

University of Stuttgart
Germany



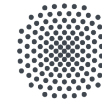
M.Sc. WASTE

Welcome
Generation 2022!
M.Sc. WASTE
21.10.2022

Dr.-Ing.
Carolina Acuña
M.Sc.
Grecia Solis



AGENDA



University of Stuttgart
Germany

- 14:00 – 14:30 Welcome Presentation
- 14:30 – 15:30 Photo Shooting
- 15:30 – 16:15 Prof. Dr. Andreas Kronenburg
Dean of studies
- 16:15 – 17:00 M.Sc. WASTE extracurricular activities,
experiences from current students
- 17:00 – 17:30 Election of: Class speakers
Newsletter coord.
WIM coord.
- 17:30 Get together

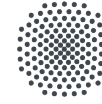


M.Sc. WASTE



M.Sc. WASTE Office

M.Sc. WASTE Office Team



University of Stuttgart
Germany

Dean of Studies



Prof. Dr. Andreas
Kronenburg

Course Director



Dr. -Ing. Carolina Acuña
Caro

Course Manager



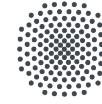
Grecia Solís Castillo,
M.Sc.



M.Sc. WASTE

M.Sc. WASTE Office

M.Sc. WASTE Office Team



University of Stuttgart
Germany



M.Sc. WASTE Office (room 0.02)

Announcements via E-mail

Organization of events

E-mail: info@waste.uni-stuttgart.de

M.Sc. WASTE Course Director (room 0.03)

Dr. -Ing. Carolina Acuña Caro

Office hours: **upon appointment**

Phone: +49 (0) 711 685 68947

E-mail: cd-waste@ifk.uni-stuttgart.de

M.Sc. WASTE Course Management (room 0.04)

Grecia Solís Castillo, M.Sc.

Office hours: **upon appointment**

Phone: +49 (0) 711 685 68936

E-mail: cd-waste@ifk.uni-stuttgart.de

M.Sc. WASTE Committees

M.Sc. WASTE Team



University of Stuttgart
Germany



Examination Committee (Prüfungsausschuss)

Chairman: Prof. Ph.D. Carsten Mehring

Admissions Committee (Zulassungsausschuss)

Chairman: Prof. Ph.D. Carsten Mehring



Study Committee (Studienkommission)

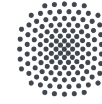
Chairman: Prof. Dr.-Ing. Andreas Kronenburg



M.Sc. WASTE

M.Sc. WASTE Office and partners

International Center (IZ)



University of Stuttgart
Germany

Social Affairs

They provide you:

- ✓ Assistance with legal and social procedures
- ✓ Accommodation
- ✓ Scholarships

<https://www.uni-stuttgart.de/en/university/international/service/>



Ms. Svenja Wübker

**International Master Students
+ Double Degree Students**

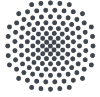
Consultation hours:
Mo. and Wed. 1:30 – 4:00 p.m.
Tue. and Thu. 10:00 a.m. – 12:00 p.m.
(and upon appointment)
wuebker@ia.uni-stuttgart.de



Ms. Katja Jenkner

**International Master Students
+ DAAD Scholars**

Consultation hours:
Tue., Thu. and Fr. 10:00 a.m. – 12:00 p.m.
incoming.daad@ia.uni-stuttgart.de



Universität Stuttgart

Zentrale Studienberatung

Support for managing many issues and when facing problems



Overview: www.student.uni-stuttgart.de/beratung/

Examples:

- **Student Counseling Center**

Organizing the study program, reorientation, change of study program, improving study skills, contact point for all unclear issues.

We can also direct you to the relevant institution.

www.uni-stuttgart.de/zsb in Vaihingen: House of Students

- **Students with a disability or chronic illness**

Advice and support to students with disabilities or chronic illnesses concerning all questions ranging from accessibility to organization of the course of studies. Commissioners: Ms Eicken und Ms von Wolff

www.uni-stuttgart.de/studium/beratung/behinderung/

in Vaihingen: House of Students

- **Studying and family**

We are a family-friendly university and support you!

