





"Friedrich List" Faculty of Transport and Traffic Science Dipl.-Ing. Kati Ahnert

Welcome to Air Transport and Logistics Freshmen welcome and notes

Dresden, 05.10.2023

Number of the Day

Freshmen in Air Transport and Logistics













CP 1st semester VW-ATL-01 (Prof. Schönberger) Operations Research and Logistics VW-ATL-02 (Dr. Preis) Material Flow Analysis and Optimization 10 VW-ATL-03 (Dr. Treiber) Methods in Transport **Economics and Statistics** 15 VW-ATL-05 (Prof. Fricke) 20 Flight Performance and Aerodynamics 25

2nd semester 3rd semester 4th semester







CP	1st semester	2nd semester
5	VW-ATL-01 (<i>Prof. Schönberger</i>) Operations Research and Logistics	VW-ATL-04 (<i>Dr. Preis</i>) Decision Making in Enterprise Logistics
10	VW-ATL-02 (Dr. Preis) Material Flow Analysis and Optimization	VW-ATL-07 (Prof. Fricke)
15	VW-ATL-03 (Dr. Treiber) Methods in Transport Economics and Statistics	Air Traffic and Airport Operations
20	VW-ATL-05 (Prof. Fricke) Flight Performance and Aerodynamics	
25		

3rd semester 4th semester







CP	1st semester	1st semester 2nd semester 3rd semester		4th semester
5	VW-ATL-01 (Prof. Schönberger) Operations Research and Logistics	VW-ATL-04 (<i>Dr. Preis</i>) Decision Making in Enterprise Logistics	VW-ATL-06 (<i>Prof. Fricke</i>) Flight Planning and Aircraft Operations	
10	VW-ATL-02 (<i>Dr. Preis</i>) Material Flow Analysis and Optimization	VW-ATL-07 (<i>Prof. Fricke</i>)	VW-ATL-08 (<i>Prof. Fricke</i>)	
15	VW-ATL-03 (Dr. Treiber) Methods in Transport Economics and Statistics	Air Traffic and Airport Operations	CNS and tactical ATM	
20	VW-ATL-05 (<i>Prof. Fricke</i>) Flight Performance and Aerodynamics			
25				







CP	1st semester	2nd semester	3rd semester	4th semester
5	VW-ATL-01 (Prof. Schönberger) Operations Research and Logistics	VW-ATL-04 (<i>Dr. Preis</i>) Decision Making in Enterprise Logistics	VW-ATL-06 (<i>Prof. Fricke</i>) Flight Planning and Aircraft Operations	
10	vw-ATL-02 (<i>Dr. Preis</i>) Material Flow Analysis and Optimization	VW-ATL-07 (<i>Prof. Fricke</i>) Air Traffic and Airport	VW-ATL-08 (<i>Prof. Fricke</i>)	
15	VW-ATL-03 (Dr. Treiber) Methods in Transport Economics and Statistics	Operations	CNS and tactical ATM	
20 25	VW-ATL-05 (<i>Prof. Fricke</i>) Flight Performance and Aerodynamics	VW-ATL-20 to VW-ATL-32 Advanced elective modules: • each equals 5 CP • required amount of 15 CP: choose at least 3 modules		







CP	1st semester	2nd semester	ester 3rd semester	
5	VW-ATL-01 (<i>Prof. Schönberger</i>) Operations Research and Logistics	VW-ATL-04 (<i>Dr. Preis</i>) Decision Making in Enterprise Logistics	VW-ATL-06 (<i>Prof. Fricke</i>) Flight Planning and Aircraft Operations	
10	vw-ATL-02 (Dr. Preis) Material Flow Analysis and Optimization	VW-ATL-07 (<i>Prof. Fricke</i>) VW-ATL-08 (<i>Prof. Frick</i>		
15	VW-ATL-03 (<i>Dr. Treiber</i>) Methods in Transport Economics and Statistics	Air Traffic and Airport Operations	CNS and tactical ATM	
20	VW-ATL-05 (<i>Prof. Fricke</i>) Flight Performance and Aerodynamics	 VW-ATL-20 to VW-ATL-32 Advanced elective modules: each equals 5 CP required amount of 15 CP: choose at least 3 modules 	VW-ATL-51 to VW-ATL81	
25			Free elective modules:	
30			each equals 5 CPchoose modules up to 20	







