

AI-Driven Supply Chain Management (M.Sc.) - Hof University — Hof University

Source: <https://www.hof-university.com/studying-at-hof-university/our-degree-programs/ai-driven-supply-chain-management-msc.html>

The English-taught Master's program AI-driven Supply Chain Management prepares students for the dynamic challenges of global supply chains. It provides a comprehensive understanding of supply chain concepts, enabling students to analyze complex logistics networks, evaluate innovative methods in the fields of logistics and procurement management, and apply AI-driven technologies to optimize efficiency, sustainability, and resilience in end-to-end value creation networks.

Aimed at graduates of a business-related bachelor's program with an interest in digital and AI-driven supply chain management, the program imparts both theoretical expertise and hands-on skills to ensure supply security, flexibility, and long-term competitive advantages. The program provides an overview in the areas of international value chain management, digital procurement, and AI-driven logistics. In addition, the program covers core topics such as supply chain analytics, automation and digital identification and business process management. Students will also gain expertise in data science and applied AI concepts and global business strategy, ensuring they are well-equipped to drive innovation in an increasingly digitalized economy.

To bridge theory and practice, students gain in-depth experience through a practical internship in an internationally operating company, focusing on areas such as supply chain analytics, digital transformation, or AI applications in logistics and procurement. The Master's thesis is project-based and developed in collaboration with the company, allowing students to apply their knowledge in real-world scenarios while gaining profound professional experience at the same time.

With this Master's program, you gain an in-depth, practice-oriented qualification that prepares you for a management role in global supply chain networks, develop expertise in AI-driven technologies and data-driven decision-making for supply chain optimization, understand how to leverage automation, AI, and digitalization to enhance supply chain efficiency, sustainability, and resilience, acquire the skills to navigate and manage complex, interdisciplinary, and international value networks.

In addition, you benefit from easy and direct exchange with your professors (all with many years of international managerial experience), a modern and innovative lecture approach, valuable work experience and intercultural competence gained during the internship semester.

The standard duration of the program is three semesters. During the first two semesters, you engage in practice-oriented coursework. In the third semester, you complete a mandatory internship of at least three months in a company and write your master's thesis.

Upon successful completion of the program, Hof University awards the academic degree Master of Science (M.Sc.).

Semester 1 and 2:

Course modules - practice oriented theory
Automation and Control in Logistics and Supply Chain Management
Data Science and AI Fundamentals
International Value Chain Management

Global Business Strategy
AI-Driven Marketing
AI-Driven Logistics
AI-Driven Process Management
Digital and Sustainable Procurement
Supply Chain Analytics
Advanced Issues of Digital Supply Chain Management

Semester 3: Internship

Master's thesis with an internationally operating company
practical work-experience abroad (mandatory internship; at least 3 months)

The internship must be completed in a country which is different from the student's nationality.

The Master's program is built on an interdisciplinary and application-oriented approach. It integrates leading AI technologies, digital transformation, and supply chain analytics with fundamental concepts such as international value chain management, global business strategy, and business process optimization.

Theoretical frameworks and scientific methodologies are regarded as essential tools for solving real-world supply chain challenges. Students learn to apply AI-driven solutions, automation, and data-driven decision-making to enhance efficiency, sustainability, and resilience in global supply networks. All topics are explored in the context of an increasingly digitalized, automated, and globalized economy, equipping students with the competencies needed to design and manage future-ready supply chains.

Prior to their teaching assignment at Hof University, all professors held leading positions in international industry and commerce. This ensures a hands-on teaching approach and a practice-oriented learning experience in class.

As a graduate, you...

can confidently design, analyze, optimize, and digitally transform global supply chains,
are able to enhance supply chain efficiency, sustainability, and resilience using AI-driven solutions,

have the skills to implement and lead data-driven decision-making processes in procurement, logistics, and supply chain management,

are equipped to structure and manage cross-functional, AI-powered, and international supply chain networks,

have excellent career prospects for leadership positions in globally operating companies at the intersection of supply chain management and digital transformation.

You are ready to work as a:

AI-Driven Supply Chain Manager

Supply Chain Analyst

Logistics and Operations Manager

Procurement and Sourcing Manager

Digital Transformation Manager

Supply Chain and Digital Innovation Manager

Sustainability and Risk Manager in Supply Chains

Digital Consultant in SCM

Digital Operations Manager

Academic requirements

A business-oriented Bachelor's degree (e.g. Business Management, International Management, Industrial Engineering or Business Informatics) from an accredited university;

at least 210 ECTS or equivalent (depending on home country) in total and with a minimum of at least 110 ECTS in business-related subjects
minimum grade 2,5 according to the German grading system (please provide a diploma supplement or similar documents that explain the grading system of your university/country)

Special regulations for applicants with less than 210 ECTS

Applicants with less than 210 credits (ECTS) can be accepted, but must make up the missing credits through a post-qualification:

either through an internship (at least 900 hours / 6 months) (only possible if the internship was not yet recognised as a compulsory internship in the Bachelor's degree) or attending appropriate modules at Hof University.

It is possible to combine the recognition of a shorter internship with the attendance of modules at the university.

For both alternatives, please calculate an additional (fourth) semester.

Language requirements

You need to prove your proficiency in English. This can be done with either of the following:

TOEFL minimum 90

IELTS 6.5 or above

In addition: Basic language skills in German, proven by official test score documents - minimum level A1

All applications must be done via our online application portal Primuss.

The application period for winter intake is between April 15 and May 31.

The application period for summer intake is between November 05 and November 30.

An admission committee intensively scrutinizes all applications and decides about final admission. Admission letters will be issued in June for winter intake and December for summer semester intake.

If you acquired your university entrance certificate abroad, uni-assist must assess the certificate before you can send it to Hof University. We advise you to send your documents to uni-assist at least 4 weeks before our application deadline.

If you have any questions concerning the application process, please contact [admission\(at\)hof-university.de](mailto:admission(at)hof-university.de).

Intensive personal support

Hof University offers a safe, friendly and open-minded study environment. Find out more about our intensive personal support for international students!

AI-Driven Supply Chain Management

Winter semester:

EU: May 1 - July 15

Non-EU: April 15 - May 31

Summer semester:

EU: November 15 - January 15

Non-EU: November 5 - November 30

Info and services

Preparing your stay

Are you coming from abroad and plan to start a Master's degree at Hof University?

On this page, you will find all the essential information you need to prepare for your studies with us: visa, health insurance, financing, accommodation, and more.

The campus is the management and administrative center of the university. Here you will find the university library, high-tech laboratories and university sports facilities.

More about Campus Hof

Head of Program
Student Counseling
Student Affairs - Program Manager
Prof. Dr. Fridtjof Langenhan
Wednesday: 09:30 -10:30
Doreen Rustler
Kathrin Schötz
Please contact our Welcome Center.