

Information for companies

Interdisciplinary programs
in the field of logistics and supply chain and operations management

08.01.2024

Logistics team

Faculty of Business, Economics and Law
Faculty of Automotive Systems and Production

E: logistikbereich@th-koeln.de

Seite 1

A look back: The old Cologne Commercial College from 1901

The Cologne Commercial College –
founded in 1901, building from 1907, forerunner of the TH Cologne and the University of Cologne

The cornerstone for the fruitful development of German business administration as an applied science was laid here in this building with Eugen Schmalenbach, who created business administration as an “art course”.



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Seite 2

Technology
Arts Sciences
TH Köln



TH Köln - The largest University of Applied Sciences in Germany



Established in 1971 as „**Fachhochschule Köln**“, since 09/2015 as „Technische Hochschule Köln“ – short form: TH Köln

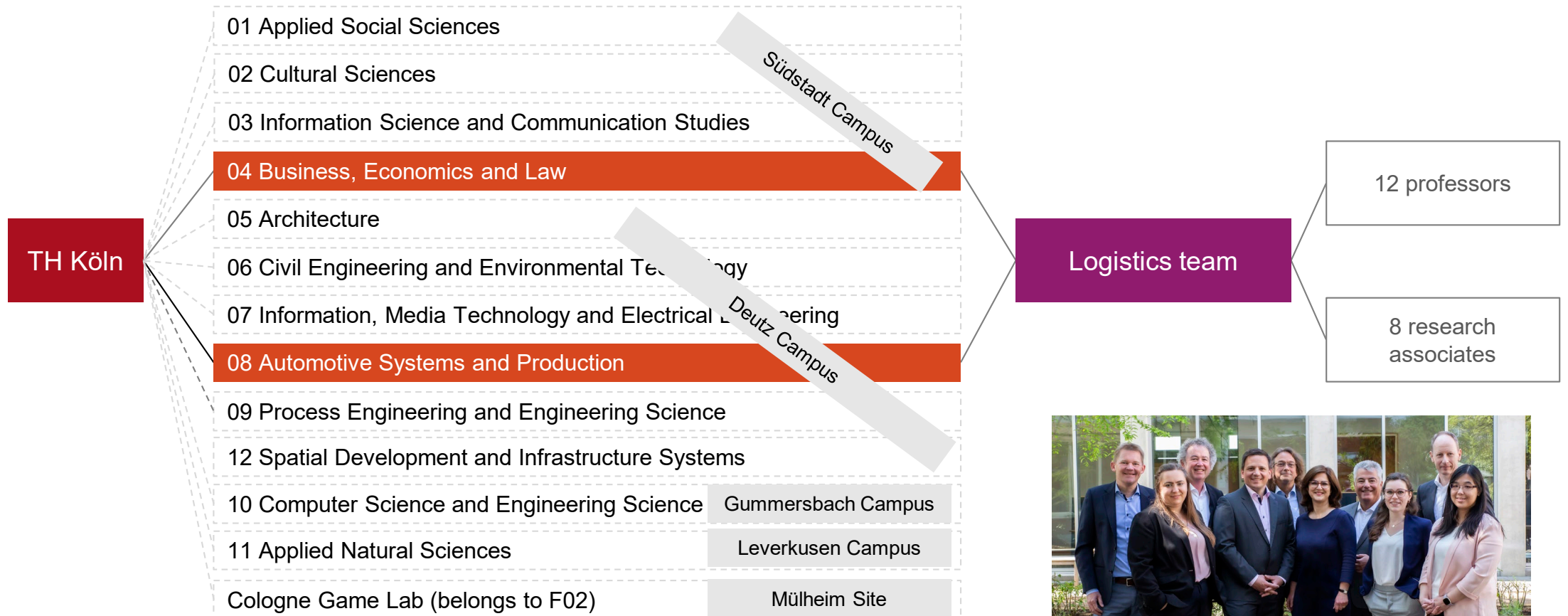
6 locations,
Cologne-Südstadt,
Cologne-Deutz,
Cologne-Mülheim,
Cologne-Kalk,
Gummersbach,
Leverkusen