Service Uni & Family, Ms. Alvermann

www.uni-stuttgart.de/studium/beratung/studieren-mit-familie/

The M.Sc. WASTE: An Overview

Introduction



University of Stuttgart
Germany



Background:

- Chemical
- Civil
- Process
- Mechanical

Theoretical background to engineer creative solutions for environmental challenges

State-of-the-art environmental and process technologies

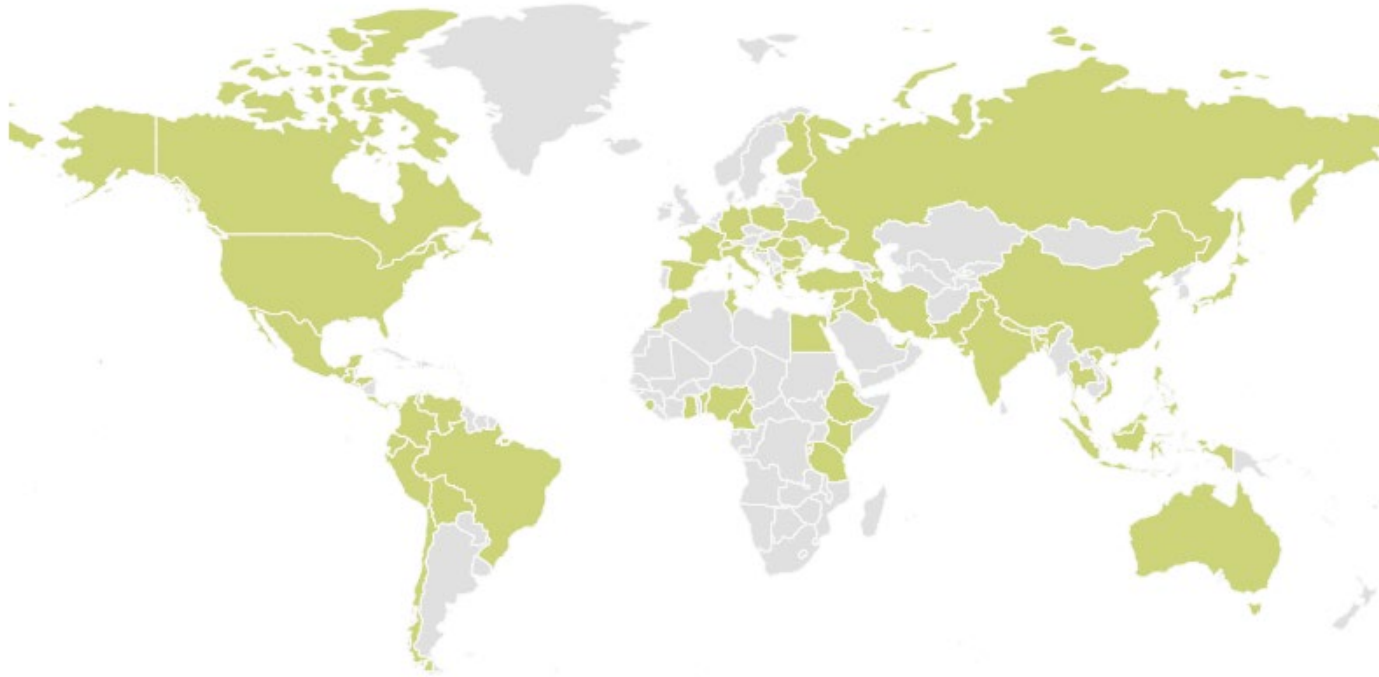
Individual profile in the environmental sector

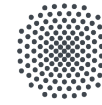
Practical experience excursions to companies and industrial and/or municipal facilities

