

Student	Wanjia Liang	01.08.2021–31.12.2025	
Personal identity code	080694-376C	Graduated 31.12.2025	
Student number	2106850	Credits	240 cr
Programme	Bachelor of Engineering, Business Intelligence Technologies	Completed	251 cr

Studies	Credits	Assessment	Date
BASIC STUDIES	78 cr		
Orientation to studies	6 cr		
Conducting research and reporting	3 cr	3	22.05.2024
Orientation to Studies	3 cr	S	11.05.2022
Mathematics	18 cr		
Algebra	3 cr	5	12.11.2022
Geometry	3 cr	4	20.12.2022
Functions	3 cr	5	24.03.2022
Differential Calculus	3 cr	5	04.11.2022
Integral Calculus	3 cr	5	04.05.2022
Statistics	3 cr	5	13.12.2022
Sciences	18 cr		
Chemistry	3 cr	5	26.04.2022
Mechanics	4 cr	2	11.04.2023
Thermophysics	2 cr	4	09.06.2022
Electromagnetism	3 cr	4	05.02.2025
Laboratory Practices in Physics	3 cr	3	13.12.2022
Fundamentals of electronics	3 cr	5	28.12.2023
Language skills	15 cr		
Communication Skills (English Course)	3 cr	5	23.05.2022
English for Working Life	3 cr	4	09.12.2022
Professionally Speaking	3 cr	5	12.05.2022
International students	6 cr		
Basics of Finnish 1	3 cr	5	04.05.2022
Basics of Finnish 2	3 cr	4	14.11.2025
Other basic studies	21 cr		
Leadership and Organizational Development	4 cr	3	14.11.2022
ICT Entrepreneurship	3 cr	5	20.11.2025
Digital and Technological Skills	2 cr	<i>sl</i> S	16.02.2022
ICT project management	3 cr	2	09.05.2025
Programming	6 cr	5	16.05.2023
Information Systems	3 cr	4	24.06.2022
PROFESSIONAL STUDIES	111 cr		
Basic business studies	26 cr		
Management and Digital Marketing	3 cr	4	13.12.2025
Intercultural Competence	3 cr	4	15.05.2023
Global Business Competences	5 cr	<i>sl</i> 4	16.02.2022
Teams and Networks	3 cr	4	06.05.2022
Financial Accounting	4 cr	5	12.04.2022
Enterprise Resource Planning System and Leadership	5 cr	5	18.12.2025
Marketing, Sales and Customer Service	3 cr	3	05.12.2023

5 = Excellent, 4 = Good, 3 = Good, 2 = Satisfactory, 1 = Satisfactory, 0 = Failed, S = Passed

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Basic information technology studies

27 cr

Introduction to computer science	2 cr		5	17.12.2025
Data Structures and Algorithms in Python	5 cr	<i>s2</i>	4	27.10.2023
Python programming	3 cr		5	18.05.2022
Relational databases & SQL	5 cr		5	11.02.2023
Data-driven programming	3 cr		3	12.05.2025
Data science	5 cr		4	28.11.2022
Introduction to DevOps	4 cr	<i>r1</i>	4	30.07.2024

Software engineering

32 cr

Object-Orientated programming and modelling	5 cr		2	03.03.2025
C - Programming	3 cr	<i>s3</i>	S	27.03.2023
Modelling Techniques	3 cr		5	20.03.2023
Mobile software development	6 cr		2	12.05.2025
Scripting and functional programming	3 cr		3	15.03.2024
Software engineering	4 cr		1	23.12.2024
Software testing	3 cr		5	09.10.2024
Basics of web development	5 cr		3	14.12.2025

Business intelligence technologies

26 cr

Advanced Business Intelligence - SAP Analytics Cloud	4 cr		3	17.01.2023
Customer Relationship Management (CRM)	5 cr		5	09.05.2023
Introduction to Artificial Intelligence and Big Data for Business	3 cr	<i>s4</i>	5	15.08.2023
Cloud foundations and operations	5 cr		1	16.12.2024
Web Accessibility	4 cr	<i>r2</i>	4	31.07.2025
Fundamentals of cloud services	5 cr		3	04.12.2023

OPTIONAL STUDIES

17 cr

Legal Environment	3 cr	<i>s1</i>	3	16.02.2022
Study Essentials	3 cr	<i>s1</i>	S	16.02.2022
Erasmus+StartIT Berlin	3 cr		S	05.04.2023
Business Mathematics	3 cr	<i>s1</i>	4	16.02.2022
Work-life skills and personal career growth	5 cr		4	13.05.2022

WORK PLACEMENT

30 cr

Practical Training	10 cr		S	24.05.2023
Practical Training	10 cr		S	04.05.2023
Practical Training	10 cr		S	20.02.2023

THESIS

15 cr

Bachelor's Thesis, Planning	5 cr		3	29.08.2025
Bachelor's Thesis, Implementation	5 cr		3	06.10.2025
Bachelor's Thesis, Reporting and Finalizing	5 cr		3	16.12.2025

Thesis: CONCEPTUAL DESIGN AND PERCEIVED USABILITY EVALUATION OF QUICKORDER: A Multimodal B2B Food Ordering System for Small- and Medium-Sized Restaurants

Assessment: 3

Assessment date: 15.12.2025

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Inclusions

s1 = 31.12.2021, HAMK University of Applied Sciences

s2 = 24.10.2023, VAMK University of Applied Sciences

s3 = 23.3.2023, Metropolia University of Applied Sciences

s4 = 21.7.2023, VAMK University of Applied Sciences

Cross-Institutional Studies

r1 = 30.7.2024, HAMK University of Applied Sciences

r2 = 31.7.2025, HAMK University of Applied Sciences

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Electronic signature

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