

„Friedrich List“ Faculty of Transport and Traffic Science

Prof. Pascal Kerschke

Welcome to Transportation Economics

Freshmen welcome and notes

Dresden, 05.10.2023

Number of the Day

47 **Freshmen**
in Transportation Economics

Structure of the Study Program

Structure of the Study Program

Our Common Goal: Your Successful Study Program Completion

- You will be able to identify, analyze and solve problems relating to transportation economics.
- In professional practice, you can take on diverse and complex tasks within the scope of managerial activities, e.g.
 - in the field of mobility, transport, logistics and data analysis
 - in national and international organizations
 - in public administrations, associations, politics and policy consulting as well as research and teaching institutions
- You can start a doctorate.



Structure of the Study Program

1st Semester

2nd Semester

3rd Semester*

4th Semester

5

10

15

20

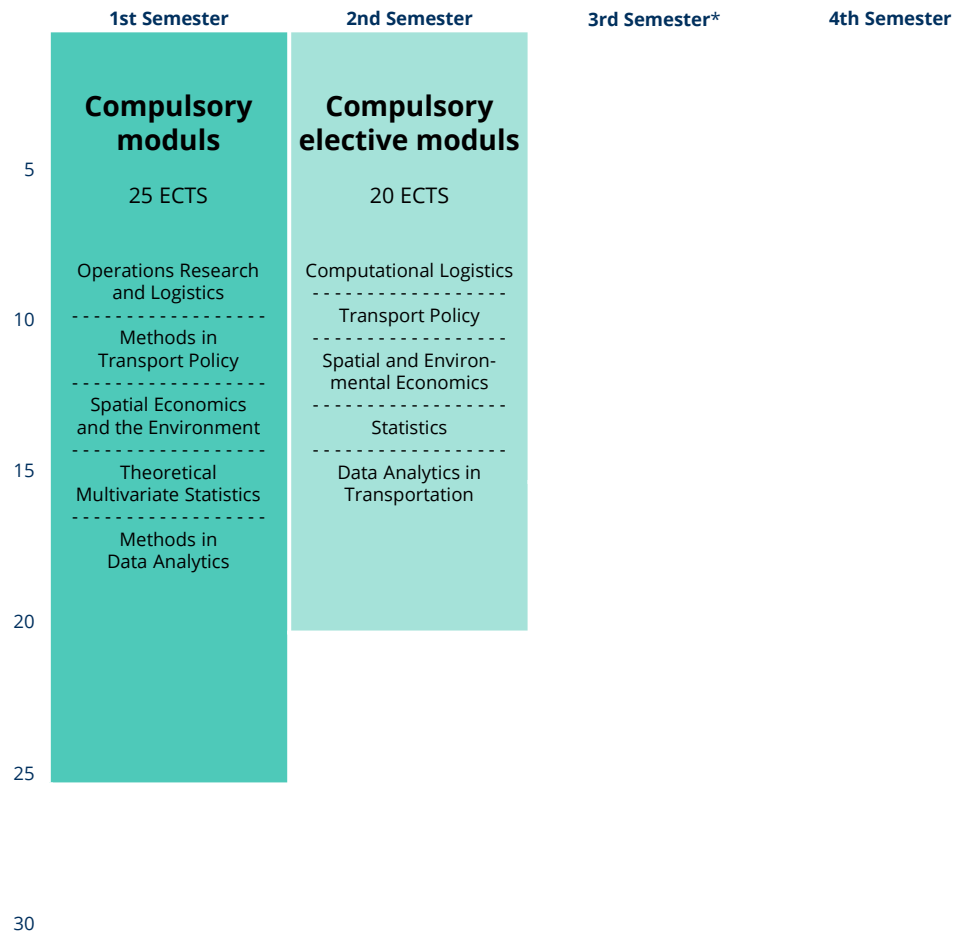
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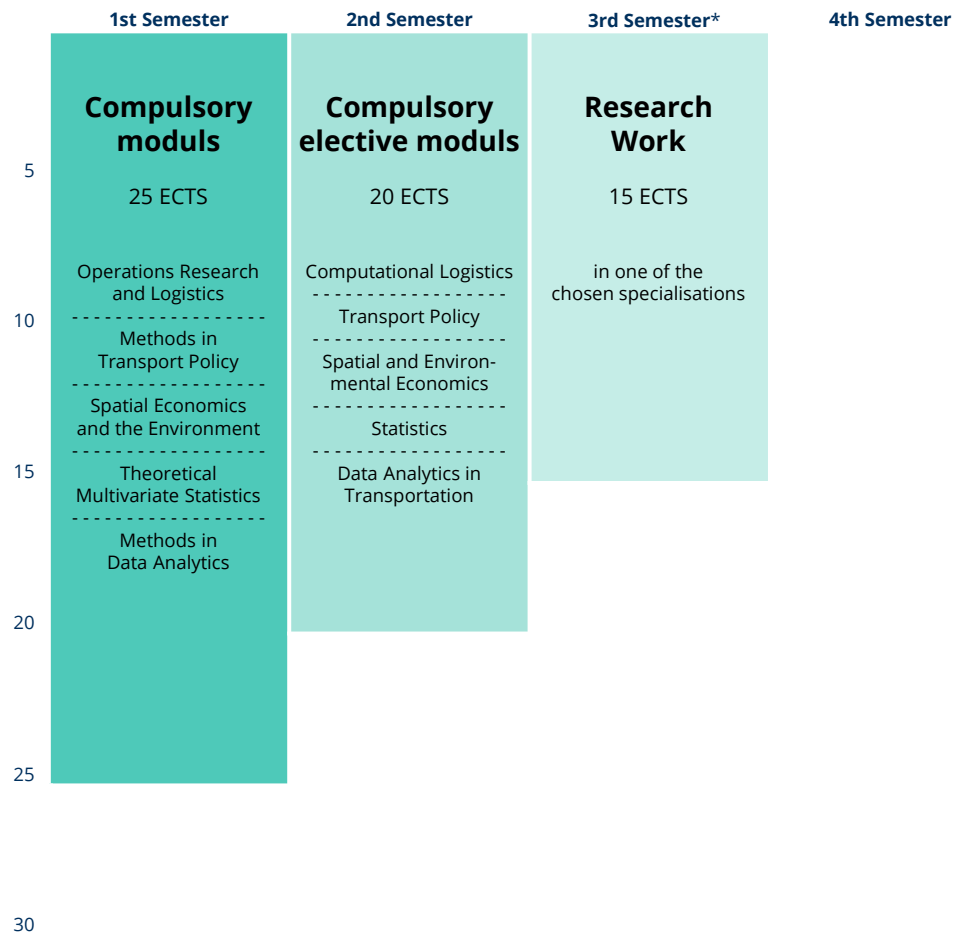
Structure of the Study Program



