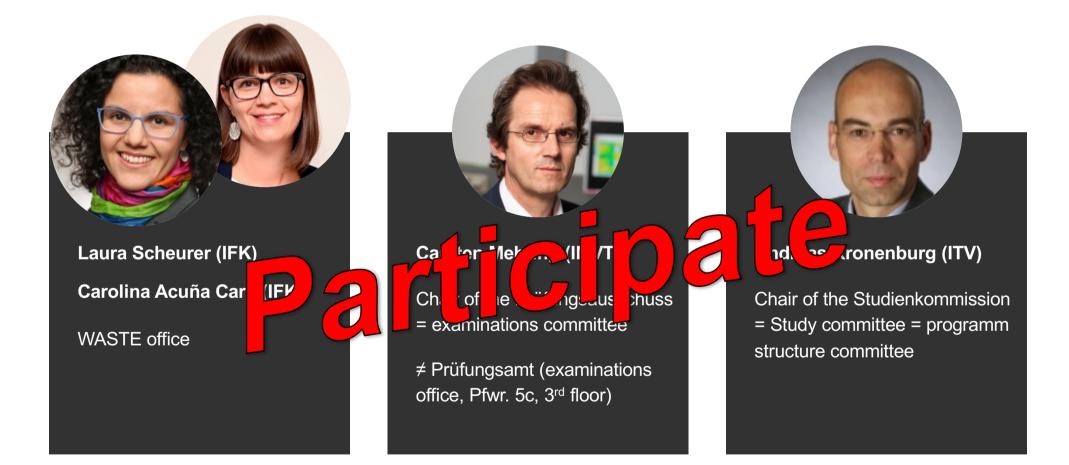


Air Quality Control, Solid Waste and Waste Water Process Engineering

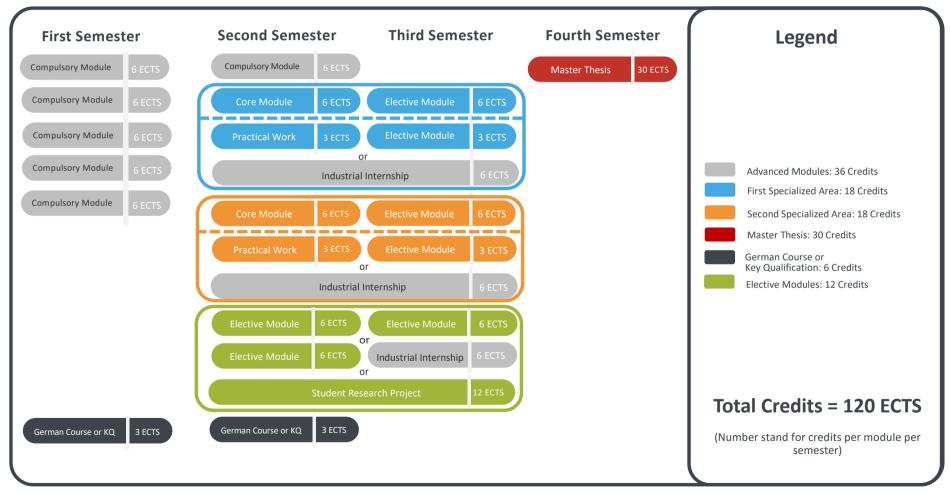
> Andreas Kronenburg

WASTE office & Committees





WASTE Programme





Courses

MSc WASTE – Program overview

Advanced modules (36 credits)

 Consolidation phase by 6 compulsory modules

3 Specialized Areas (18 credits each)

- Air Quality Control
- Solid Waste
- Waste Water Process Engineering (select 2!)

