

|   |   |
|---|---|
| Student, Personal Identity Code             | MADEE UTHTHARA DEEGODA GAMAGE, 150400A762F  |
| OID   | 1.2.246.562.24.93728234301  |
| Degree Programme, credits                   | Bachelor's Degree Programme in Information and Communications Technology, 240.00 cr |
| Form of education                           | Studies leading to Bachelor's degree (Full Time)                                    |
| Language of Instruction                     | English   |
| Completed                                   | 173.00 cr   |
| Average grade of completed courses          | 4.48  |
| Weighted average grade of completed courses | 4.43  |

| <u>Studies</u>  | <u>Credits</u> | <u>Grade</u> | <u>Date</u> |
|---|----------------|--------------|-------------|
| <b>LANGUAGES AND COMMUNICATION STUDIES</b>  | <b>11.00</b>   |              |             |
| ZZPC0220 English for Working Life   | 4.00           | 4            | 23.5.2024   |
| ZWPC0420 Communication Skills for Working Life  | 3.00           | 2            | 29.7.2024   |
| ZWPC0820 Finnish 1  | 4.00           | 2            | 8.12.2023   |
| <b>FUTURE FACTORY</b>   | <b>12.00</b>   |              |             |
| ZZPP0740 JAMK InnoFlash   | 2.00           | P            | 27.11.2023  |
| ZZPP0920 Future Factory Project   | 10.00          | P            | 28.4.2025   |
| Project   | 8.00           | P            | 28.4.2025   |
| Sustainable Development   | 2.00           | P            | 24.4.2025   |
| <b>BASIC ENGINEERING MATHEMATICS AND PHYSICS</b>  | <b>24.00</b>   |              |             |
| TZLM1300 Math1 Equations  | 3.00           | 5            | 19.12.2023  |
| TZLM2300 Math2 Functions  | 3.00           | 5            | 3.3.2024    |
| TZLM3300 Math3 Derivative and Integral  | 3.00           | 5            | 26.4.2024   |
| TZLM4300 Math4 Discrete Mathematics   | 3.00           | 5            | 18.12.2024  |
| TZLF1300 Phys1 Force and Motion   | 3.00           | 5            | 19.4.2024   |
| TZLF2300 Phys2 Energy   | 3.00           | 5            | 11.10.2024  |
| TZLF8010 Physics 3 - Electromagnetism and Waves   | 4.00           | 5            | 14.4.2025   |
| TZLF8020 Physics 4 - Laboratory work  | 2.00           | 5            | 11.12.2024  |
| <b>MATHEMATICS AND APPLYING OF NATURAL SCIENCES IN INFORMATION AND COMMUNICATION TECHNOLOGY</b> | <b>9.00</b>    |              |             |
| TZLM7020 Applied mathematics: Cryptology  | 3.00           | P            | 16.12.2024  |
| TZLM7030 Applied mathematics: Optimization and Network Models                                   | 3.00           | P            | 7.3.2025    |
| TZLM7050 Applied mathematics: Vectors and Matrices  | 3.00           | P            | 5.3.2025    |
| <b>SUPPORT STUDIES</b>  | <b>6.00</b>    |              |             |
| TZMV0300 Preparatory Mathematics  | 3.00           | P            | 14.10.2023  |
| TZMV2100 Math2 Support  | 1.00           | P            | 11.3.2024   |
| TZMV3100 Math3 Support  | 1.00           | P            | 19.4.2024   |
| TTZW0410 Git -version control and Gitlab -project management environment                        | 1.00           | P            | 28.5.2024   |
| <b>TIC, INFORMATION TECHNOLOGY</b>  | <b>28.00</b>   |              |             |
| ZZPP0520 Development as an Expert   | 5.00           |              |             |
| Orientation Week  | 1.00           | P            | 22.9.2023   |
| Jamk as study environment   | 1.00           | P            | 11.1.2024   |
| Reporting   |                | P            | 6.5.2024    |
| Student Wellbeing   | 1.00           | P            | 11.1.2024   |
| PLPs  | 1.00           |              |             |
| Working Life Skills   | 1.00           | P            | 6.5.2024    |
| ZZPP0420 ICT Skills   | 3.00           | P            | 4.12.2023   |
| TTC1010 IT Service Platforms  | 3.00           | 5            | 3.12.2024   |
| TTC1020 Cyber Security  | 4.00           | 5            | 2.5.2025    |
| TTC1030 Data Networks   | 5.00           | 1            | 19.5.2024   |