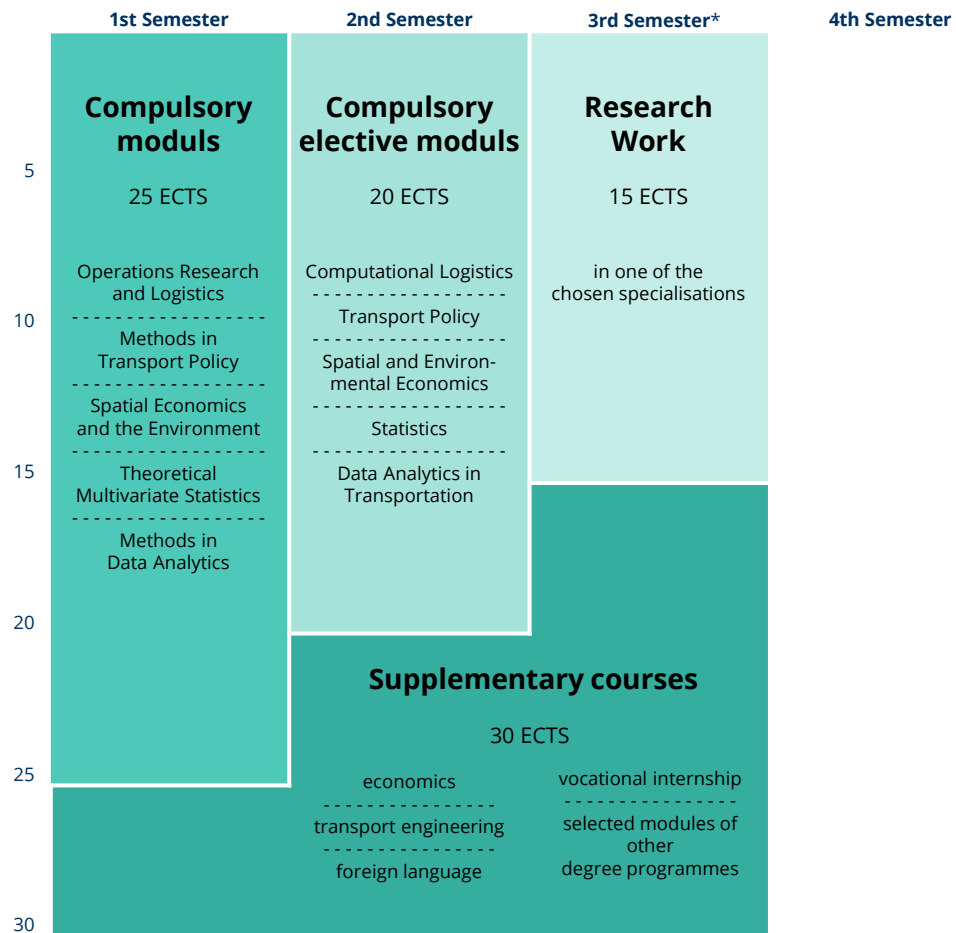
Structure of the Study Program



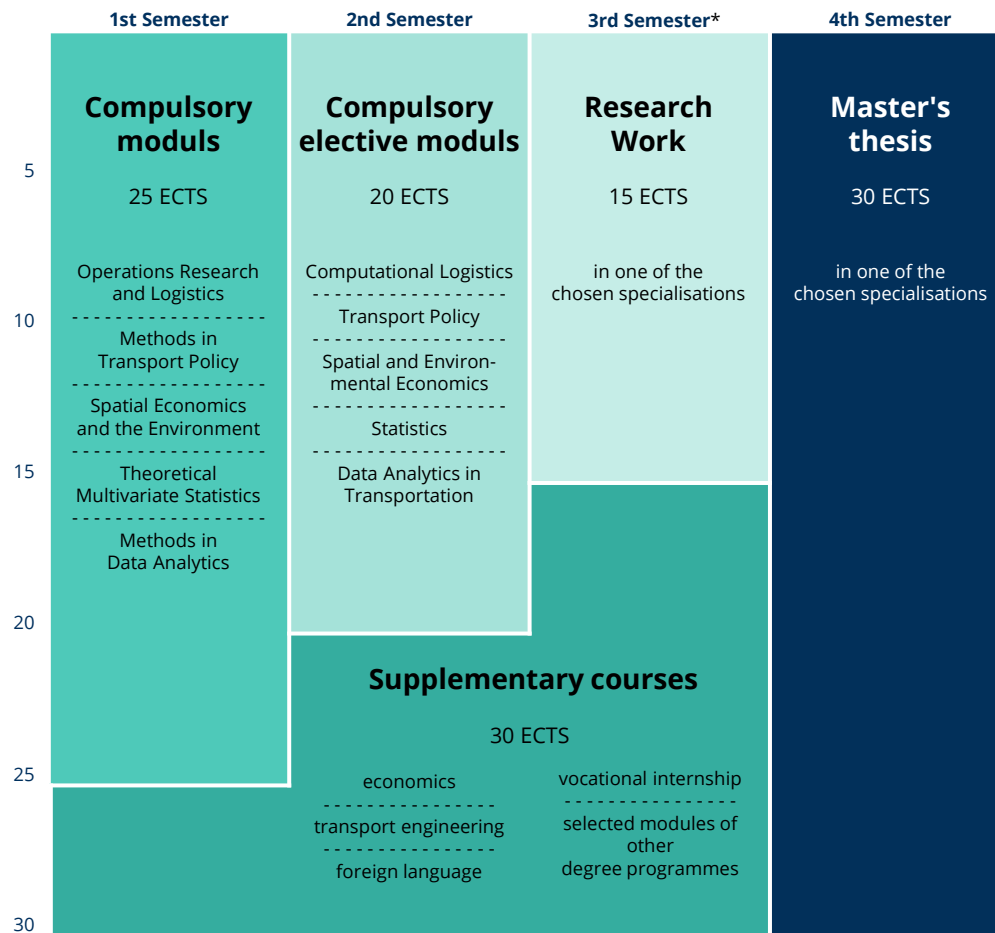
Structure of the Study Program



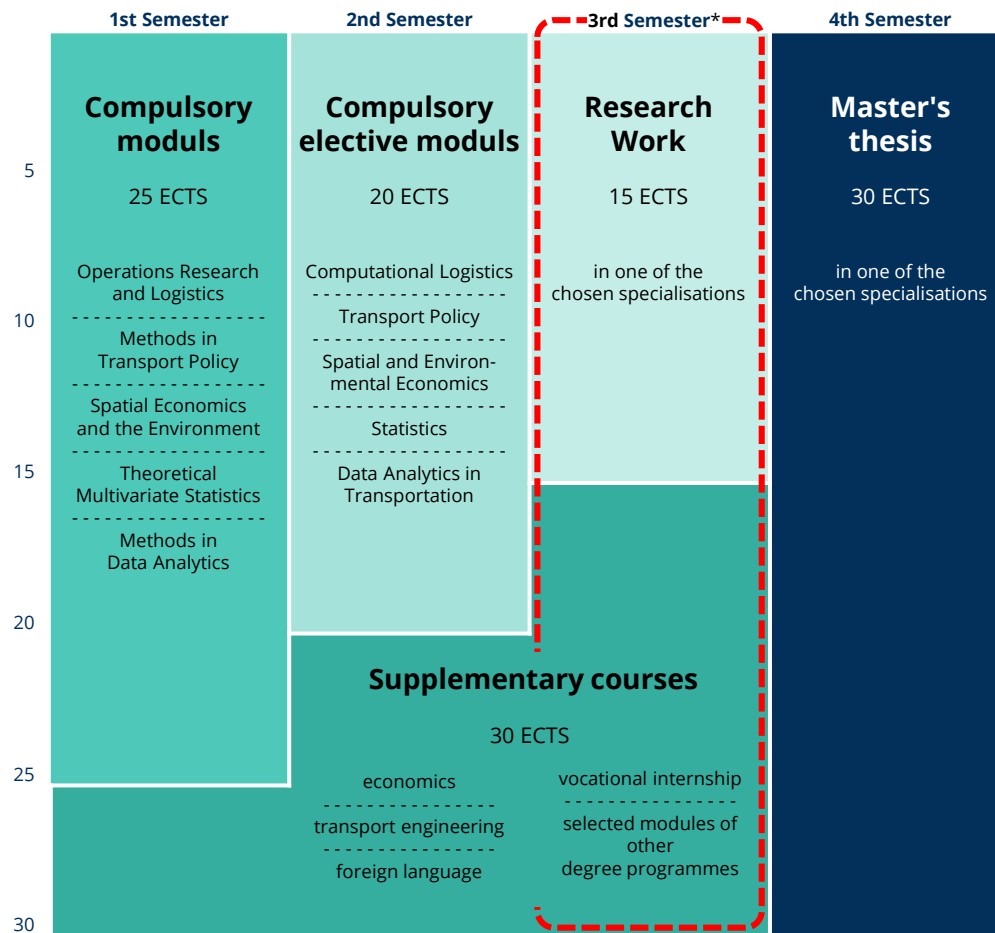
Structure of the Study Program



Structure of the Study Program



Structure of the Study Program



***3rd Semester**
Mobility window
for studying abroad

Structure of the Study Program

Content of a module

Module

Lecture

Exercise / Tutorial

Practical course

Lecture on a specific topic.