Elective Modules (12 credits)

- Modules in English and German
- Student Research Project
- Industrial Internship

German Course or Key Qualifications (6 credits)

Master Thesis (30 credits)









Details on Courses

Example: Air Quality Control

Knotenfilter-Bezeichnung	
🗆 📒 [926-2015] Air Quality Control, Solid Waste and Waste Water Process Engineering 🔯	
🗈 🔺 [100] Advanced Modules 🕓 🧰	
🖂 🔺 [200] Specialized Area 🕓 🧰	
🖂 🔺 [210] Air Quality Control 🕓 🧰	
🖂 🔺 [211] Core Modules 🕓 🥅	
🗉 🛄 [15430] Measurement of Air Pollutants 🕓 🧱	E Contraction of the second se
🗉 🛄 [15440] Firing Systems and Flue Gas Cleaning 🕓 🥅	E Contraction of the second seco
□ ▲ [212] Elective Modules 6 CP ()	
🗉 🛄 [15430] Measurement of Air Pollutants 🕒 🥅	E
🗈 🛄 [15440] Firing Systems and Flue Gas Cleaning 🕒 🤖	E
🗉 🔟 [15970] Modellierung und Simulation von Technischen Feuerungsanlagen 🕓 🧾	E
🗉 🛄 [59610] Primary Environmental Technologies and Emissions Reduction in Industrial Processes 🕓 🥅	E
🗉 🔟 [105650] Raumklima 🕒 🧱	₿
🗉 🔟 [106900] Computational Fluid Dynamics 🕓 🧱	8
🖃 🔺 [213] Elective Modules or Industrial Internship (6 CP) 🕓 🥅	
E ▲ [2131] Elective Modules 3 CP 🕒 🋅	
Image: March 100 - Ma	8
⊡ ▲ [21311] Elective Modules (in english language) 🕒 🧰	
	₿
🗉 🛄 [39110] Air Quality Management 🕓 🥅	E C
	8
⊡ 🔟 [39660] Biological Waste Air Purification 🕒 🧰	6
🗉 🔟 [41010] Modellierung von Zweiphasenströmungen 🕓 📷	8
	8
🛨 🔺 [21312] Elective Modules (in german language) 🕒 🧰	
🗉 🔟 [67070] Industrial Internship 🕒 🌆	6
🛨 🔺 [230] Waste Water 🕓 🎫	
	6
▲ [DV] Drittversuche	
🗉 🔺 [700] Zusatzmodule 🕒 🥅	