12 faculties,
subdivided in
48 institutes

More than
100 degree programs

More than **25.000 students**, including
4.400 foreign students

The supply chain expertise of the faculties 04 and 08 is clustered in a logistics team



Who we are - The logistics team of TH Köln



Prof. Dr. Helmut Abels
*Production Planning and Control,
Production Management*



Prof. Dr. Michael Lorth
*Logistics Consulting, Logistics Centre Planning,
Conflict Resolution and Negotiation Techniques*



Thorsten Fleuth, B.Sc.
*Scientific Assistant
Production Logistics*



Prof. Dr. Zelal Ates
*Marketing, Relationship Management in
Supply Chains*



Prof. Dr. Hartmut Reinhard
*Strategic Controlling, Outsourcing, Development of
Business Scenarios for Start-ups*



Martin Klein, B.Sc.
*Scientific Assistant
Professional group of Logistics*



Prof. Dr. Stephan Freichel
*Distribution Logistics,
Head of the Examination Board*



Prof. Dr. Helmut Schulte Herbrüggen
*Fundamentals of Logistics, Procurement Logistics, Strategic
Aspects of Supply Chain Management and Logistical Networks*



Felix Lammerding, B.Sc.
*Scientific assistant
Professional group of Logistics*



Prof. Dr. Kathrin Hesse
*Disposal Logistics and Environmental
Management Systems, Chemical logistics*



Prof. Dr. Tom Tiltmann
*Information technology, Assistance Systems,
Process Modelling*



Anni Jieying Luu, M.Sc.
*Scientific Assistant
Professional group of Logistics*



Prof. Dr. Marc Kastner
*Disposal logistics and Environmental
Management Systems, Chemical Logistics*



Prof. Dr. Franz Josef Weiper
*Logistics IT, Production Planning and Control,
Digitalisation in Production and Logistics*



Marc Petrovic, Dipl.-Ing. (FH)
Scientific Assistant



Prof. Dr. Thomas Krupp
*Transport logistics, Traffic Logistics,
Accounting, Logistics Controlling*



Prof. Dr. Sebastian C. Zoller
*Business Organisation, Production Logistics,
Process Management*



Pia Rütten, M.Sc.
*Scientific Assistant Distribution Logistics,
Scientific Member of the Examination Board*



Andrea Vialaneix, B.Sc.
*Study Programme Administration
Professional group of Logistics
on parental leave*



Anke Vollmer, M.A.
Business English for Logistics

08.01.2024

Logistikteam

Fakultät für Wirtschafts- und Rechtswissenschaften
Fakultät für Fahrzeugsysteme und Produktion
E: logistikbereich@th-koeln.de

University prize for freight transport and logistics for the logistics department of the TH Köln

In December 2020, the interdisciplinary logistics team at TH Köln was awarded with the University Prize for Goods Transport and Logistics by the *Federal Ministry of Transport and Digital Infrastructure*. The prize honors outstanding courses and the motto for 2020 was "Artificial Intelligence in Logistics".

The jury explained their choice as follows: "We were particularly impressed by the clear connection of the teaching programme to the topic of 'Artificial Intelligence in Logistics' as well as its versatility. The wide-ranging practical relevance, which enables students to link theoretical findings with problems from the corporate world, should also be highlighted."



https://www.th-koeln.de/hochschule/hochschulpreis-gueterverkehr-und-logistik-fuer-die-th-koeln_80130.php

08.01.2024

Logistics team

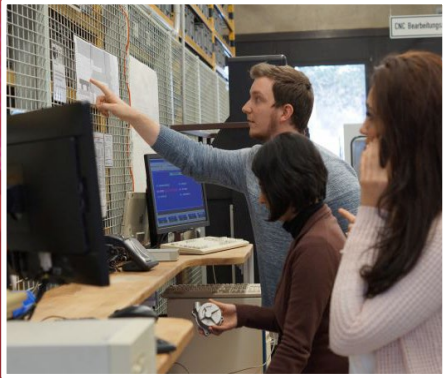
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Seite 6

Technology
Arts Sciences
TH Köln

The logistics team manages two programs ...