The M.Sc. WASTE: Our Alumni Network



University of Stuttgart
Germany





German industry



Procter&Gamble



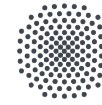
DAIMLER

SIEMENS

Building Technologies



The M.Sc. WASTE: Our Alumni



University of Stuttgart
Germany



German small and medium sized companies



Wasser- und Abwassertechnik



EISENMANN

LEADING IN PRODUCTION EFFICIENCY



Die Experten für abwasserfreie Produktion



Universities and Research Institutes



Universität Stuttgart



Fraunhofer



HELMHOLTZ
ZENTRUM FÜR
UMWELTFORSCHUNG
UFZ

The M.Sc. WASTE: Our Alumni



University of Stuttgart
Germany

Companies at their home countries



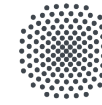
LEADING IN PRODUCTION EFFICIENCY



energy people



The M.Sc. WASTE: Historical highlights



University of Stuttgart
Germany

INTERDISCIPLINAR

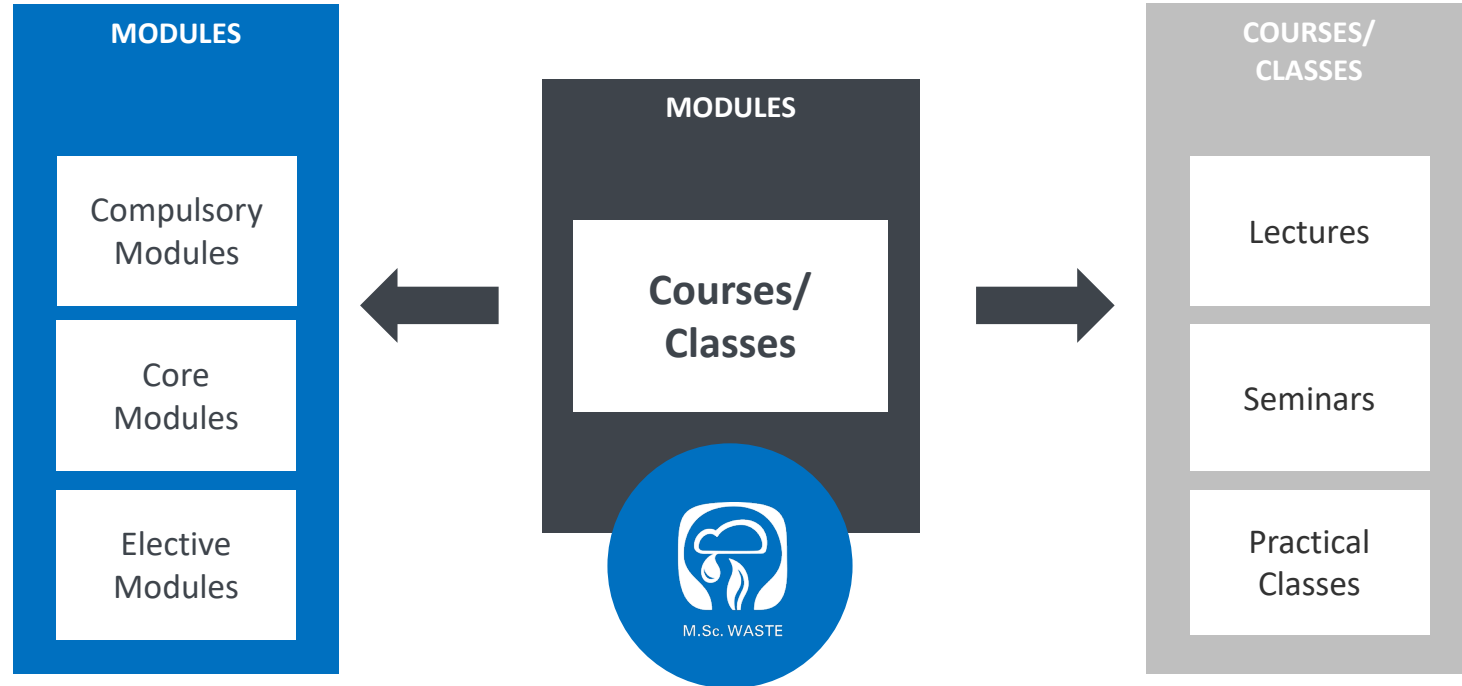
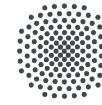
INDIVIDUAL