Details on Courses

Module Handbook

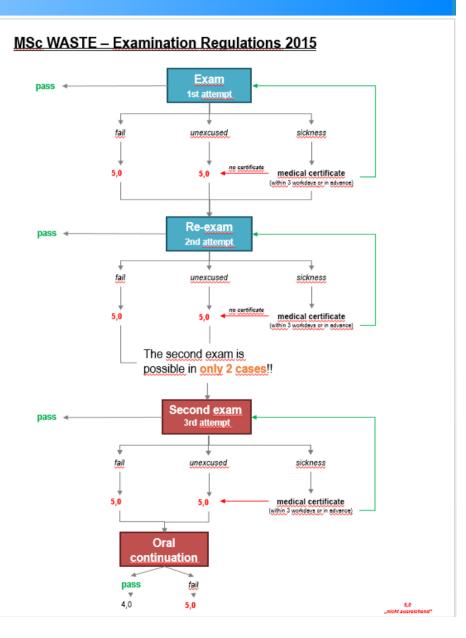
Moduldetails									
Name Therr	no and Flu	uid Dyr	namics						
Organisation Syste	mverfahrei	nstechr	nik						
Organisationskennung 04990	01								
Anmerkung							Modul-Kenr	ung 19200	
Anmerkung intern							Versionskurzbezeichr	-	
ECTS-Credits 6							Externe Zuordr	nung	
Gewichtungsfaktor 6							Gültig	Von 2008S	
Dauer [nach SPOV] 6							Gültig	J Bis	
Lehrveranstaltungen und Prüfungsveranstaltungen		Empf	FCTS						
 Lehrveranstaltungen und Pr üfungsveranstaltungen Name 	Kennung		ECTS Credits	Prüfungsart	Gültig von	Gültig bis	Gewichtungsfaktor	Prüfungsmodus	Anmerkung
Name Angebotsknoten		Sem.		Prüfungsart	Gültig von	Gültig bis	-	Prüfungsmodus	Anmerkung
Name Angebotsknoten Currcle Content of Cont	192001	Sem. KA		Prüfungsart		Gültig bis	1	Prüfungsmodus	Anmerkung
Name Angebotsknoten ① Lecture Thermodynamics of Fluid Mixtures ② Lecture Flow and Heat Transfer	192001 192002	Sem. KA KA		Prüfungsart	20085		1	Prüfungsmodus	Anmerkung
Name Angebotsknoten ① Lecture Thermodynamics of Fluid Mixtures ① Lecture Flow and Heat Transfer ② Exercise Fluid Flow and Heat Transfer	192001 192002 192003	KA KA KA		Prüfungsart	2008S 2008S	Gültig bis 2022S	1 1 1	Prüfungsmodus	Anmerkung
Name Angebotsknoten ① Lecture Thermodynamics of Fluid Mixtures ① Lecture Flow and Heat Transfer ② Exercise Fluid Flow and Heat Transfer ③ Exercise Fluid Flow and Heat Transfer ③ Exercise Thermodynamics of Fluid Mixtures	192001 192002 192003	Sem. KA KA		Prüfungsart	20085		1	Prüfungsmodus	Anmerkung
Name Angebotsknoten Current Content	192001 192002 192003 192004	KA KA KA KA			2008S 2008S		1 1 1 1		Anmerkung
Name Angebotsknoten ① Lecture Thermodynamics of Fluid Mixtures ① Lecture Flow and Heat Transfer ② Exercise Fluid Flow and Heat Transfer ③ Exercise Fluid Flow and Heat Transfer ③ Exercise Thermodynamics of Fluid Mixtures	192001 192002 192003	KA KA KA		Prüfungsart <u>PL</u>	2008S 2008S		1 1 1	Prüfungsmodus	Anmerkung
Name Angebotsknoten Current Content	192001 192002 192003 192004	KA KA KA KA			2008S 2008S		1 1 1 1		Anmerkung
Name Angebotsknoten Current Content	192001 192002 192003 192004	KA KA KA KA			2008S 2008S		1 1 1 1		Anmerkung

- STUDIENLEISTUNGEN (SL)
 - USL = unbenotete Studienleistung → form of examination with no grade (only pass or fail)
 - USL-V = Zulassungsvoraussetzung für Prüfungsleistung → pre-requisite for an examination
 - BSL = benotete Studienleistung → different forms of examination (e.g. exam, case studies, portfolio)
- PRÜFUNGSLEISTUNGEN (PL)
 - **PL** = *Prüfungsleistung* \rightarrow classical module examination (written or orally)
 - LBP = lehrveranstaltungsbegleitende Pr
 üfung → examination in the form of e.g. a seminar paper





- Very good (1.0 and 1.3)
- Good (1.7, 2.0 and 2.3)
- Satisfactory (2.7, 3.0 and 3.3)
- Pass (4.0)
- Fail (5.0)





• How to register for an exam?

Where?

Online: c@mpus

When?

15. Nov. 2023 - 7. Dec. 2023

What?

All exams – also compulsory exams



Basic rules

- Each semester around 30 credits (+/- 10%)
 - You have to register
 - In total: 120 credits in 4 semesters (to be completed in max. 8 semesters!)
- Industrial Internship: usually longer than 6 weeks
 - \rightarrow please inform yourselves about a sabbatical semester (FAQs)
- Master thesis
 - Duration: 6 months
 - extension by 3 months possible, approval by examinations officer (EO)
- <u>Exceptions</u>: Illness, pregnancy, child birth, single parent of child under 8, cttee member for more than 1 yr (consult exam rules)



Your most popular pitfalls

- Exam registration
 - You forgot to register during registration period
 - You must (!) re-take a failed exam asap (within 1 year)
 - You must (!) register for a re-exam and take it
- Withdrawal
 - Online up to 8 days prior to the exam
 - Up to 1 day prior to the exam only due to unforeseen circumstances (illness, accident ...) and (!) by approval by EO
 - On the day no withdrawal possible
 - Not possible for re-exams!