Bachelor's program
Logistics



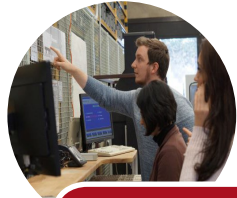
Logistics team



Master's program
**Supply Chain and
Operations Management**

... and is in constant exchange with the industry.

The degree programs at a glance



Bachelor's program Logistics

**High
practice orientation**
through

- a practical project (5th Semester),
- an internship semester (6th Semester),
- the bachelor's thesis should preferably be written in cooperation with a company ,
- inclusion of companies in teaching

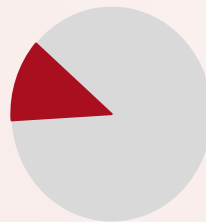
*"I forget what I was taught.
I only remember what I
have learnt."*

Patrick White (1915)

Internationality through

- logistics-oriented foreign language courses (Bachelor)
- courses in English (Bachelor and Master)
- admission requirement level B2 in English (Master)

Learning effects of teaching methods



Listening
(10%)



Seeing
(25%)



Experiencing
(80%)

by focusing on the expertise

Modern didactic
teaching methods

Importance of soft skills

Master's program

Supply Chain and Operations Management



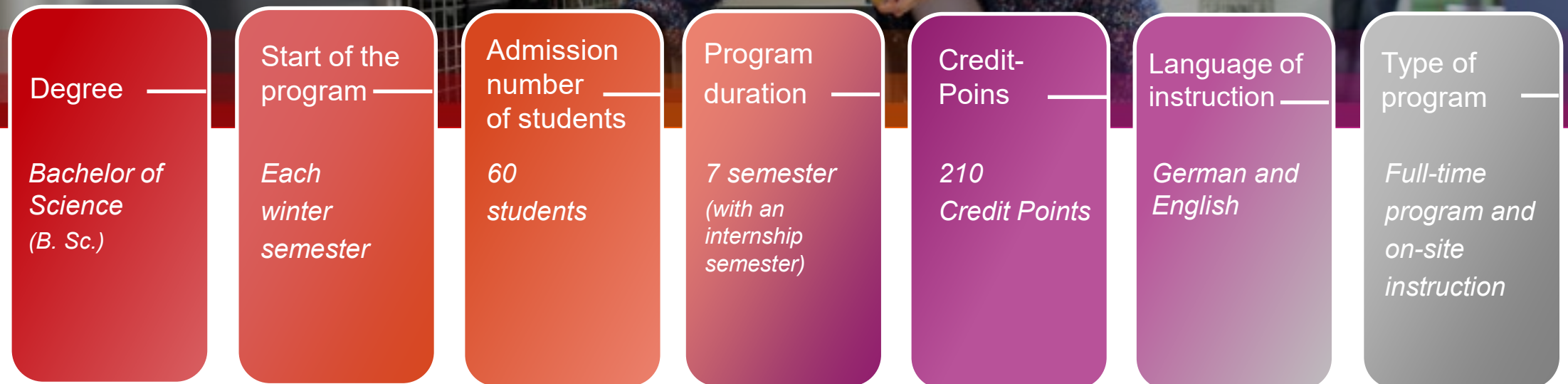
**High
research orientation**
through

- pro-seminar research methods (1st Semester),
- a research project (2nd Semester),
- the master's thesis (3rd Sem.) deals with a current research question and examines it based on scientific standards (also possible in cooperation with a company),
- inclusion of companies in teaching

The Bachelor's degree Logistics

An interdisciplinary course of the Faculty of Business, Economics and Law
and the Faculty of Automotive Systems and Production

The bachelor's program integrates current and „timeless“ contents on logistics and supply chain management



The Master's degree Supply Chain and Operations Management

An interdisciplinary course of the Faculty of Business, Economics and Law
and the Faculty of Automotive Systems and Production

Based on the relevant previous knowledge, the professional and methodical competence is intensified and extended in the Master's program