INTERCULTURAL

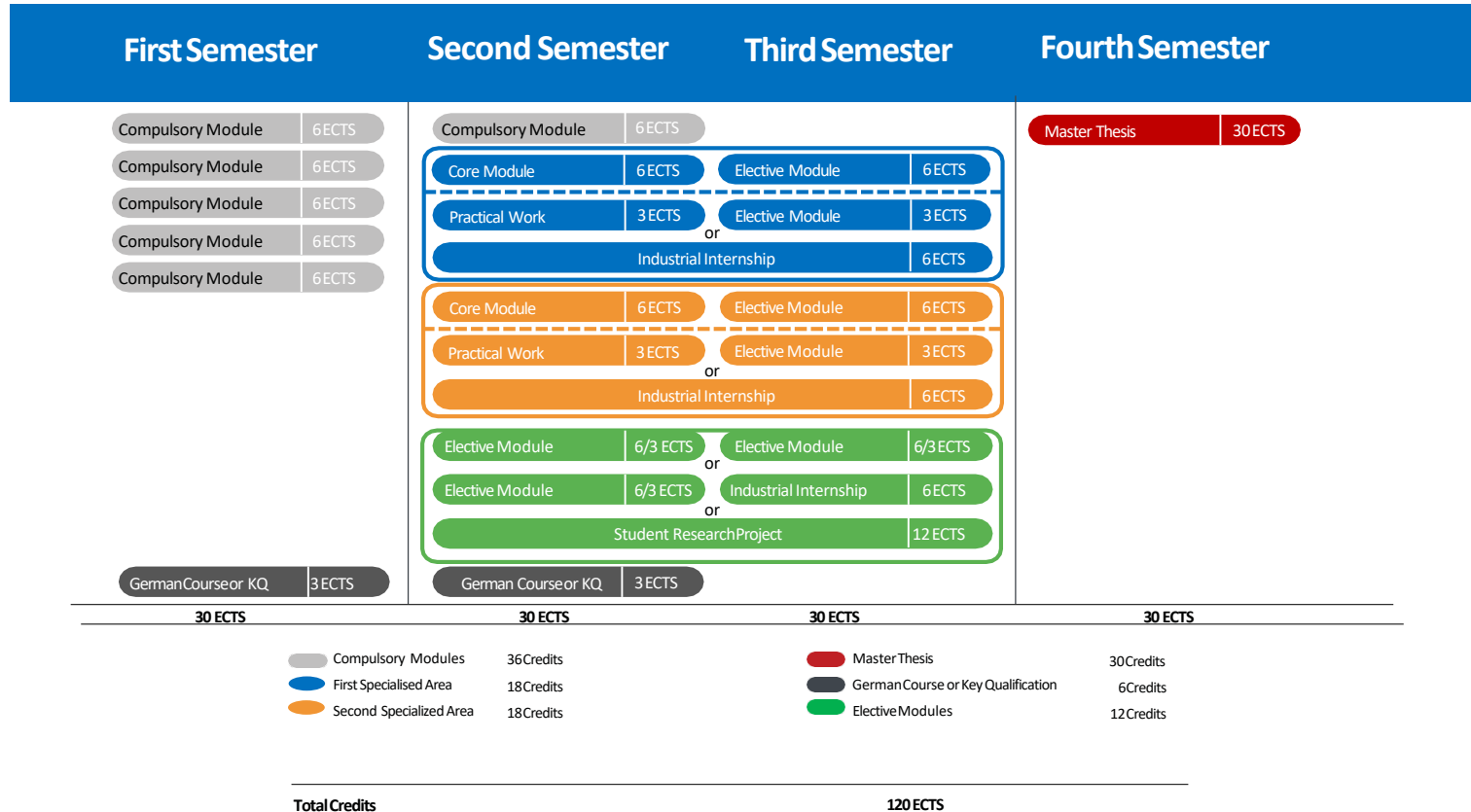
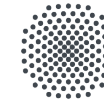
- Established in 2002 as a 3 semester program
- Changed in 2008 to 4 semesters
- Start in September – incl. German course
- Start in October – excl. German course
- Bologna Process: M.Sc. WASTE based on a modular system
- **Degree: Master of Science**



The M.Sc. WASTE: Modules definition



The M.Sc. WASTE: Macrostructure



The M.Sc. WASTE: Macrostructure



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Germany



M.Sc. WASTE

Advanced modules (36 credits)

- Consolidation via 6 compulsory modules

2 Specialized Areas (each 18 credits)

- Air Quality Control
- Solid Waste
- Waste Water Process Engineering

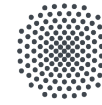
Elective Modules (12 credits)

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

German Course and/or Key Qualifications (6 credits)

Master Thesis (30 credits)



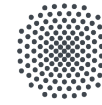


Compulsory Modules of the 1st and 2nd semester

- Thermo- and Fluid Dynamics (Kronenburg/Laurien)
- Pollutant Formation and Air Quality Control (Kronenburg/Vogt)
- Chemistry and Biology for Environmental Engineers (Engesser/Schönberger/Schwederski)
- Sanitary Engineering (Fischer/Schönberger)
- **Process Engineering (Eiden/Trautmann)**
- Technology Assessment and Presentation Techniques (Hufendiek)



The M.Sc. WASTE: Specialized Areas



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Air Quality Control (18 Credits)

Mandatory Core Module (6 Credits)

- Firing Systems and Flue Gas Cleaning (Scheffknecht)
- Measurement of Air Pollutants (Vogt)

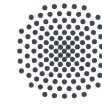
Elective Modules (9 credits)

Practical Work (3 Credits)

- Practical Class Air Quality Control



The M.Sc. WASTE: Specialized Areas



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Solid Waste (18 Credits)