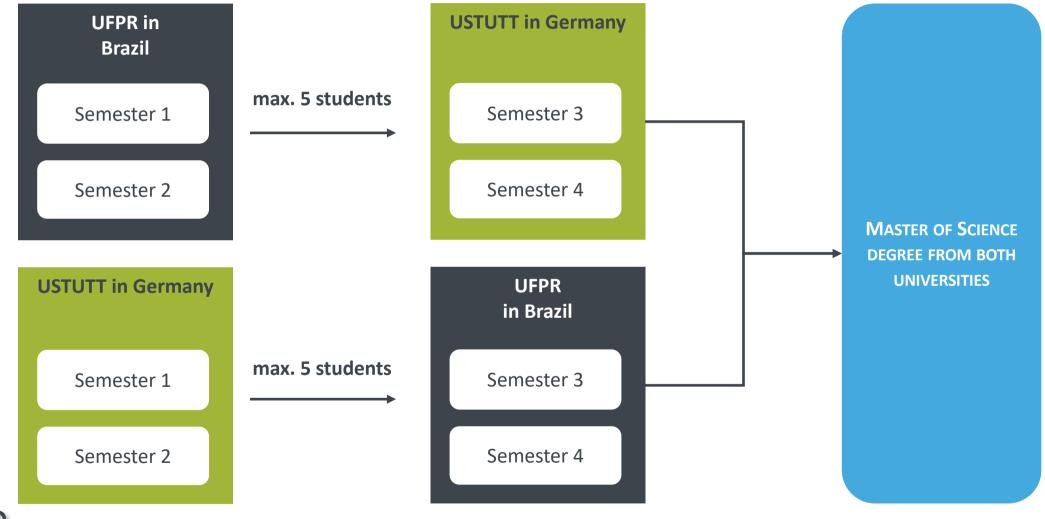


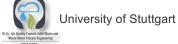
Improve your GPA

- "Freischussregelung" (objective: you can give it a shot and try to study fast even if you are unprepared – dare and reduce your risk)
 - Condition: more than 47credits after 2 semesters, then you may (within the first 4 semesters)
 - Retake 1 exam
 - Delete 1 failed exam from your records
 - Lodge application with Prüfungsamt
- General rule:
 - once you have taken an exam it stands and will be part of your degree.
 - There are 2 exceptions:
 - Freischussregelung
 - Zusatzmodul (additional module) you must (!) inform the Prüfungsamt of your intentions prior to taking this exam. If not, it will count towards your GPA.



Double Degree UFPR – Uni Stuttgart





WASTE Club e.V.

Objectives of the WASTE Club are to:

- ✓ support the Master program as well as events and excursions
- keep in touch with graduates / alumni
- build a network between students, graduates, professors, lecturers, employees, organisations and promoters of the WASTE program
- ✓ give information and make public relation
- ✓ promote science, research and innovation





You

- Where from?
 - How did you hear about the programme?
 - Who went to fairs? Which fairs?



Understand our Philosophy

- We like rules
- We do not like to bend them (neither does the EO)
- We try to help

But it is your responsibility

- The first term may not be what you expect
- Terms 2 to 4 are much better
- You have the choice
- Do not necessarily stick to a topic, select courses that you like

Your life is full of surprises Prediction is difficult – especially for the future (Niels Bohr)

We (and any future employer) expect you to have the capability to work independently on a topic close to your specialization using scientific methods University of Stuttgart ... and now

ENJOY

