

## Student information

|                |             |
|----------------|-------------|
| First names    | Neera Sofia |
| Last name      | Kiviluoma   |
| Student number | H299939     |
| Date of birth  | 25 Apr 2001 |

## Study rights

### DEGREE EDUCATION IN COMPUTING AND ELECTRICAL ENGINEERING (active)

|                |  |
|----------------|--|
| Attendance     | Attending (Autumn semester 2022)<br>Attending (Spring semester 2023) |
| Valid          | 1 Aug 2020–31 Jul 2027   |
| Education type | Bachelor's and Master's Degree                                       |

## Degrees

| Course name and code | Scope | Lang | Grade | Date |
|----------------------|-------|------|-------|------|
| No completed credits |       |      |       |      |

## Study modules

| Course name and code | Scope | Lang | Grade | Date |
|----------------------|-------|------|-------|------|
| No completed credits |       |      |       |      |

## Courses

| Course name and code   | Scope | Lang | Grade | Date        |
|--|-------|------|-------|-------------|
| Multivariable Calculus (MATH.APP.220)                                | 5 cr  | fi   | 3     | 19 Oct 2022 |
| Multivariable Calculus, Exam (MATH.APP.220)                          | 5 cr  | fi   | 3     | 19 Oct 2022 |
| Multivariable Calculus, Participation in teaching (MATH.APP.220)     | 0 cr  | fi   | Pass  | 18 Oct 2022 |
| Information Systems Management (TIJO.216)                            | 5 cr  | fi   | 3     | 16 Oct 2022 |
| Information Systems Management, Participation in teaching (TIJO.216) | 5 cr  | fi   | 3     | 16 Oct 2022 |
| Database Basics (DATA.DB.100)  | 5 cr  | fi   | 3     | 2 Aug 2022  |
| Database Basics, Exam (DATA.DB.100)                                  | 5 cr  | fi   | 3     | 2 Aug 2022  |
| Database Basics, Independent study (DATA.DB.100)                     | 0 cr  | fi   | Pass  | 31 Jul 2022 |
| Mobile Programming (COMP.CS.220)                                     | 5 cr  | fi   | 5     | 29 Jul 2022 |
| Mobile Programming, Participation in teaching (COMP.CS.220)          | 5 cr  | fi   | 5     | 29 Jul 2022 |
| Programming Technique C (COMP.CS.120)                                | 5 cr  | fi   | 3     | 22 Jun 2022 |
| Concurrency (COMP.CS.310)  | 5 cr  | en   | 3     | 3 Jun 2022  |
| Concurrency, Participation in teaching (COMP.CS.310)                 | 5 cr  | en   | 3     | 3 Jun 2022  |
| Working Life in Swedish (LANG.RUO.001)                               | 3 cr  | sv   | Pass  | 3 May 2022  |

| Course name and code   | Scope | Lang | Grade | Date        |
|--|-------|------|-------|-------------|
| Working Life in Swedish, Participation in teaching (LANG.RUO.001)                    | 0 cr  | sv   | SAT   | 3 May 2022  |
| Working Life in Swedish, Participation in teaching (LANG.RUO.001)                    | 0 cr  | sv   | SAT   | 3 May 2022  |
| Working Life in Swedish, Participation in teaching (LANG.RUO.001)                    | 3 cr  | sv   | Pass  | 2 May 2022  |
| Programming 3: Interfaces and Techniques (COMP.CS.140)                               | 5 cr  | fi   | 5     | 29 Apr 2022 |
| Programming 3: Interfaces and Techniques, Exam (COMP.CS.140)                         | 5 cr  | fi   | 5     | 29 Apr 2022 |
| Programming 3: Interfaces and Techniques, Participation in teaching (COMP.CS.140)    | 0 cr  | fi   | Pass  | 29 Apr 2022 |
| Organizational Learning and Renewal (TIJO.210)                                       | 5 cr  | fi   | 3     | 18 Mar 2022 |
| Organizational Learning and Renewal, Participation in teaching (TIJO.210)            | 5 cr  | fi   | 3     | 18 Mar 2022 |
| University Physics 3 (FYS.103)   | 5 cr  | fi   | 4     | 5 Jan 2022  |
| University Physics 3, Participation in teaching (FYS-1070)                           | 5 cr  | fi   | 4     | 5 Jan 2022  |
| University Physics 3, Exam (FYS-1070)  | 0 cr  | fi   | 4     | 22 Oct 2021 |
| Basics of Information and Knowledge Management (TIJO.010)                            | 5 cr  | fi   | 3     | 27 Dec 2021 |
| Basics of Information and Knowledge Management, Participation in teaching (TIJO.010) | 5 cr  | fi   | 3     | 27 Dec 2021 |
| Introduction to Embedded Systems (COMP.CE.100)                                       | 5 cr  | fi   | 3     | 22 Dec 2021 |
| Introduction to Embedded Systems, Participation in teaching (COMP.CE.100)            | 5 cr  | fi   | 3     | 22 Dec 2021 |
| Data Structures and Algorithms 1 (COMP.CS.300)                                       | 5 cr  | fi   | 5     | 22 Dec 2021 |
| Data Structures and Algorithms 1, Participation in teaching (COMP.CS.300)            | 5 cr  | fi   | 5     | 22 Dec 2021 |
| Basic Course on Communications Engineering (COMM.100)                                | 5 cr  | fi   | 5     | 22 Dec 2021 |
| Basic Course on Communications Engineering, Exam (COMM.100)                          | 5 cr  | fi   | 5     | 22 Dec 2021 |
| Basic Course on Communications Engineering, Lectures and project work (COMM.100)     | 0 cr  | fi   | Pass  | 19 Dec 2021 |

