

## Lomza State University of Applied Sciences

Faculty of Computer Science and Food Science

Computer Science (first degree) - Stationary Studies: Courses in the **winter** semester of academic year 2021/2022 Specialty: Software Systems

|         | Course   | ECTS | The number of hours per week |       |           |     |   |   | The number of hours in the semester |       |           |     |    |   |
|---------|--|------|------------------------------|-------|-----------|-----|---|---|-------------------------------------|-------|-----------|-----|----|---|
|         | Course   |      | Lec.                         | Exer. | Lab.Spec. | Lab | Р | S | Lec.                                | Exer. | Lab.Spec. | Lab | Р  | S |
| Semeste | r 1  |      |                              |       |           |     |   |   |                                     |       |           |     |    |   |
| 1       | Basics of Programming                              | 5    | 2                            | 1     | 2         |     |   |   | 30                                  | 15    | 30        |     |    |   |
| 2       | Operating Systems                                  | 4    | 1                            |       | 2         |     |   |   | 15                                  |       | 30        |     | _  |   |
| Semeste | r 3  |      |                              |       |           |     |   |   |                                     |       |           |     |    |   |
| 3       | Algorithms and Data Structures                     | 4    | 1                            |       | 2         |     |   |   | 15                                  |       | 30        |     |    |   |
| 4       | Introduction to Numerical Methods                  | 3    | 1                            |       | 2         |     |   |   | 15                                  |       | 30        |     |    |   |
| 5       | Basics of Artificial Intelligence                  | 3    | 1                            |       | 2         |     |   |   | 15                                  |       | 30        |     |    |   |
| 6       | Cryptography                                       | 3    | 1                            |       | 2         |     |   |   | 15                                  |       | 30        |     |    |   |
| 7       | Visual Object-oriented Programming                 | 3    | 1                            |       | 2         |     |   |   | 15                                  |       | 30        |     |    |   |
| 8       | Advanced Computer Networks                         | 3    | 1                            |       | 2         |     |   |   | 15                                  |       | 30        |     |    |   |
| Semeste | r 5  |      |                              |       |           |     |   |   |                                     |       |           |     |    |   |
| 8       | Technologies of Internet Application Manufacturing | 3    | 2                            |       | 2         |     |   |   | 30                                  |       | 30        |     |    |   |
| 9       | Advanced Software Engineering                      | 3    | 2                            |       | 2         |     |   |   | 30                                  |       | 30        |     |    |   |
| 10      | Security of Computer Networks                      | 4    | 2                            |       |           | 2   |   |   | 30                                  |       |           | 30  |    |   |
| 11      | Multimedia   | 3    | 2                            |       | 2         |     |   |   | 30                                  |       | 30        |     |    |   |
| 12      | Team project I                                     | 4    |                              |       |           |     | 2 |   |                                     |       |           |     | 30 |   |
| 13      | Methods and techniques of artificial intelligence  | 3    | 2                            |       | 2         |     |   |   | 30                                  |       | 30        |     |    |   |
|         | Total  | 48   |                              |       |           |     |   |   |                                     |       |           |     |    |   |