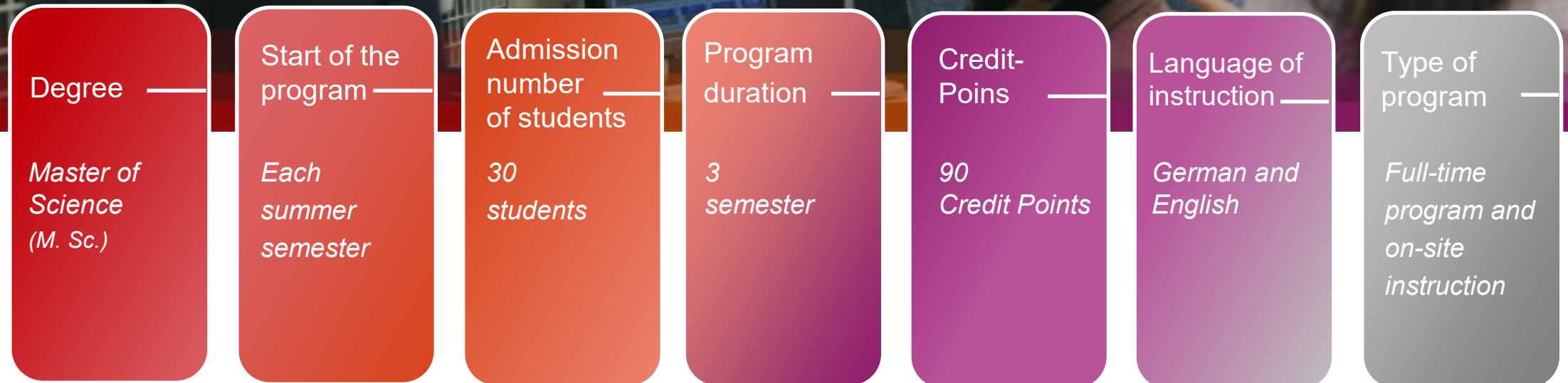


Foto: TH Köln

The Bachelor's degree Business Administration

An course of the Faculty of Business, Economics and Law

The bachelor's program focus on current and „timeless“ contents on logistics and supply chain management

Degree

*Bachelor of
Science
(B. Sc.)*

Start of the
program

*Summer and
winter
semester*

Admission
number
of students

*Approx. 130
Students per
semester*

Program
duration

*6 semester
or
7 semester
(with an
internship
semester)*

Credit-
Poins

*180 CP
or
210 CP
(with an
internship
semester)*

Language of
instruction

German

Type of
program

*Full-time
program and
on-site
instruction*

Foto: TH Köln

The Bachelor's degree Production and Logistics (Industrial Engineering)

A study programme of the Faculty of Vehicle Systems and Production

Students of the Bachelor's degree programme Production and Logistics dedicate themselves to several disciplines at the same time - mechanical engineering, production, logistics and business administration.

Degree

*Bachelor of
Engineering
(B. Eng.)*

Start of the
program

*Each
winter
semester*

Admission
number
of students

*120
Students per
semester*

Program
duration

*7
semester*

Credit-
Points

210 ECTS

Language of
instruction

German

Type of
program

*Full-time
program and
on-site
instruction*

Foto: TH Köln

Cooperation opportunities



**Guest lectures,
case studies**



Excursions



**Practical projects
(5th Semester)**



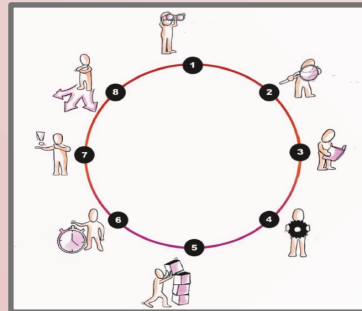
**Bachelor's or
Master's thesis**



**Internships
(6th Semester)**



Student workers



Research projects



**Topic evenings,
symposiums,
conferences**

Cooperation can be realized on a case-by-case basis or based on a long-term agreement.

Cooperation opportunities - descriptions

Practical projects (5th Semester)

Realization of a practice-oriented task within a team

Result: written documentation (10 – 15 pages per participant) + presentation

Scope: 12 ECTS per participant (approx. 360 h per participant)

Group size: 2 – 4 students

Duration: max. 6 months

Internship (6th Semester)

Skills, that are acquired at university, can be reflected and applied in a company.