| Course name and code  | Scope | Lang | Grade | Date        |
|---|-------|------|-------|-------------|
| GIT Open (COMP.CS.060)  | 2 cr  | fi   | Pass  | 20 Dec 2021 |
| GIT Open, Independent study (COMP.CS.060)   | 2 cr  | fi   | Pass  | 20 Dec 2021 |
| Introduction to Signal Processing (COMP.SGN.100)  | 5 cr  | fi   | 2     | 13 Dec 2021 |
| Introduction to Signal Processing, Exam (COMP.SGN.100)  | 5 cr  | fi   | 2     | 13 Dec 2021 |
| Introduction to Signal Processing, Participation in teaching (COMP.SGN.100)                     | 0 cr  | fi   | Pass  | 12 Dec 2021 |
| Introduction to Statistical Methods (DATA.STAT.120)   | 5 cr  | fi   | 4     | 31 Oct 2021 |
| Introduction to Statistical Methods, Exam (DATA.STAT.120)                                       | 5 cr  | fi   | 4     | 31 Oct 2021 |
| Introduction to Statistical Methods, Participation in teaching (DATA.STAT.120)                  | 0 cr  | fi   | Pass  | 24 Oct 2021 |
| University Physics 2 (FYS-1060)   | 5 cr  | fi   | 3     | 28 Jun 2021 |
| University Physics 2, Participation in teaching (FYS-1060)                                      | 5 cr  | fi   | 3     | 28 Jun 2021 |
| University Physics 2, Exam (FYS-1060)   | 0 cr  | fi   | 3     | 6 May 2021  |
| Programming 2: Structures (COMP.CS.110)   | 5 cr  | fi   | 3     | 23 May 2021 |
| Programming 2: Structures, Independent study (COMP.CS.110)                                      | 0 cr  | fi   | 3     | 11 May 2021 |
| Programming 2: Structures, Exam (COMP.CS.110)   | 5 cr  | fi   | 3     | 23 May 2021 |
| Professional Interactions in English/TST (KIE-32067)  | 2 cr  | en   | Pass  | 3 May 2021  |
| Professional Interactions in English/TST, Participation in teaching (KIE-32067)                 | 2 cr  | en   | Pass  | 3 May 2021  |
| Introduction to Software Engineering (COMP.SE.100)  | 5 cr  | fi   | 2     | 2 May 2021  |
| Introduction to Software Engineering, Participation in teaching (COMP.SE.100)                   | 0 cr  | fi   | Pass  | 2 May 2021  |
| Introduction to Software Engineering, Exam (COMP.SE.100)  | 5 cr  | fi   | 2     | 2 May 2021  |
| Introduction to Probability and Statistical Inference (MATH.APP.210)                            | 5 cr  | fi   | 4     | 30 Apr 2021 |
| Introduction to Probability and Statistical Inference, Participation in teaching (MATH.APP.210) | 5 cr  | fi   | 4     | 30 Apr 2021 |
| University Physics 1 (FYS-1050)   | 5 cr  | fi   | 1     | 25 Mar 2021 |
| University Physics 1, Participation in teaching (FYS-1050)                                      | 5 cr  | fi   | 1     | 25 Mar 2021 |