CP	1st semester	2nd semester	3rd semester	4th semester
5	VW-ATL-01 (Prof. Schönberger) Operations Research and Logistics	VW-ATL-04 (<i>Dr. Preis</i>) Decision Making in Enterprise Logistics	VW-ATL-06 (<i>Prof. Fricke</i>) Flight Planning and Aircraft Operations	
10	VW-ATL-02 (Dr. Preis) Material Flow Analysis and Optimization	VW-ATL-07 (Prof. Fricke)	VW-ATL-08 (<i>Prof. Fricke</i>)	
15	VW-ATL-03 (Dr. Treiber) Methods in Transport Economics and Statistics	Air Traffic and Airport Operations	CNS and tactical ATM	Master's thesis *4th Semester
20	VW-ATL-05 (<i>Prof. Fricke</i>) Flight Performance and	VW-ATL-20 to VW-ATL-32 Advanced elective modules: • each equals 5 CP		Mobility window for studying abroad
25	Aerodynamics	 required amount of 15 CP: choose at least 3 modules 	VW-ATL-51 to VW-ATL81 Free elective modules:	
30			each equals 5 CPchoose modules up to 20	







Content of a 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.

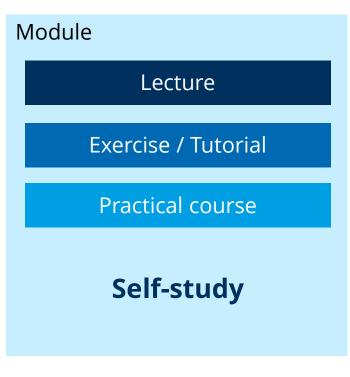
- Prepare internships!
- → Ask questions and work together!

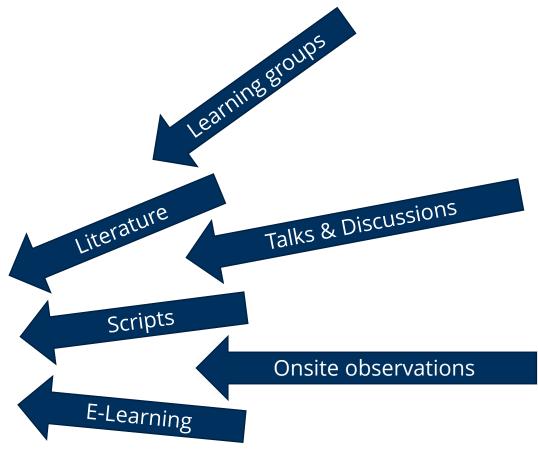






Content of a module





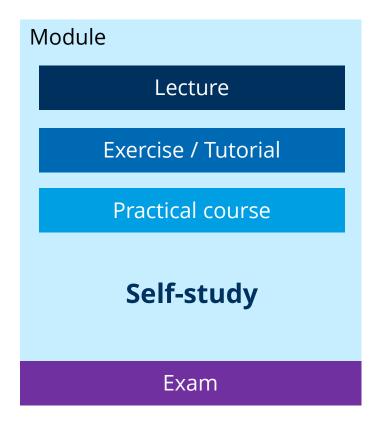
Learning continuously!







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







Which modules in the semester? Study schedule



When are the courses? Timetable



When which topic? OPAL courses of the teachers

Modulnummer	Modulname	1. Semester	2. Semester	3. Semester	4. Semester (M)	LP
Modulnummer	Modulname	V/Ü/S/P	V/Ü/S/P	V/Ü/S/P		1
Pflichtbereich						
VW-ATL-01	Operations Research and Logistics	2/2/0/0 PL				5
VW-ATL-02	Material Flow Analysis and Optimization	2/2/0/0 PL				-
VW-ATL-03	Methods in Transportation Econometrics and Statistics	2/2/0/0 PL				ē
VW-ATL-04	Decision Making in Enterprise Logistics		2/2/0/0 PL			
VW-ATL-05	Flight Performance and Aerodynamics	7/1/0/0,5 PVL, PL				1
VW-ATL-06	Flight Planning and Aircraft Operations			4/0,5/0/0,5 PL		
VW-ATL-07	Air Traffic and Airport Operations		6/2/0/0 PL			10
VW-ATL-08	CNS and tactical ATM			6/1/0/1 PL		10
Wahlpflichtberei Es sind insgesamt	Module im Umfang von 35 Leistungspunkten					
	Es sind Module im Umfang	von mindestens 15 L		ählen.		
VW-ATL-20	Safety and Airline Management		3/1/0/0 PL			5
VW-ATL-21	Terminal Operations		3/1/0/0 PVL, PL			5
VW-ATL-22	Aircraft Engines		2/1/0/0 PL			-
VW-ATL-23	Helicopter Technology		2/0/0/0	2/0/0/0 pi		5

