6 |

**Year of studies: 4th Semester: 7th**

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| **No.** | **Subject** | **ECTS** |
| 1 | Network monitoring and incident detection | 6 |
| 2 | Virtualization techniques, containerization | 6 |
| 3 | Internet telephony services | 6 |

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