| Course name and code   | Scope | Lang | Grade | Date        |
|--|-------|------|-------|-------------|
| University Physics 1, Exam (FYS-1050)  | 0 cr  | fi   | 1     | 1 Mar 2021  |
| Differential and Integral Calculus (MATH.APP160)                                     | 5 cr  | fi   | 2     | 26 Feb 2021 |
| Differential and Integral Calculus, Participation in teaching (MATH.APP160)          | 5 cr  | fi   | 2     | 26 Feb 2021 |
| Vectors and Matrices (MATH.MA.140)   | 5 cr  | fi   | 4     | 31 Dec 2020 |
| Vectors and Matrices, Exam (MATH.MA.140)   | 0 cr  | fi   | Pass  | 31 Dec 2020 |
| Vectors and Matrices, Participation in teaching (MATH.MA.140)                        | 5 cr  | fi   | 4     | 31 Dec 2020 |
| Programming 1: Introduction to Programming (COMP.CS.100)                             | 5 cr  | fi   | 4     | 20 Dec 2020 |
| Cyber Security I: Fundamentals (COMP.SEC.100)  | 5 cr  | fi   | 3     | 10 Dec 2020 |
| Cyber Security I: Fundamentals, Exam (COMP.SEC.100)                                  | 5 cr  | fi   | 3     | 10 Dec 2020 |
| Cyber Security I: Fundamentals, Participation in teaching (COMP.SEC.100)             | 0 cr  | fi   | 3     | 3 Dec 2020  |
| Digitaaliset yleistaidot, teema 5: Kyberturvallisuuden perusteet (COMP.CS.015)       | 1 cr  | fi   | Pass  | 23 Nov 2020 |
| Digitaaliset yleistaidot, teema 5: Kyberturvallisuuden perusteet, Exam (COMP.CS.015) | 1 cr  | fi   | Pass  | 23 Nov 2020 |
| Introduction to Studies in Technology (TST-01210)                                    | 5 cr  | fi   | Pass  | 18 Nov 2020 |
| Introduction to Studies in Technology, Participation in teaching (TST-01210)         | 5 cr  | fi   | Pass  | 18 Nov 2020 |
| Introduction to Studies in Technology, Participation in teaching (TST-01210)         | 0 cr  | fi   | Pass  | 24 Sep 2020 |
| Signals and Measurements (ELT-10002)   | 5 cr  | fi   | 1     | 15 Oct 2020 |
| Signals and Measurements, Exam (ELT-10002)   | 0 cr  | fi   | 1     | 15 Oct 2020 |
| Signals and Measurements, Participation in teaching (ELT-10002)                      | 5 cr  | fi   | Pass  | 15 Oct 2020 |
| Fundamentals of Engineering Mathematics (MATH.APP110)                                | 5 cr  | fi   | 5     | 12 Oct 2020 |
| Fundamentals of Engineering Mathematics, Participation in teaching (MATH.APP110)     | 5 cr  | fi   | 5     | 12 Oct 2020 |

## Partially completed courses

| Course name and code | Scope | Lang | Grade | Date |
|----------------------|-------|------|-------|------|
| No completed credits |       |      |       |      |

Grade average 3,31

Total course credits 143 cr

The degree includes studies completed elsewhere with a total of 0 cr

### GRADING SCALES AND DESCRIPTIONS FOR COMPLETED STUDIES

The scope of studies is measured in ECTS credits (cr). The average workload of 1 600 hours needed to complete one academic year of studies corresponds to 60 credits.

The average grade of study attainments is calculated from courses which have been graded on a scale from 0 to 5 (fail–excellent) and which the student has passed. The average grade is weighted according to the courses' scopes in credits.

#### Language of study

|         |        |
|---------|--------|
| Finnish | 133 cr |
| Swedish | 3 cr   |
| English | 7 cr   |

Language of study: fi (Finnish), sv (Swedish), en (English).  
The language of study is not defined for all completed studies.

#### Grading scale for completed studies

5 (excellent), 4 (very good), 3 (good), 2 (satisfactory), 1 (passable), 0 (fail)

Pass (Pass), Fail (Fail)

This document has been electronically certified in Tampere University's student information system.  
Tampere University will verify the authenticity of the electronic certificate upon request.