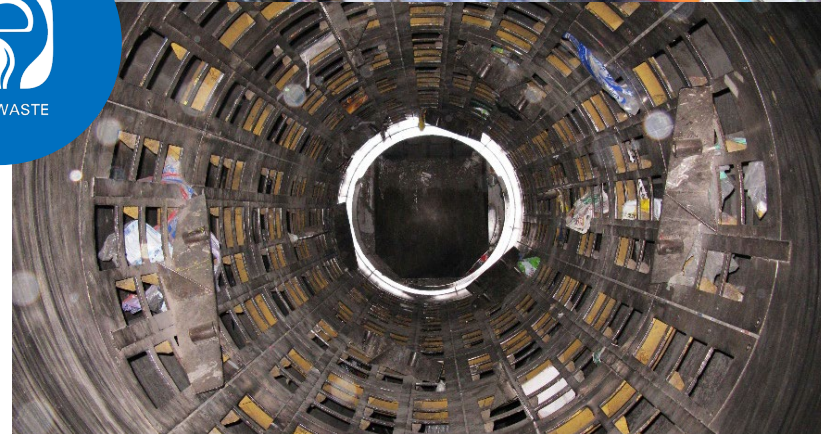
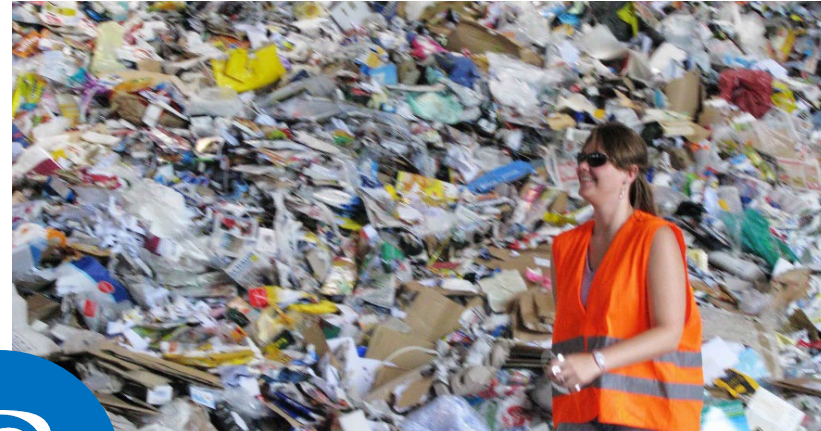
Mandatory Core Module (6 Credits)

- Mechanical, Biological and Thermal Waste Treatment (Fischer/Gehrmann)

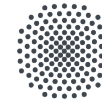
Elective Modules (9 credits)

Practical Work (3 Credits)

- Sanitary Engineering Part II: Solid



The M.Sc. WASTE: Specialized Areas



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Waste Water (18 Credits)

Mandatory Core Module (6 Credits)

- Urban Drainage and Design of Wastewater Treatment Plants (Schönberger/Dittmer)

Elective Modules (9 credits)

Practical Work (3 Credits)

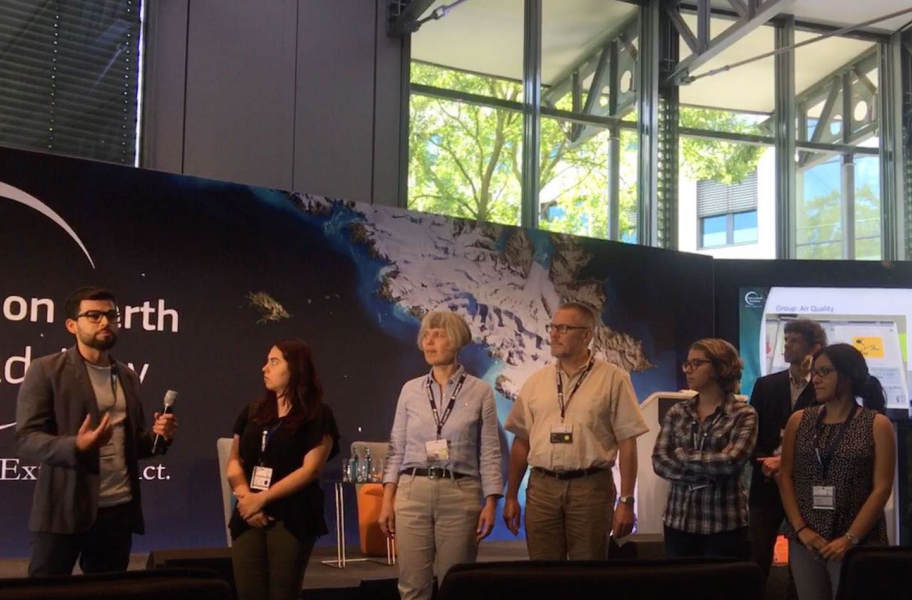
- Sanitary Engineering Part I: Water





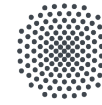


Welcome to the M.Sc. WASTE – Dr. Ing. Tomá Acuña Caro – Greia Solís Castillo, M.Sc