- Active participation due to the family size of the lectures.
- Ask questions! Questions are welcome!
- Please prepare well before and after the lecture!

Learning material is practiced, consolidated and deepened.

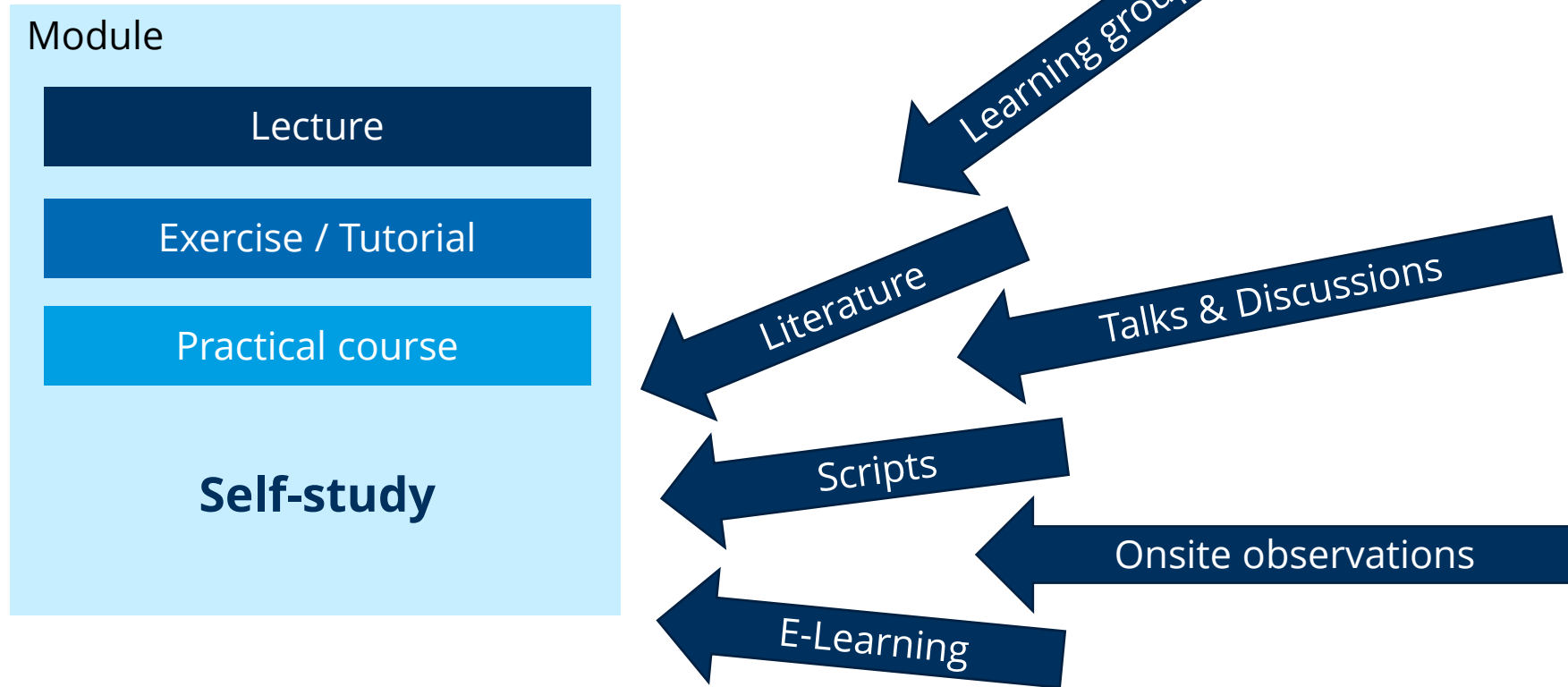
- Prepare and use!
- Ask questions and work together!

Practical application of knowledge.

- Prepare internships!
- Ask questions and work together!

Structure of the Study Program

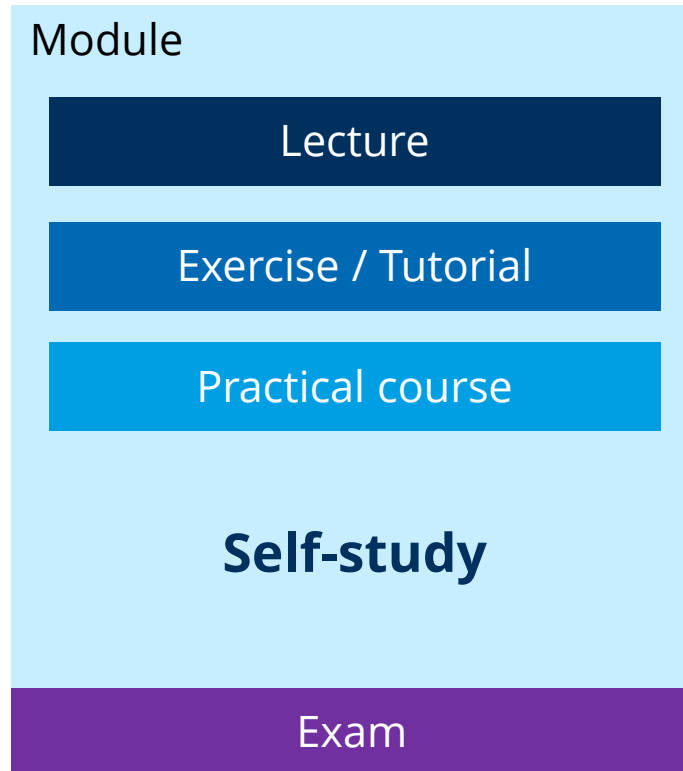
Content of a module



Learning continuously!