CP	1st semester	2nd semester	3rd semester	4th semester
5	VW-ATL-01 (Prof. Schönberger) Operations Research and Logistics	VW-ATL-04 (<i>Dr. Preis</i>) Decision Making in Enterprise Logistics	VW-ATL-06 (<i>Prof. Fricke</i>) Flight Planning and Aircraft Operations	
10	VW-ATL-02 (Dr. Preis) Material Flow Analysis and Optimization	VW-ATL-07 (Prof. Fricke)	VW-ATL-08 (Prof. Fricke)	
15	VW-ATL-03 (Dr. Treiber) Methods in Transport Economics and Statistics	Air Traffic and Airport Operations	CNS and tactical ATM	Master's thesis
20	VW-ATL-05 (Prof. Fricke) Flight Performance and	VW-ATL-20 to VW-ATL-32 Advanced elective modules: • each equals 5 CP		
25	Aerodynamics	required amount of 15 CP: choose at least 3 modules	VW-ATL-51 to VW-ATL81 Free elective modules:	
30			each equals 5 CP choose modules up to 20	

WiSe 202	23/24 (09.10.23 - 04	.02.24) Stand: 28.08.2023				VWMLL-1-ATL VW 1/19/50
ZEIT	MONTAG	DIENSTAG	MITTW	осн .	DONNERSTAG	FREITAG
1. DS 1. WO 07:30 - 09:20 Uhr			Schönberger 00 Operations Resea POT/13/U	erch and Logistics*	Fricke VO Fundamentals of Aircraft Engines POT/151/H	
1. DS 2. WO 07:30 - 09:20 Uhr		Nachtigall VW Advanced Theory of Transportation Systems POT/151/H	UO Operations Research and Logistics*		Fricke VO Fundamentals of Aircraft Engines POT/151/H	
2. DS 1. + 2. WO 09:20 - 10:50 Uhr	Okhrin VW Theoretical Multivariate Statistics POT/106/U	Kerschke UW Methods in Data Analytics POT/361/H	Preis VO Material Flow Analysis and Optimization POT/13/U		Nachtigall u.a. ÜW Advanced Theory of Transportation Systems * POT/13/U	
3. DS 1. + 2. WO 11:10 - 12:40 Uhr	Nachtigall VW Advanced Theory of Transportation Systems POT/151/H	Michler WW Transportation Telematics Networks POT/112/H	Schönberger VO Operations Research and Logistics POT/81/H		Fricke VO Flight performance POT/06/H	Treiber UO Methods in Transp. Econometrics and Statistics POT/13/U
4. DS 1. + 2. WO 13:00 - 14:30 Uhr	Fricke VO Aerodynamics and Flight Characteristics POT/51/H	Schönberger UO Operations Research and Logistics* POT/13/U	Schulze VW Visual Perception and Lighting Engineering POT/06/H	Michler VW Transp. Telem. Networks POT/151/H	Fricke VO Aerodynamics and Flight Characteristics POT/51/H	Okhrin UW Theor. Multivariate Statistics POT/13/U
5. DS 1. + 2. WO 14:50 - 16:20 Uhr		Treiber VO Methods in Transportation Econometrics and Statistics POT/51/H	Preis ÜO Material Flow Analysis and Optimization POT/13/U		Nachtigall u.a. ÜW Advanced Theory of Transportation Systems * POT/05/H	
6. DS 1. + 2. WO 16:40 - 18:10 Uhr	Kerschke VW Methods in Data Analytics POT/361/H				Nachtigall u.a. UW Advanced Theory of Transportation Systems * POT/06/H	
7. DS 1. + 2. WO 18:30 - 20:00 Uhr			*) mehrfaches Ubungs multiple exercise off			

Vorlesungen

Als vorlesungsbegleitendes Manuskript wird die Lektüre des folgenden Buches empfohlen.

