**Faculty of applied information technologies, machine intelligence and robotics**

Undergraduate SECOND CYCLE OF STUDIES

Study program: **Information and Network Security, Privacy and Data Protection** (INSPDP) 2 years

Active from academic 2023/2024 year

**Two-years (120 EKTS) studies**

**Degree**: Master of Information and Network Securty, Privacy and Data Protection.

**Acquired skills**: law in information technologies, security in information technologies, the right to privacy and the protection of personal data, the basic concepts of information security and networks, as well as the methods and ways of protecting data and privacy.

## IST 2 years

| No. | Code | Course Name | No. of classes | ECTS |
|-----|------|-------------|----------------|------|
| Year I | | | | |
| Semester I | | | | |
| Core Courses | | | | |
| 1 | INSPDP21M01 | Privacy of data processing | 2+1 | 6 |
| 2 | INSPDP21M02 | Architecture of cloud applications and services | 2+1 | 6 |
| 3 | INSPDP21M03 | Big Data Analytics | 2+1 | 6 |
| 4 | INSPDP21M04 | E-Commerce law | 2+1 | 6 |
| Elective | | | | |
| 5 | INSPDP21Exx | Course from elective list | 2+1 | 6 |
| | | | | |
| Year I | | | | |
| Semester II | | | | |
| No. | Code | Course Name | No. of classes | ECTS |
| 1 | INSPDP21M05 | Threats to information systems | 2+1 | 6 |
| 2 | INSPDP21M06 | Data visualization | 2+1 | 6 |
| 3 | INSPDP21M07 | Privacy and data protection | 2+1 | 6 |
| 4 | INSPDP21M08 | Digital transformation and society | 2+1 | 6 |
| Elective | | | | |
| 5 | INSPDP22Exx | Course from elective list | 2+1 | 6 |

| No. | Code | Course Name | No. of classes | ECTS |
|-----|------|-------------|----------------|------|
| Year II | | | | |
| Semester III | | | | |
| No. | Code | Course Name | No. of classes | ECTS |
| Core Courses | | | | |
| 1 | INSPDP23M01 | Open data management | 2+1 | 6 |
| 2 | INSPDP23M02 | Privacy of Electronic and Internet Communications | 2+1 | 6 |
| 3 | INSPDP23M03 | Data modeling | 2+1 | 6 |
| Elective | | | | |
| 4 | INSPDP23Exx | Course from elective list | 2+1 | 6 |
| 5 | INSPDP23Exx | Course from elective list | 2+1 | 6 |
| | | | | |
| Year II | | | | |
| Semester IV | | | | |
| No. | Code | Course Name | No. of classes | ECTS |
| 1 | INSPDP24M04 | Textual data processing | 2+1 | 6 |
| 2 | INSPDP24M05 | Performance, reliability and security of databases | 2+1 | 6 |
| 3 | INSPDP24M06 | Master's thesis – final project | | 12 |
| Elective | | | | |
| 4 | INSPDP24Exx | Course from elective list | 2+1 | 6 |
| Total credits | | | | 120 |

The second cycle of university studies recognizes the modules:

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|---|
| - C - mandatory (core courses), |
| - MiE – elected from the list of courses. |

| | | List of Elective courses | | |
|---|---|---|---|---|
| id | code | Course | Weekly fund of hours | ECTS |
| 1 | INSPDP21E01 | Machine learning | 2+1 | 6 |
| 2 | INSPDP21E02 | ERP systems | 2+1 | 6 |
| 3 | INSPDP21E03 | Distributed systems | 2+1 | 6 |
| 4 | INSPDP21E04 | Multi-platform programming | 2+1 | |
| 5 | INSPDP22E05 | Knowledge-based decision-making systems | 2+1 | 6 |
| 6 | INSPDP22E06 | Automatic verification | 2+1 | 6 |
| 7 | INSPDP22E07 | Entrepreneurship | 2+1 | 6 |
| 8 | INSPDP22E08 | Cyber security | 2+1 | 6 |
| 9 | INSPDP22E09 | Strategic management | 2+1 | 6 |
| 10 | INSPDP23E10 | Data driven business systems | 2+1 | 6 |
| 11 | INSPDP23E11 | Artificial intelligence and expert systems | 2+1 | 6 |
| 12 | INSPDP23E12 | Analysis of large social networks | 2+1 | 6 |
| 13 | INSPDP23E13 | Offensive safety | 2+1 | 6 |
| 14 | INSPDP23E14 | Internet of Things | 2+1 | 6 |
| 15 | INSPDP24E15 | Database management systems | 2+1 | 6 |
| 16 | INSPDP24E16 | Applied e-Ethics | 2+1 | 6 |
| 17 | INSPDP24E17 | Digital forensics | 2+1 | 6 |
| 18 | INSPDP24E18 | Ethical Hacking | 2+1 | 6 |
| 19 | INSPDP24E19 | Business Process Mining | 2+1 | 6 |