Structure of the Study Program

Content of a module



Registration necessary! Observe deadlines.

<https://tu-dresden.de/bu/verkehr/studium/pruefungsamt/pruefungstermine-einschreibung>

Compensation for disadvantages possible.

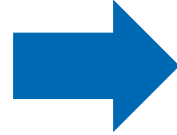
<https://tu-dresden.de/tu-dresden/organisation/gremien-und-beauftragte/beauftragte/bfsb/nachteilsausgleich>

All information at the examination office:

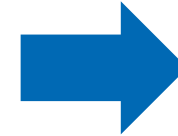
<https://tu-dresden.de/bu/verkehr/studium/pruefungsamt>

Structure of the Study Program

Which modules in the semester?
Study schedule

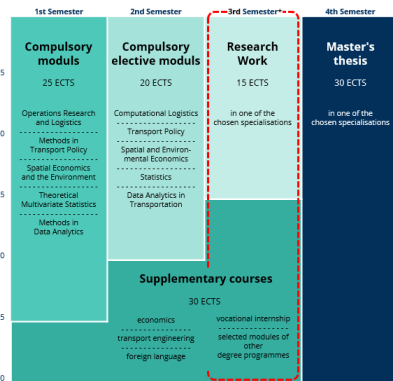


When are the courses?
Timetable



When which topic?
OPAL courses of the teachers

Modulnummer	Modulname	1. Semester VU/S/PS/ST	2. Semester VU/S/PS/ST	3. Semester VU/S/PS/ST	4. Semester VU/S/PS/ST	5. Semester VU/S/PS/ST	6. Semester (M) VU/S/PS/ST	LP
Pflichtbereich								
VW-WW-FF01	Lineare Algebra im wirtschaftswissenschaftlichen Kontext	2/2/0/0/0 PL						5
VW-WW-FF02	Analysis im wirtschaftswissenschaftlichen Kontext		2/0/0/0/0 PL					5
VW-WW-FF03	Deskriptive Statistik		2/0/0/0/0 PL					5
VW-WW-FF04	Induktive Statistik			2/2/0/0/0 PL				5
VW-WW-FF05	Programmierung im Verkehrswesen	2/2/0/0/0 PL						5
VW-WW-FF06	Statische Programmiersprachen			0/0/2/0/0/0 PL				5
VW-WW-FF11	Grundlagen des Rechnungswesens	3/3/0/0/0 PL						5
VW-WW-FF12	Einführung in die Betriebswirtschaftslehre und Organisation	3/1/0/0/0/1 PL						5
VW-WW-FF13	Jahresabschluss, Investition und Finanzierung		3/1/0/0/0/0 PL					5
VW-WW-FF14	Produktion und Logistik			2/2/0/0/0 PL				5
VW-WW-FF15	Marketing und Nachhaltige Unternehmensführung				3/0/0/0/0/0 PL			5
VW-WW-FF21	Grundlagen Volkswirtschaftslehre und Verkehrswirtschaft	4/1/0/0/0/0 PL						10
VW-WW-FF22	Einführung in die Mikroökonomie			2/1/0/0/0/0 PL				5
VW-WW-FF23	Einführung in die Mikroökonomie	3/1/0/0/0/1 PL						5
VW-WW-FF24	Strategie und Wettbewerb	3/1/0/0/0/1 PL						5
VW-WW-FF31	Prüfung im wirtschaftswissenschaftlichen Kontext			2/0/0/0/0/0 PL				5
VW-WW-FF32	Umwelt und Verkehr				2/2/0/0/0/0 PL			5
VW-WW-FF33	Wissenschaftliches Arbeiten und allgemeine					1/0/0/0/0/0 PL		5



<https://tu-dresden.de/bu/verkehr/studium>

WiSe 2023/24 (09.10. - 04.02.24) Stand: 28.08.2023

VvBW1-1-B
VW 1/19/2

ZEIT	Vorlesungen				
	MONTAG	DIENSTAG	MITTWOCH	DONNERSTAG	FRIDAY
1 DS				Dober VO Buchführung HSZ/AU/D/IIH	
1 WO				Dober VO Buchführung HSZ/AU/D/IIH	
2 DS		Schönberger VO Programmierung POT/5/1/H			
2 WO		Schönberger VO Programmierung POT/5/1/H			
3 DS	Hirtz VO Einführung Verkehrswirtschaft POT/8/1/H				
3 WO	Hirtz VO Einführung Verkehrswirtschaft POT/8/1/H				
4 DS		Thum VO Einführung VWL HSZ/AU/D/IIH	Feger VO Mathematik I HSZ/AU/D/IIH		Schäfer VO Kosten- und Leistungsrechnung HSZ/AU/D/IIH
4 WO		Thum VO Einführung VWL HSZ/AU/D/IIH	Feger VO Mathematik I HSZ/AU/D/IIH		Schäfer VO Kosten- und Leistungsrechnung HSZ/AU/D/IIH
5 DS	Blagow VO Organisation HSZ/0/5/E				Schäfer VO Kosten- und Leistungsrechnung HSZ/AU/D/IIH
5 WO	Blagow VO Organisation HSZ/0/5/E				Schäfer VO Kosten- und Leistungsrechnung HSZ/AU/D/IIH
6 DS	Scheffczyk VO Einführung BWL HSZ/AU/D/IIH				
6 WO	Scheffczyk VO Einführung BWL HSZ/AU/D/IIH				
7 DS		DWIG VF Verkehrsgeschichte POT/5/1/H			
7 WO		DWIG VF Verkehrsgeschichte POT/5/1/H			