The M.Sc. WASTE: Basic Rules



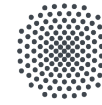
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- Each semester around 30 Credits (+/- 10%)
- Total: 120 Credits in 4 semesters
- Industrial internship optional, minimum duration 6 weeks



The M.Sc. WASTE: German language courses



University of Stuttgart
Germany



Language Center University of Stuttgart

http://www.sz.uni-stuttgart.de/deutsch/daf_info.en.html

Private Language Schools

Institut für Auslandsbeziehungen (ifa)

<http://www.ifa.de/en.html>

Deutschkolleg im Ökumenischen Zentrum

<http://www.deutschkolleg-stuttgart.de/de/deutschkurs-programm.php>

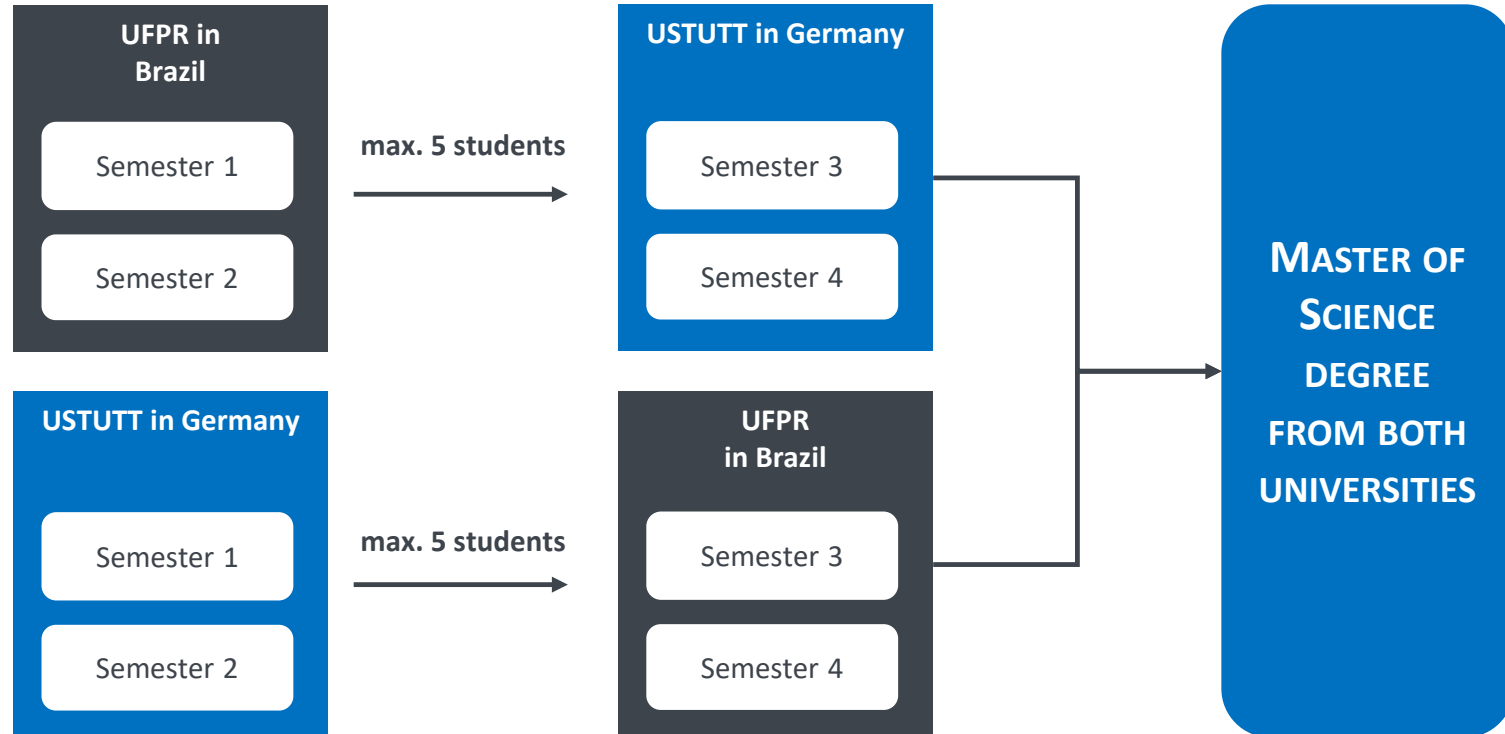
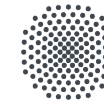
VHS Stuttgart

