**PROGRAMME OF STUDY**

**SPECIALIST GRADUATE PROFESSIONAL STUDY OF INFORMATION SYSTEMS**

* **LIST OF COURSES**

**Specialist Graduate Study of Information Systems**

**Areas of specialization: Software Engineering and Information Technologies**

# 1st year of study – Semester I (Winter Semester)

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS****credits** |
|
| 1 | Modeling and Simulations | 6 |
| 2 | Databases Management | 4 |
| 3 | Information Systems Development Tools | 6 |
| 4 | Communications Technologies | 6 |
| 10 | Information System Quality Management | 4 |
|  28 | Systems for Managing Manufacturing Processes |  4 |
|  | **Total / Semester** | **30** |

# 1st year of study – Semester II (Summer Semester)

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS****credits** |
|
| 5 | Information System Control and Revision | 4 |
| 7 | Software Engineering | 4 |
| 8 | Development of Object-oriented Applications | 6 |
| 9 | Multimedia System Development | 6 |
| 11 | Computer Management of Complex Systems | 6 |
| 29 | Interface of Business and Process Systems | 4 |
|  | **Total / Semester** | **30** |

# 2nd year of study – Semester III (Winter Semester)

#  Area of specialization: Software Engineering in Business Systems

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS****credits** |
|
| 13 | Distributed Systems | 4 |
| 14 | Modular Software Engineering | 4 |
| 15 | Web Applications Safety | 4 |
| \* | Elective Course I | 6 |
| \* | Elective Course II | 6 |
| \* | Elective Course III | 6 |
|  | **Total / Semester** | **30** |

# 2nd year of study – Semester III (Summer Semester)

# Area of specialization: Business Information Systems

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS****credits** |
|
| 16 | Information System Planning | 4 |
| 17 | Ergometrics and Computer Use | 4 |
|  18 | Internet Technologies and E-business operations | 4 |
| \* | Elective Course I | 6 |
| \* | Elective Course II | 6 |
| \* | Elective Course III | 6 |
|  | **Total / Semester** | **30** |

# \* A student of each area of specialization chooses 3 of the following elective courses:

|  |  |
| --- | --- |
| **Course unit no.** | **Title of the course unit** |
| 19 | Methodics of Technical and Research Work |
| 22 | Office Automation |
| 24 | Information System for Decision-making Support |

2nd year of study – Semester IV (Summer Semester)

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS****credits** |
|
| 25 | Specialist Internship | 15 |
| 26 | Master Thesis | 15 |
|  | **Total / Semester** | **30** |