

Student	Jingjing Yang	01.08.2021–31.07.2025
Date of birth	03.08.1991	Studies continue
Student number	2104210	Credits
Programme	Bachelor's Degree Programme in Software Engineering	Completed

Studies	Credits	Assessment	Date
Engineering Mathematics and Science	25 cr		
Mechanics and Thermophysics	5 cr	5	17.12.2021
Electromagnetism, Waves and Atomic Physics	5 cr	5	18.12.2021
Physics Laboratory Works	3 cr	5	09.05.2022
Basics of Measuring and Reporting in ICT Engineering	2 cr	5	18.02.2022
Mathematics 1	5 cr	5	09.01.2022
Mathematics 2	5 cr	5	02.05.2022
ICT Engineering	35 cr		
Embedded Systems	10 cr	4	10.05.2022
Embedded Projects 1	5 cr	5	13.01.2023
Embedded Projects 2	5 cr	5	10.05.2023
Network Technologies	5 cr	5	02.01.2023
Server Technologies	10 cr	5	31.05.2023
Communication and Language Studies	12 cr		
Orientation to ICT Engineering Studies	3 cr	5	14.10.2021
English for ICT Engineering Students	3 cr	5	12.01.2022
Language Studies	6 cr		
Finnish I / Swedish I	3 cr	s1	4
Finnish II / Swedish II	3 cr	s2	4
Software Engineering	110 cr		
Programming Languages	15 cr		
Programming Languages 1	5 cr	5	07.01.2022
Programming Languages 2	5 cr	5	16.05.2022
Programming Languages 3	5 cr	5	14.12.2022
Device Oriented Programming	15 cr		
Mobile App Development 1	5 cr	5	29.05.2023
Mobile App Development 2	5 cr	5	09.01.2024
Operating System Concepts and Linux	5 cr	5	26.04.2024
System Programming			
Software Architectures and Engineering	10 cr		
Software Architectures and Design	5 cr	5	21.12.2023
Software Implementation and Testing	5 cr	5	08.04.2024
Data Analytics and Machine Learning	20 cr		
Data Systems and Analysis	5 cr	5	12.12.2022
Data Analysis and Visualization	7 cr	5	28.04.2023
AI and Machine Learning	8 cr	4	17.12.2023
Web Development	25 cr		
Basics of Web Development	5 cr	5	26.05.2022
Web Software Production	5 cr	5	13.01.2023
Full Stack Web Development	10 cr	5	19.01.2024

5 = Excellent, 4 = Very Good, 3 = Good, 2 = Satisfactory, 1 = Sufficient, 0 = Fail, S = Pass

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API Service Development		5 cr	5	22.11.2024
Graphical User Interfaces and Usability		10 cr		
Software Requirements and Application		5 cr	5	18.12.2023
Prototyping				
Graphical User Interfaces		5 cr	5	16.05.2024
Software Projects		15 cr		
Software Project		5 cr	5	11.12.2024
Professional Software Development		10 cr	5	21.05.2024
Practical Training		30 cr		
Practical Training 1		6 cr	k1	S 20.09.2021
Practical Training 2		12 cr		S 15.10.2024
Practical Training 3		12 cr		S 15.10.2024
Free-Choice Studies (MAX 15 ECTS)		15 cr		
English in Global Context		3 cr	s3	5 20.09.2021
Organizational Communication		4 cr	s4	5 20.09.2021
Negotiations		2 cr	s5	4 20.09.2021
Research Writing Skills		3 cr	s6	5 20.09.2021
Business Mathematics		3 cr	s7	5 20.09.2021
External studies (not placed)		15 cr		
Thesis Plan		5 cr		5 07.04.2025
Implementing Thesis		5 cr		5 07.04.2025
Reporting Thesis		5 cr		5 15.05.2025

Bachelor's Thesis Title: Development of Non-Invasive Glucose Monitoring System Integration of Spectroscopy, IoT, and Machine Learning for Real-Time Heath Insight

Assessment: 5

Assessment date: 14.5.2025

Compensated studies

k1 = Previous Higher Education Studies, 26.10.2020, HAMK University of Applied Sciences

Inclusions

s1 = 3.12.2017, HAMK University of Applied Sciences

s2 = 6.4.2018, HAMK University of Applied Sciences

s3 = 30.12.2017, HAMK University of Applied Sciences

s4 = 19.4.2018, HAMK University of Applied Sciences

s5 = 22.5.2018, HAMK University of Applied Sciences

s6 = 20.12.2019, HAMK University of Applied Sciences

s7 = 7.11.2017, HAMK University of Applied Sciences

Student Jingjing Yang
Student number 2104210

Electronic signature

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Student information

First names Jingjing
Last name Yang
Student number 154016843
Date of birth 3 Aug 1991

Study rights leading to a degree

MASTER'S DEGREE EDUCATION IN COMPUTING SCIENCES AND ELECTRICAL ENGINEERING

Education type Master's Degree
Valid 1 Aug 2025-31 Jul 2029
Start date 1 Aug 2025
Study right status Active
Academic year registrations Autumn Semester 2025, attending
Spring Semester 2026, attending

Degree title Master of Science (Technology)
Degree programme Master's Programme in Computing Sciences and Electrical Engineering (120 cr)
Specialisation Embedded Systems

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
Microcontrollers (EE.ELE.250)	5 cr	en	5	21 Dec 2025
Introduction to Embedded Systems (COMP.CE.100)	5 cr	en	4	18 Dec 2025
Embedded Linux Drivers (COMP.CE.460)	5 cr	en	4	9 Dec 2025
Finnish 4 (LANG.SUV.004)	2 cr	fi	Pass	28 Nov 2025
Vectors and Matrices (MATH.MA.140)	5 cr	en	5	16 Nov 2025
Finnish 3 (LANG.SUV.003)	3 cr	fi	Pass	13 Oct 2025

Partially completed courses

Course name and code	Scope	Lang	Grade	Date
Software Testing, Participation in teaching (COMP.SE.200)	0 cr	en	Pass	10 Dec 2025
Orientation to Master's Studies and Professional Life, Information searching skills (ITC.CEE.100)	0 cr	en	Pass	7 Dec 2025

Grade average 4,5

Total course credits 25 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	5 cr
Swedish	0 cr
English	20 cr
Other	0 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)

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