<http://www.vhs-stuttgart.de/>

Henke Schulungen

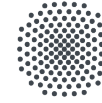
<http://www.henke-schulungen.de/de/uebersicht.html>

The M.Sc. WASTE: Double Degree



The M.Sc. WASTE: An Overview

Examination



University of Stuttgart
Germany

Examination Office - University of Stuttgart

Haus der Studierenden

Pfaffenwaldring 5c // 3rd floor

Campus Vaihingen

<https://www.student.uni-stuttgart.de/en/exams/student-service-examination-office/>

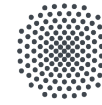
Office hours:

Wednesday	01:00 p.m. – 03.30 p.m.
Thursday	09:00 a.m. – 12:00 p.m.

Online consultation hours:

Monday	01:30 p.m. – 02.30 p.m.
Thursday	10:00 a.m. – 11:00 a.m.



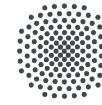


Welcome to the M.Sc. WASTE

Air Quality Control, Solid Waste and Waste Water Process Engineering

We offer an extensive and unique range of graduate courses educating students to respond to the increasing environmental challenges in the fields of Air Quality Control, Solid Waste, and Waste Water Process Engineering.

[Photo: Jeramiah Backman Photography]



Welcome to C@MPUS, the Campus Management Portal of the University of Stuttgart

which provides continuous IT Support to the administrative processes involved in academic affairs and teaching.

Students and Employees

log in using your University of Stuttgart user account (ex. ac123456, st987654).

Applicants

that do not already study or work at the University of Stuttgart will first need to [register](#).

Former students who wish to reapply but no longer have an active user account should [re-register](#) and then follow the instructions provided in the confirmation email.

Without registering

you can access detailed information about the courses offered at the University of Stuttgart.

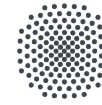
Further information

can be found in the [documentation](#).

Log in

Log in

Continue without login



STEP 1:
Lecture Registration
(C@MPUS)

- Access to lecture material
- Calendar
- Guarantee your spot
(Practical works - Lab)

Lectures Start: 17.10.2022

STEP 2:
Exam Registration
(C@MPUS)

- **MUST DO!**
- Allow you to take an exam
- Allocate it in the right place
of your curriculum

16.11 – 08.12.2022

M.Sc. WASTE Schedule WS2022/23 – 1. Semester



Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-9:30	Sanitary Engineering: Solid Waste Management Dr. Duelli V47.03			Chemistry and Biology for Environmental Engineers Dr. Hazari/Dr.Kuch/Prof. Kleindienst V7.11	
9:45-11:15	Sanitary Engineering: Waste Water Technology Dr. Schönberger V38.04	Thermo and Fluid Dynamics: Thermodynamics of Mixtures,V Prof. Kronenburg V23.01	Technology Assessment and Presentation Techniques: Technology Assessment and Environmental Economics Dr. Fahl V9.32	Pollutant Formation and Air Quality Control: Chemistry and Physics of Combustion,V Prof. Kronenburg V31.01	Pollutant Formation and Air Quality Control: Basics of Air Quality Control Dr. Vogt V23.01
11:30-13:00			Thermo and Fluid Dynamics: Flow with Heat Transfer Prof. Germann V12.01	Thermo and Fluid Dynamics: Flow with Heat Transfer,Ü Prof. Germann V5.03	Pollutant Formation and Air Quality Control: Chemistry and Physics of Combustion,Ü Thermo and Fluid Dynamics: Thermodynamics of Mixtures, Ü - Alternating Prof. Kronenburg V23.01
14:00-15:30	Chemistry and Biology for Environmental Engineers ¹ Dr.Hazari/Dr.Kuch/Prof. Kleindienst V47.04/V6.02	Chemistry and Biology for Environmental Engineers ¹ Dr.Hazari/Dr.Kuch/Prof. Kleindienst V7.04		Technology Assessment and Presentation Techniques: Academic Communication Skills – Group 1 Dr. Böhner Pfaff. 23, S0.38	
15:45-17:15	Chemistry and Biology for Environmental Engineers ¹ Dr.Hazari/Dr.Kuch/Prof. Kleindienst V47.04/V6.02	Chemistry and Biology for Environmental Engineers ¹ Dr.Hazari/Dr.Kuch/Prof. Kleindienst V7.04		Technology Assessment and Presentation Techniques: Academic Communication Skills – Group 2 Dr. Böhner Pfaff. 23, S0.38	
17:45-21:00	German language course ²		German language course ²	German language course ²	

