

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	
<b>Engineering Mathematics and Science</b>	<b>25 cr</b>			
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	
<b>ICT Engineering</b>	<b>35 cr</b>			
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	
<b>Communication and Language Studies</b>	<b>12 cr</b>			
Orientation to ICT Engineering Studies	3 cr	5	14.10.2021	
English for ICT Engineering Students	3 cr	5	12.01.2022	
<b>Language Studies</b>	<b>6 cr</b>			
Finnish I / Swedish I	3 cr	s1	4	20.09.2021
Finnish II / Swedish II	3 cr	s2	4	20.09.2021
<b>Software Engineering</b>	<b>110 cr</b>			
<b>Programming Languages</b>	<b>15 cr</b>			
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	
<b>Device Oriented Programming</b>	<b>15 cr</b>			
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	
<b>Software Architectures and Engineering</b>	<b>10 cr</b>			
Software Architectures and Design	5 cr	5	21.12.2023	
Software Implementation and Testing	5 cr	5	08.04.2024	
<b>Data Analytics and Machine Learning</b>	<b>20 cr</b>			
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	
<b>Web Development</b>	<b>25 cr</b>			
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
<b>Graphical User Interfaces and Usability</b>	<b>10 cr</b>		
Software Requirements and Application Prototyping	5 cr	5	18.12.2023
Graphical User Interfaces	5 cr	5	16.05.2024
<b>Software Projects</b>	<b>15 cr</b>		
Software Project	5 cr	5	11.12.2024
Professional Software Development	10 cr	5	21.05.2024
<b>Practical Training</b>	<b>30 cr</b>		
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
<b>Free-Choice Studies (MAX 15 ECTS)</b>	<b>15 cr</b>		
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
<b>External studies (not placed)</b>	<b>15 cr</b>		
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

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Student number	2104210

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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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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

Opiskelija	Jingjing Yang			
Opiskelijanumero	2104210			
API Service Development	5 op	5		22.11.2024
<b>Graphical User Interfaces and Usability</b>	<b>10 op</b>			
Software Requirements and Application Prototyping	5 op	5		18.12.2023
Graphical User Interfaces	5 op	5		16.05.2024
<b>Software Projects</b>	<b>15 op</b>			
Software Project	5 op	5		11.12.2024
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<b>Practical Training</b>	<b>30 op</b>			
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
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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
<b>Hopsin ulkopuoliset opinnot (sijoittamattomat)</b>	<b>15 op</b>			
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

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**Sähköinen allekirjoitus**

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