Result: internship report (min. 20 pages)

Extent: 30 ECTS

Duration: 22 weeks

Topic evenings, symposiums, conferences

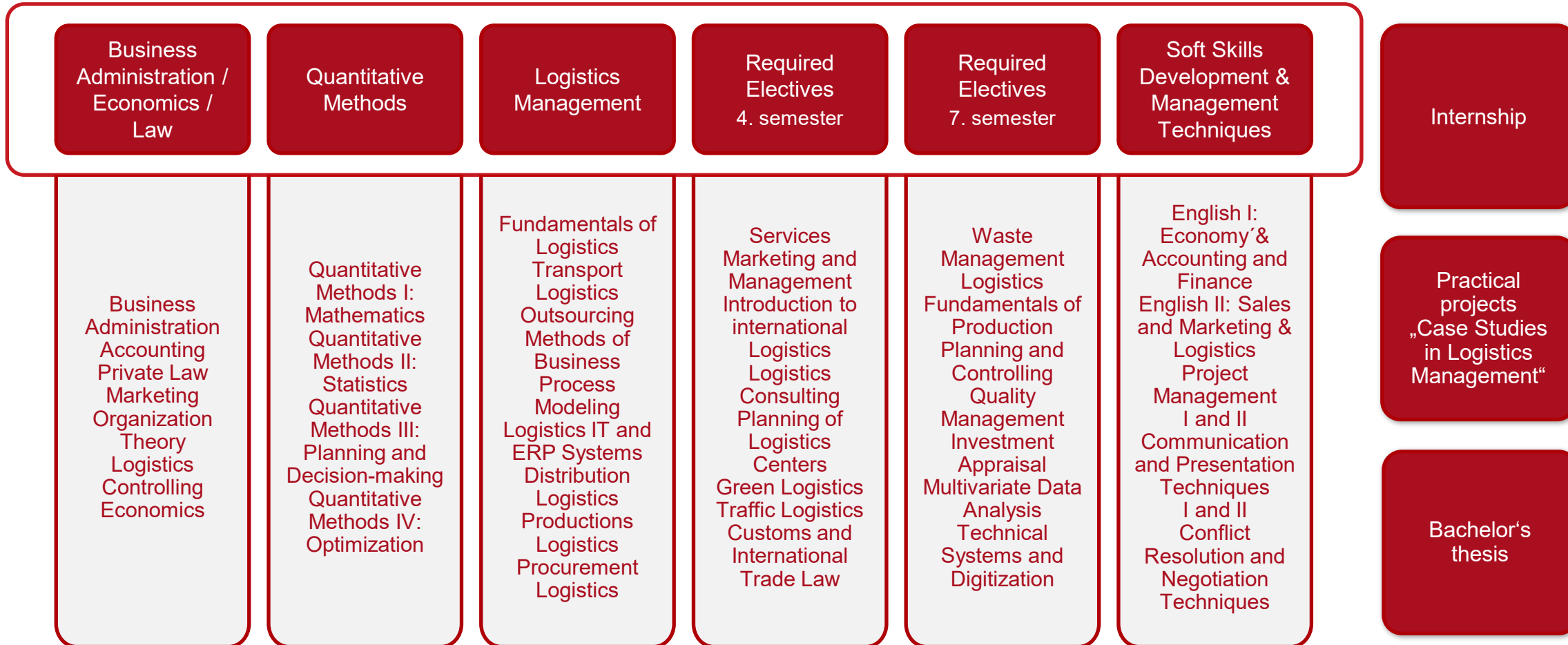
Subject-specific and personal exchange between science, economy, chambers, organizations and municipalities

For example: **VISION.LOGISTIK.** in cooperation with the „Cologne Chamber of Commerce and Industry“ (IHK zu Köln) and the expert advice by „HERZIG Marketing Kommunikation GmbH“