<https://tu-dresden.de/bu/verkehr/studium/stundenplanung-lehrveranstaltungen/aktuelle-stundneplaene-fuer-das-wintersemester-2023-2024>

Vorlesungen

Als Vorlesungsbegleitendes Manuskript wird die Lektüre des folgenden Buches empfohlen:

- Eckehard Schnieder u. Lars Schnieder (2013) „Verkehrssicherheit – Maße und Modelle, Methoden und“

Das Buch ist für Studierende der TU Dresden über die SLUB kostenlos via Springerlink aus dem Netz der T

Aber: Vorlesungsfolien (online im OPAL) und persönliche Teilnahme sind zum erfolgreichen bestehen der K

Datum	Uhrzeit	Thema
11.04.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 01: Einführung und Einleitung
25.04.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 02: Wahrnehmung der Verkehrssicherheit
02.05.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 03: Begriffsbildung und Modellierung
09.05.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 04: Grundlegende Modellkonzepte
16.05.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 05: Statistiken der Verkehrssicherheit
23.05.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 06: Risikometrie
30.05.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 07: Modelle und Modellierung
13.06.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 08: Methoden und Techniken
20.06.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 09: Implementierungskonzepte
27.06.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 10: Implementierungsbeispiele
04.07.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 11: Technische Entwicklung
11.07.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 12: Organisation

<https://bildungsportal.sachsen.de/opal/auth/repository/catalog/115998721>

Structure of the Study Program

Important documents for the study

Examination regulations

- Defines the rules for the examinations and the master thesis

[PDF](#)

Study regulations

- describes how the study program is organized

[PDF](#)

Module descriptions

- Gives detailed information about all individual modules

[PDF](#)



- Goals and contents
- Form of teaching and examination
- Time required
- Contact

Number of module	Name of module	Lecturer
VW-TEc-MA-PFL 10	Operations Research and Logistics	Prof. Jörn Schönberger (joern.schoenberger@tu-dresden.de)
Qualification aim	The students know a variety of methods and models that can be used to solve diverse optimization problems. Furthermore, students are able to use optimization software to solve complex problems.	
Content	The content of the module includes the design and planning of transportation networks, transportation planning and program design, basic models of vehicle deployment planning, integrated planning of self-routing and subcontracting, and the design of freight rates.	
Teaching and learning methods	2 SWS lecture, 2 SWS practical and independent study.	
Requirements for participation	Basic undergraduate level knowledge of operations research is presupposed. The following literature is suitable for preparation: Ivanov, D.; Tsipoulanidis, A.; Schönberger, J.: Global Supply Chain and Operations Management - A Decision-Oriented Introduction to the Creation of Value, newest edition.	
Usability	The module is a compulsory module in the master's program Transportation Economics. It provides the prerequisite for the modules Decision Support in Transportation Logistics, Management of Public Transport Systems and Services, and Vocational Internship.	
Requirements for the award of credits	The credit points are awarded when the module examination is passed. The module examination consists of homework and practice assignments in the extent of 75 hours.	
Credit points and grades	5 credit points can be acquired through this module. The module grade corresponds to the grade of the examination performance.	
Frequency of module	The module is offered each academic year in the winter semester.	
Workload	The total workload is 150 hours.	
Duration of the module	The module lasts one semester.	

Structure of the Study Program

Module Guide Transportation Economics

[Full screen](#) | [Back to OPAL](#)

1st semester

Language = language of instruction (EN = English, DE = German), Description = description of the module

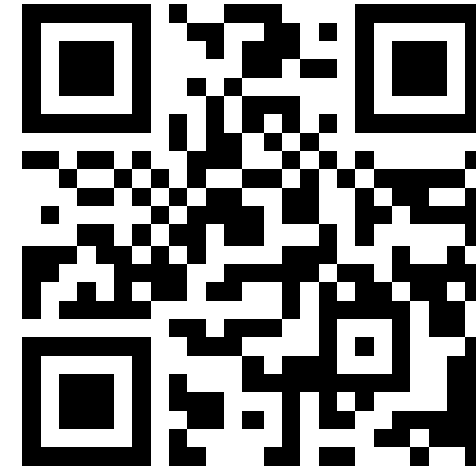
Number	Name	ETCS	Module responsible	Language	Description	Link (OPAL)
VW-TEc-MA-PFL 10	Operations Research and Logistics	5	Schönberger	EN	EN DE	Link
VW-TEc-MA-PFL 20	Methods in Transport Policy	5	Tscharaktschiew	EN	EN DE	Link
VW-TEc-MA-PFL 30	Spatial Economics and the Environment	5	Hirte	EN	EN DE	Link
VW-TEc-MA-PFL 40	Theoretical Multivariate Statistics	5	Okhrin	EN	EN DE	Link
VW-TEc-MA-PFL 50	Methods in Data Analytics	5	Kerschke	EN	EN DE	Link
Modules of the elective compulsory area of the module group Supplements		5	*			