Eckehard Schnieder u. Lars Schnieder (2013) "Vorkehrssicherheit – Maße und Modelle, Methoden un
 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: Implementierungskonzente
27.06.2022	16:40 Uhr - 18:10 Uhr	Vorlesung 10: Investor
04.07.2022	16:40 Uhr - 18:10 Uhr	Vort
11 07 2022	40.40 10- 40.40 10-	

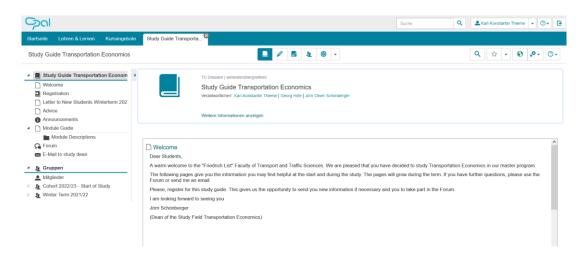
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Module Guide Transportation Economics

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 Supplements	re compulsory area of the module group	5		*		

2nd semester

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

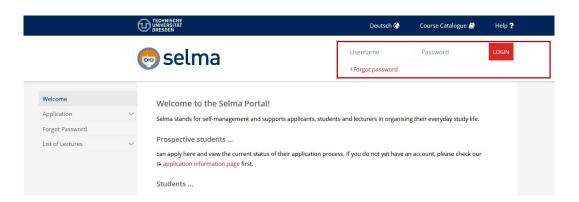
Number	Name	ETCS	Module responsible	Language	Description	Link
First module of the fi	irst chosen specialization	5		EN		
Second module of the	ne first chosen specialization	5		EN		
Firet modulo of the e	acond chasan spacialization	5		ENI		





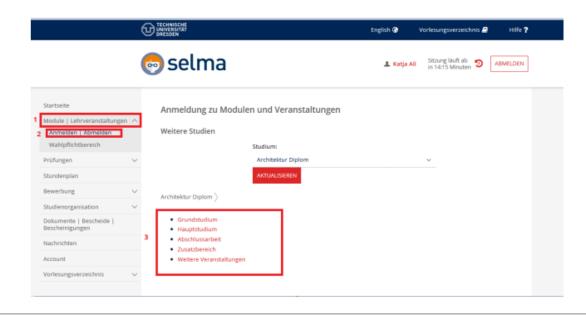






<u>Instructions for using the student portal "SELMA" for module and exam registration and deregistration:</u>

- Link to the portal: https://selma.tu-dresden.de
- Login: ZIH-Login with corresponding password
- Contact address: pruefungsmanagement.bu@tu-dresden.de or supervising examination office



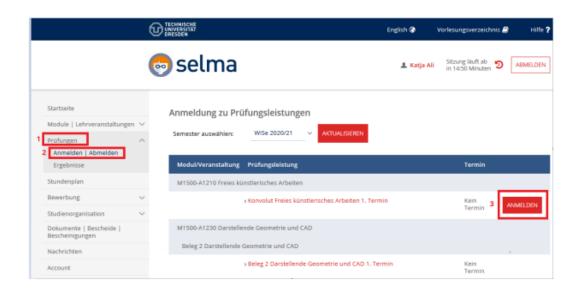
Module registration:

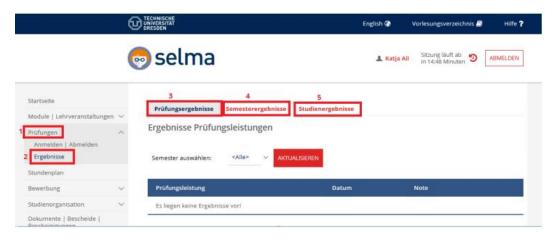
- 1. select the tab "Modules | Courses" and
- 2. then select the tab "Register | Deregister".
 - ATTENTION if you do NOT select the second tab, you will not have the possibility to register modules and courses
- 3. In the middle part of the web window, select the area where your desired module is located.











Registration for exam (pre)services:

- 1. select the tab "Exams" and
- 2. then select the tab "Register | Deregister".
 - ATTENTION if you do NOT select the second tab, you will not be able to register for exams.
 - You can only register for exams if you have previously registered for the corresponding module!
- 3. In the middle area of the web window, select the exam you want to take
 - ACHUTNG: the registration button appears only if registration is possible. Outside the registration periods this button is NOT available

Exam results:

- 1. Under the "Exams" tab and the following
- 2. "Results" tab, you can view all your exam and module results
- 3. Under "Exam results", you can view the exam (pre-) performance results you have achieved in the respective semester.
- 4. Under "Semester Results", you can view the module exam results sorted by semester.
- Under "Study results" you can view the total results of your enrolled study program.
 - Each module that has been started at least gets a hyperlink, which then leads you to the individual exam (pre)results







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





Learning Platform OPAL

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

Student Council

www.fsr-verkehr.de





Selma-Portal selma.tu-dresden.de

University Library www.slub-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



English office hours in the examination office with Mrs. Hildebrandt Thursday 9:00 – 10:00 a.m. in HÜL/N109



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









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 **Finnish French English** Italian **Polish** Japanese Latin **Portuguese** Swedish Spanish Russian 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



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!