<http://www.vision-logistik.de/>

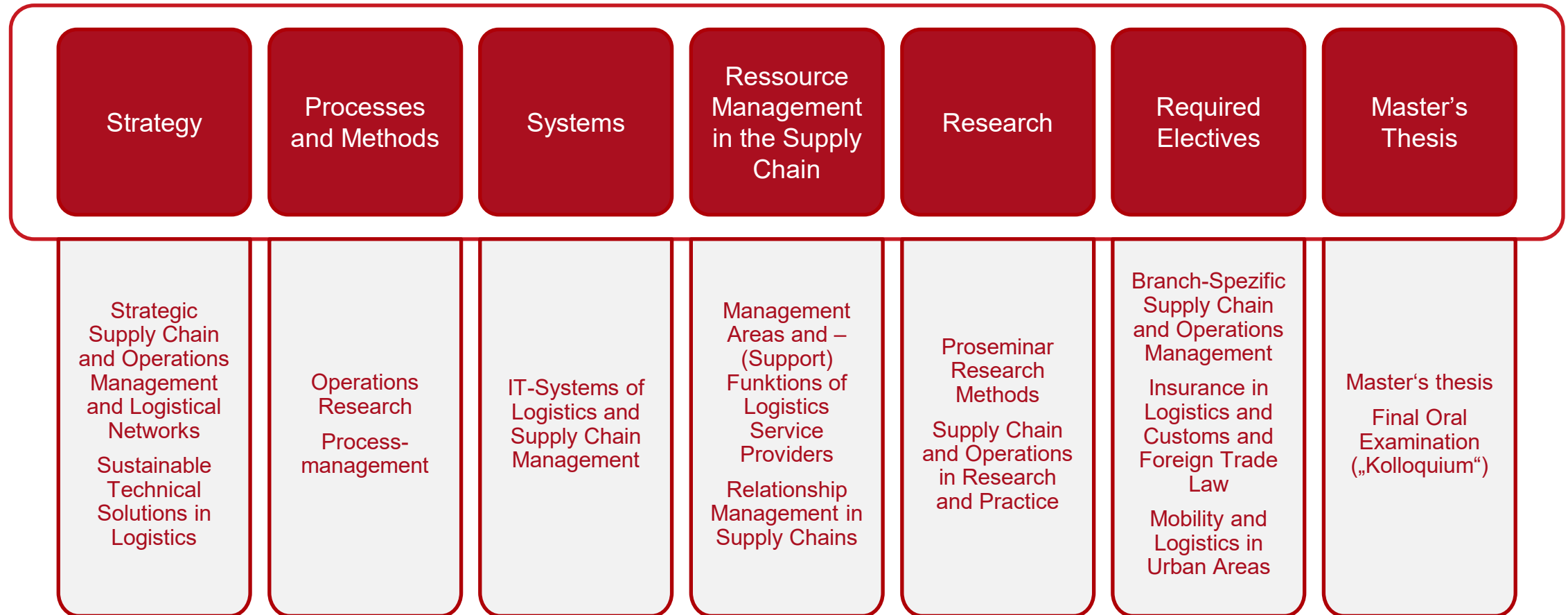
Bachelor's curriculum (PO2)

Logistics B.Sc.



Master's Curriculum

Supply Chain and Operations Management M.Sc.



Bachelor curriculum – Business Administration

Betriebswirtschaftslehre B.Sc.

Modulbezeichnung	MP W/P	1. Sem.		2. Sem.		3. Sem.		4. Sem.		5. Sem.		6. Sem.		Σ SWS	Σ CP
		SWS	CP	SWS	CP	SWS	CP	SWS	CP	SWS	CP	SWS	CP		
Module des ersten Semesters															
Grundlagen der BWL	P1	4	6												
Logistik- und Produktionsmanagement	P1	4	6												
Consulting & Information Systems	P1	4	6												
Wirtschaftsprivatrecht	P1	4	6												
QM I	P1	4	6												
Module des zweiten Semesters															
QM II	P1			4	6										
Unternehmensrecht und Steuern	P1			4	6										
Steuern	P1			4	6										
Grundlagen des Rechnungswesens	P1			4	6										
Mikroökonomie	P1			4	6										
Module des dritten Semesters															
Internes Rechnungswesen	P1					4	6								
Externes Rechnungswesen	P1					4	6								
Makroökonomie	P1					4	6								
QM III	P1					4	6								
Grundlagen des Marketings	P1					4	6								
Module des vierten Semesters															
Finanz- und Investitionsmanagement	P1							4	6						
Unternehmensführung I: Organisation und Planung	P1							4	6						
Unternehmensführung II: Führung und Ethik	P1							4	6						
Personalmanagement und Arbeitsrecht	P1							4	6						