2nd semester

Language = language of instruction (EN = English, DE = German), Description = description of the module

Number	Name	ETCS	Module responsible	Language	Description	Link
First module of the first chosen specialization		5		EN		
Second module of the first chosen specialization		5		EN		
First module of the second chosen specialization		5		EN		

Please register here:

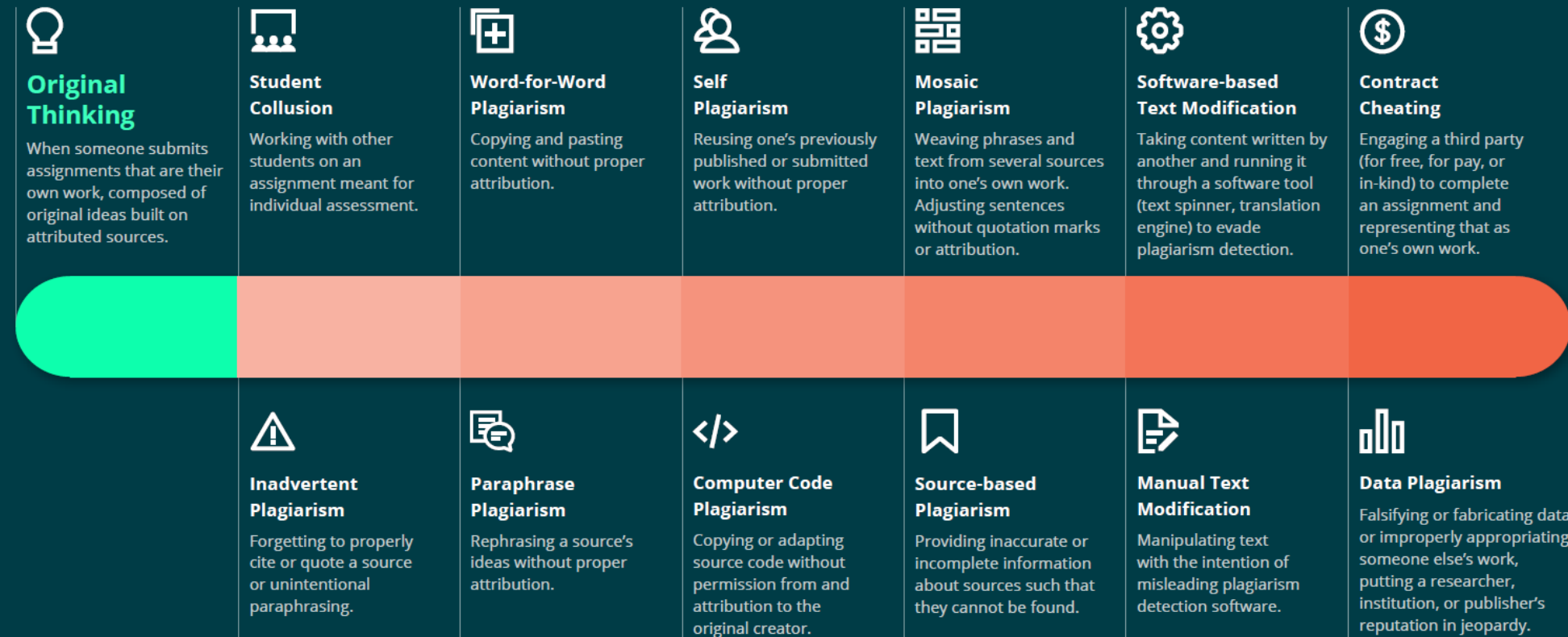


<https://tud.link/qwyl>

The Plagiarism Spectrum 2.0



The Plagiarism Spectrum 2.0 identifies twelve types of unoriginal work. Familiarity with traditional forms of plagiarism and emerging trends helps students develop original thinking skills and do their best original work.



How do we get started?

How do we get started?

1. Get an Overview – This week if possible

- Participate in the **ESE** (Freshmen orientation week)
- Put together your **timetable**
- Enroll in **OPAL courses**
- Look through **information material** and (some) **websites**

2. Courses

- Information about the procedure and examination in the first courses
- Actively attend lectures and exercises, prepare and follow up on them
- Form study groups, discuss together

3. Contacts

- **Making contacts:** finding friends, forming study groups, taking part in FSR (Student Council) events

Internet sources

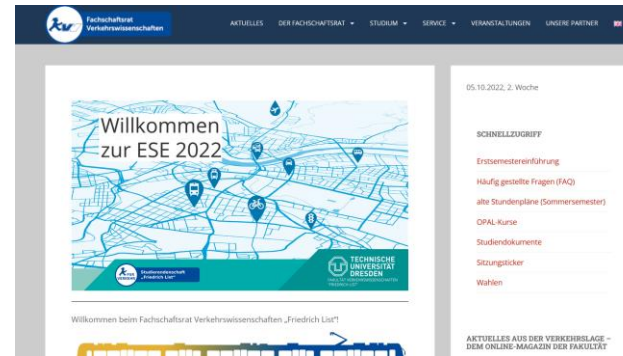
Faculty

www.tu-dresden.de/bu/verkehr



Student Council

www.fsr-verkehr.de



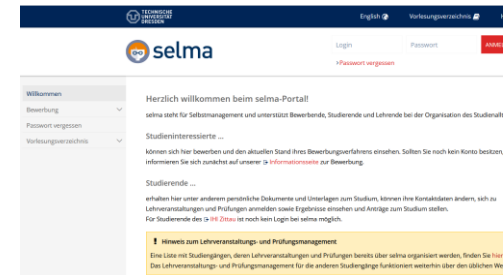
University Library

www.slub-dresden.de



Learning Platform OPAL

<https://bildungsportal.sachsen.de/opal/login>



Selma-Portal

selma.tu-dresden.de

If there are Questions or Problems: No one is alone!