Student, Personal Identity Code MADEE UTHTHARA DEEGODA GAMAGE, 150400A762F  
 OID 1.2.246.562.24.93728234301

| <u>Studies</u>   | <u>Credits</u> | <u>Grade</u> | <u>Date</u> |
|--|----------------|--------------|-------------|
| TTC1040 Linux Basics   | 5.00           | 5            | 30.11.2023  |
| TTC1050 Data Structures and Algorithms                             | 3.00           | 5            | 18.4.2025   |
| TTC1060 Digital Technology and Hardware                            | 5.00           | 3            | 23.4.2024   |
| <b>TIC, SOFTWARE ENGINEERING</b>                                   | <b>31.00</b>   |              |             |
| TTC2010 Web Technologies   | 4.00           | 5            | 14.12.2023  |
| TTC2020 Databases  | 4.00 <i>c</i>  | 5            | 31.3.2023   |
| TTC2030 Basics of Programming                                      | 5.00           | 5            | 20.12.2023  |
| TTC2040 Introduction to IoT-systems                                | 3.00           | 4            | 1.1.2025    |
| TTC2050 Introduction to Data Analytics and Artificial Intelligence | 3.00           | 5            | 1.4.2025    |
| TTC2060 Basics of Scripting and Automatization                     | 3.00           | 5            | 10.12.2024  |
| TTC2070 Project Management and Practices                           | 4.00           | P            | 9.12.2024   |
| TTC2080 Full Stack Programming                                     | 5.00           | 5            | 5.12.2024   |
| <b>APPLICATION DEVELOPMENT</b>                                     | <b>10.00</b>   |              |             |
| TTC8420 Web User Interface Programming                             | 5.00           | 5            | 13.10.2025  |
| TTC8440 Object-oriented Programming                                | 5.00           | 5            | 10.12.2025  |
| <b>ELECTIVE STUDIES</b>  | <b>10.00</b>   |              |             |
| <b>ELECTIVE PROFESSIONAL STUDIES</b>                               | <b>2.00</b>    |              |             |
| HB00CJ53 Ethics of AI  | 2.00           | P            | 7.5.2025    |
| <b>Talent Boost: Integration into Finland</b>                      | <b>8.00</b>    |              |             |
| ZW00BS75 Integration into the Finnish Society                      | 2.00           | P            | 25.4.2024   |
| Creating Careers   | 1.00 <i>h1</i> | P            | 31.7.2024   |
| BI00BB21 Finnish 2   | 5.00           | 3            | 15.5.2024   |
| ZZ00CK90 Entrepreneurship  | 3.00           | P            | 9.12.2025   |
| <b>DATA-ANALYTICS AND ARTIFICIAL INTELLIGENCE</b>                  | <b>25.00</b>   |              |             |
| TTC8010 Computational algorithms                                   | 4.00           | 5            | 10.12.2025  |
| TTC8030 Data Preprocessing   | 4.00           | 5            | 18.2.2025   |
| TTC8020 Data-Analysis and Machine Learning Basics                  | 4.00           | 4            | 30.4.2025   |
| TTC8040 Data Analysis and Visualization                            | 4.00           | 5            | 31.3.2025   |
| TTC8060 Deep Learning  | 5.00           | 5            | 18.11.2025  |
| TTC8050 Machine Learning   | 4.00           | 5            | 7.10.2025   |

### Recognition of Studies

h1 = Creating Careers, 31.7.2024, University of Jyväskylä

### Copied accomplishments

c = Completed in another Jamk University of Applied Sciences study entitlement

### REGULATIONS

The studies are measured in credits (cr). A student's average study effort of 1,600 hours required for the completion of studies during one academic year corresponds to 60 credits. (Decree 1129/2014 § 3.) The Finnish credits are equivalent to the ECTS credits.

The Finnish grades are converted to ECTS grades as follows (ECTS grades in brackets): 5 (A), 4 (B), 3 (C), 2 (D), 1 (E), 0/fail (F or FX).

---

Student, Personal Identity Code  
OID

MADEE UTHTHARA DEEGODA GAMAGE, 150400A762F  
1.2.246.562.24.93728234301

---

Electronic signature

This document is electronically signed 11.12.2025 23:29 using the certificate of the Population Register Center. More exact instructions from the verifying of the authenticity of a document are in the following on the WWW address:  
<https://www.jamk.fi/en/for-students/electronic-services/verification>.