

Student	Jingjing Yang	01.08.2021–31.07.2025	
Date of birth	03.08.1991	Studies continue	
Student number	2104210	Credits	240 cr
Programme	Bachelor's Degree Programme in Software Engineering	Completed	242 cr

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	20.09.2021
Finnish II / Swedish II	3 cr	s2	4	20.09.2021
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 System Programming	5 cr	5	26.04.2024	
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	

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API Service Development	5 cr	5		22.11.2024
Graphical User Interfaces and Usability	10 cr			
Software Requirements and Application Prototyping	5 cr	5		18.12.2023
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	<i>k1</i>	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	<i>s3</i>	5	20.09.2021
Organizational Communication	4 cr	<i>s4</i>	5	20.09.2021
Negotiations	2 cr	<i>s5</i>	4	20.09.2021
Research Writing Skills	3 cr	<i>s6</i>	5	20.09.2021
Business Mathematics	3 cr	<i>s7</i>	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 Health 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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Opiskelija	Jingjing Yang	01.08.2021–31.07.2025	
Syntymäaika	03.08.1991	Opinnot jatkuvat	
Opiskelijanumero	2104210	Laajuus	240 op
Ohjelma	Bachelor's Degree Programme in Software Engineering	Suoritettu	242 op

Opinnot	Laajuus	Arviointi	Pvm	
Engineering Mathematics and Science	25 op			
Mechanics and Thermophysics	5 op	5	17.12.2021	
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Software Implementation and Testing	5 op	5	08.04.2024	
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Data Systems and Analysis	5 op	5	12.12.2022	
Data Analysis and Visualization	7 op	5	28.04.2023	
AI and Machine Learning	8 op	4	17.12.2023	
Web Development	25 op			
Basics of Web Development	5 op	5	26.05.2022	
Web Software Production	5 op	5	13.01.2023	
Full Stack Web Development	10 op	5	19.01.2024	

5 = kiitettävä, 4 = erittäin hyvä, 3 = hyvä, 2 = tyydyttävä, 1 = välttävä, 0 = hylätty, S = suoritus hyväksytty

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Opiskelijanumero	2104210			
API Service Development	5 op	5		22.11.2024
Graphical User Interfaces and Usability	10 op			
Software Requirements and Application Prototyping	5 op	5		18.12.2023
Graphical User Interfaces	5 op	5		16.05.2024
Software Projects	15 op			
Software Project	5 op	5		11.12.2024
Professional Software Development	10 op	5		21.05.2024
Practical Training	30 op			
Practical Training 1	6 op	<i>k1</i>	S	20.09.2021
Practical Training 2	12 op		S	15.10.2024
Practical Training 3	12 op		S	15.10.2024
Free-Choice Studies (MAX 15 ECTS)	15 op			
English in Global Context	3 op	<i>s3</i>	5	20.09.2021
Organizational Communication	4 op	<i>s4</i>	5	20.09.2021
Negotiations	2 op	<i>s5</i>	4	20.09.2021
Research Writing Skills	3 op	<i>s6</i>	5	20.09.2021
Business Mathematics	3 op	<i>s7</i>	5	20.09.2021
Hopsin ulkopuoliset opinnot (sijoittamattomat)	15 op			
Opinnäytetyön suunnittelu	5 op	5		07.04.2025
Opinnäytetyön toteutus	5 op	5		07.04.2025
Opinnäytetyön raportointi	5 op	5		15.05.2025

Opinnäytetyö: Ei-invasiivinen glukoosimittari

Arviointi: 5

Arviointipäivämäärä: 14.5.2025

Korvaavat suoritukset

k1 = Aiemmat korkeakouluopinnot, 26.10.2020, Hämeen ammattikorkeakoulu

Sisältyvyydet

s1 = 3.12.2017, Hämeen ammattikorkeakoulu

s2 = 6.4.2018, Hämeen ammattikorkeakoulu

s3 = 30.12.2017, Hämeen ammattikorkeakoulu

s4 = 19.4.2018, Hämeen ammattikorkeakoulu

s5 = 22.5.2018, Hämeen ammattikorkeakoulu

s6 = 20.12.2019, Hämeen ammattikorkeakoulu

s7 = 7.11.2017, Hämeen ammattikorkeakoulu

Opiskelija	Jingjing Yang
Opiskelijanumero	2104210

Sähköinen allekirjoitus

Tämä dokumentti on sähköisesti allekirjoitettu 15.5.2025 kello 10.59 käyttäen Digi- ja väestötietoviraston varmennetta. Lisätietoja dokumentin aitouden varmistamisesta on Tampereen ammattikorkeakoulun internetsivuilla www.tuni.fi/esignature