Kommilitonen und Freunde

*Fellow students
and friends*



Studierende des FSR

*Students of the
student council*



Fr. Lindner im Prüfungsamt

*Mrs. Lindner in the
Examination Office*



Beratung im Studierendenrat

*Advice in the
TUD-Students Council*



Beratung des Studentenwerks

*Advice from the
Student Union*



Studienberatung des SCS

*Study Advice in the
Service Center Studium*



International Office

*Advice for the
international students*

Foto: REDEREI / Benjamin Jenak

If there are Questions or Problems: No one is alone!

Examination Office

Mrs. Katrin Lindner
Mrs. Sandy Hildebrandt



The examination office is located in the Hülßebau (HÜL) building, on the 1st floor, room HÜL/N109.

Office hours (on site) for *German-speaking* students:

- Tuesdays 9:00 am – 11:00 am and 1:00 pm – 5:30 pm
- Thursdays 9:00 am – 11:00 am and 1:00 pm – 3:00 pm

Office hours (on site) for *English-speaking* students:

- Thursdays 9:00 am – 10:00 am

Outside of these hours, you should better contact the examination office by email.

<https://tu-dresden.de/bu/verkehr/studium/pruefungsamt>



Foto: REDEREI / Benjamin Jenak

Does it fit?! Program (PASST?!-Programm)



Participation

Give your **consent**
for >>PASST?!<<
in selma



Check

An **anonymous check**
of your study progress
data will be made
regularly



Support

You will receive
individual advice
and **support offers**



- **"Early warning system" for difficult study paths with individual tips & tricks.**
- **Good service, highly recommended! Registration in Selma Portal required.**
- **Information:** <https://tu-dresden.de/studium/im-studium/beratung-und-service/zentrale-studienberatung/passt>

Good to know!

Hints & Tips

Learning languages at the TU Dresden

Languages on offer

Ancient Greek	Arabic	Chinese	German
English	Finnish	French	Italian
Japanese	Latin	Polish	Portuguese
Russian	Swedish	Spanish	Czech

**Foreign language courses can be included
as elective modules**
(also German and English)

Registration / Enrollment at the start of the semester

Attention: Places are limited!

Enrollment always
from April or
October via **OPAL**



**Im WiSe 23/24 from
01.10.2023**

**Start of classes from
16.10.2023**



German Courses for international Students

Basic and advanced Courses

- Understanding lectures better
- Give lectures in German
- Prepare exams

"German as a foreign language"

- for different language levels
- General German
- Subject-specific German

https://www.sprachausbildung.tu-dresden.de/sprachen/deutsch_als_fremdsprache/



Scientific Writing Workshop

THE WRITING CENTER OF TU DRESDEN

current offers

The **writing peer tutors** and **lecturers of the Writing Center** support students and lecturers in scientific writing and in the teaching of scientific work, among other things with **writing consultation**, **workshops** in courses and various further **education formats** - also during the lecture-free period.

more information and registration

- > for students
- > for lecturers
- > workshops for students
- > Continuing Education for lecturers

At the Writing Center of TU Dresden (SZD) you can find information and help concerning academic reading and writing. The SZD supports students and lecturers with offers such as

- planning and writing various study texts, such as protocols, seminar papers or theses
- and teaching academic writing in seminars/ lectures and supervision.

FOR STUDENTS



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From your first transcript or term paper to your final thesis: the Writing Center team is happy to provide advice and assistance throughout your studies

An overview of all offers for students as well as further information is listed below:

Writing Consultation



Corrections/Lecturing



workshops: online & offline



offers for studium generale



Infothek & Newsletter: Material and Tips



Room for Writing at the TextLab



Learning and Writing Groups



Long Night Against Procrastination



Writing Marathon



Qualification & Peer Learning



<https://tu-dresden.de/karriere/weiterbildung/zentrum-fuer-weiterbildung/schreibzentrum/fuer-studierende/index>

Some things you don't learn in college, but only in life

- **Acquire own working methods**
 - How do I **manage my time**?
 - How do I **structure my semester** so that I can still “breathe” during the exam period?
 - How do I acquire the necessary **MS Office skills** so that I can write good term papers and theses?
 - How do I **file documents** and find them again later?
 - How do I use and link my **email accounts**? How do I use a digital calendar?
 - What do I need to keep in mind when **writing letters/emails** to internship companies, supervisors or professors?
 - ...

Some things you don't learn in college, but only in life



- **Social commitment**

in committees, associations or interest groups
(FSR, "Listige Vereinigungen", traffic club, politics, ...)

- **Get to know the professional world**

Internship, student assistant, interest group

Summary

- Study requires a lot of independence, but is fun!
- If you have problems, get help in time!
- Network with each other!  

Have fun & good luck in your studies!