P = Pflichtmodul; W = Wahlpflichtmodul; MP = Anzahl Modulprüfungen; CP = Credit Points

Focus in the 5th and 6th semester

In addition to the mandatory subjects, two elective subjects must be taken

Mandatory subjects	Elective subjects
Transport logistics	Logistics consulting
Planning of logistics centres	Logistics controlling
	Marketing for service providers in logistics
	Outsourcing

Bachelor curriculum - Production and Logistics

Anlage 1: Studienverlaufsplan

Semester	1.	2.	3.	4.	5.	6.	7.
Leistungspunkte	31	30	30	30	31	30	28
Pflichtmodule							
English for Production Engineering and Logistics	5						
Industriebetriebswirtschaftslehre	5						
Konstruktionslehre I	5						
Ingenieurmathematik I	5						
Technische Mechanik I	5						
Informationstechnologie	5						
Grundlagen Kosten- und Investitionsrechnung		5					
Grundlagen Logistik		5					
Ingenieurmathematik II		5					
Physik I		5					
Steuerungstechnik		5					
Werkstoffkunde I		5					
Betriebsorganisation			5				
Produktionscontrolling			5				
Fertigungsverfahren			5				
Grundlagen Produktionsplanung und -steuerung			5				
Projektmanagement I			5				
Statistik			5				
Fertigungsmittel				5			
Qualitätsmanagement					5		



Praxisphasen							
Projekt I (Interdisziplinäres Projekt)							5
Projekt II (Individuelles Projekt)							5
Praxissemester					30		
Erstsemesterprojektwoche (1. Teilleistung Soft Skills)	1						
Interdisziplinäre Projektwoche (2. Teilleistung Soft Skills)						1	

Wahlbereich							
Wahlpflichtmodule Produktionstechnik und Logistik					15	10	
Freie Wahlmodule					10	15	
Wahlpflichtmodul Soft Skills (3. Teilleistung Soft Skills)							3

Bachelorarbeit exkl. Kolloquium							12
Kolloquium							3
Gesamtsumme							210

Cooperation opportunities - timetable

	2024												2025												2026														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
Guest lectures, Case Studies Bachelor & Master	4 - 6 pieces 2. u. 4. Sem			6 - 9 pieces 1., 3., 5. u. 7. Sem			4 - 6 pieces 2. u. 4. Sem			6 - 9 pieces 1., 3., 5. u. 7. Sem			4 - 6 pieces 2. u. 4. Sem			6 - 9 pieces 1., 3., 5. u. 7. Sem			4 - 6 pieces 2. u. 4. Sem																				
Excursions Bachelor & Master																																							
Practise projects (max. 6 months) Bachelor				15 projects 5. Sem						15 projects 5. Sem												15 projects 5. Sem																	
Internship (22 weeks) Bachelor				60 places 6. Sem						60 places 6. Sem						60 places 6. Sem									60 places 6. Sem														
Bachelor thesis (max. 13 weeks)				60 theses 7. Sem						60 theses 7. Sem						60 theses 7. Sem									60 theses 7. Sem														
Research projects Master				5 - 10 subjects 2. Sem						5 - 10 subjects 2. Sem						5 - 10 subjects 2. Sem									5 - 10 subjects 2. Sem														
Master thesis (max. 5 months)				30 theses 3. Sem						30 theses 3. Sem						30 theses 3. Sem									30 theses 3. Sem														
Student workers																																							
Topic evenings, Symposiums, Conferences																																							

Legend:	
	Intended period in the curriculum
	Optional/individual agreement
e.g. 2 - 3	amount (expected)

Thank you for your attention and your interest in the field of logistics at TH Köln.



Questions?
Contact us.



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Industrial Cooperation Director
Department of Logistics

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