AGENDA



University of Stuttgart
Germany

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M.Sc. WASTE



AGENDA



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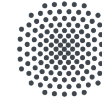
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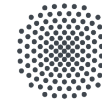


M.Sc. WASTE



Extracurricular Activities

WASTE Intercultural Meetings & Summer Party

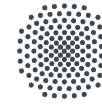


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Extracurricular Activities

WASTE Intercultural Meetings & Summer Party

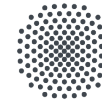


University of Stuttgart
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Extracurricular Activities

M.Sc. WASTE Soccer Team

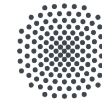


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Extracurricular Activities

M.Sc. WASTE Fundraising activities



University of Stuttgart
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Extracurricular Activities

WASTE Intercultural Meetings & Summer Party

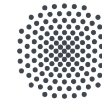


University of Stuttgart
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Extracurricular Activities

Graduation Ceremony



University of Stuttgart
Germany

Save the Date!
November 19th 2022



Extracurricular Activities

Rooms at the IFK



University of Stuttgart
Germany



IFK Computer Pool (room 0.78)

- Please do not eat and drink in the computer pool
- Please always close the window in case you are the last one to leave

M.Sc. WASTE Student Room (room 0.51)

- Keep it neat and clean!

IFK Kitchen

- *Keep it neat and clean!*

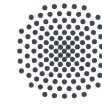


OUR HOUSE-ELVES
ARE CURRENTLY
ON STRIKE.

YOU WILL HAVE TO
CLEAN UP YOUR
OWN MESS UNTIL
FURTHER NOTICE.

Extracurricular Activities

Rooms at the IFK

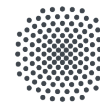


University of Stuttgart
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Extracurricular Activities

M.Sc. WASTE Newsletter



University of Stuttgart
Germany

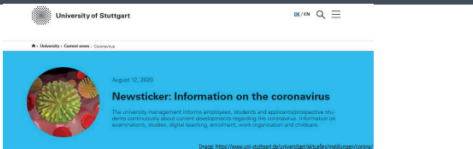


M.Sc. Air Quality Control,
Solid Waste and Waste Water
Process Engineering
(WASTE)

SUMMER SEMESTER 2020 - ISSUE 24

NEWSLETTER

CORONAVIRUS PANDEMIC: A RETROSPECTIVE OF THE DIGITAL SUMMER 2020



In the beginning of this year we received, through the news, some vague ideas about what was happening in China during December 2019. On January 27, 2020 the first case in Germany was confirmed near Munich, Bavaria. Currently the ongoing worldwide pandemic has spread to at least 177 countries, killing more than 610,200 and sickening more than 14.7 million in a matter of months [source: New York Times Aug. 6, 2020].

Within this new context and after a confusing period trying to organize the last examinations of winter term 2019/20 as well as the coming summer term, the middle of March saw our decision to implement term to be published information almost daily through their home office for its employees and to ban the entrance of the students to the campuses. The main focus was directed at avoiding the further spread of the SARS-CoV-2. To stay at home was the main message of the German government during the following days, which, in the end, became months. Therefore, the university announced a fully online summer 2020 term starting with this measure a new challenge presented itself for the University of Stuttgart digital teaching. Although our university already utilized some platforms to share important material for the lecturers and to assist the communication between lecturers and students, e.g. ILS, this situation brought a new challenge for both sides. On one hand the lecturers had to put in practice their creativity to offer attractive online lectures, while, on the other, students had to organize their daily schedules and attend the lectures from their dorms/home. Unfortunately, the management of the summer term under the given conditions was not that 'easy' for everybody. Some of our international students got stuck in

their home countries being unable to come back to Germany even for the period of on-site examinations. Many master thesis and student research projects were delayed until further notice.

Accordingly, corona-guidelines for study programs of the University of Stuttgart and the corona-ordinance from the Federal State Government of Baden-Württemberg were released and must be considered for each of the cases. Moreover, a very dynamic, informative situation occurred when the university started to publish updated information almost daily through their 'Newsticker: Information on the coronavirus' page (<https://www.uni-stuttgart.de/en/university/news/corona/>). Up to date this link is still very important to follow the latest news regarding the hygiene concept, examination rules, enrollment, travel warnings, and framework of conditions for teaching in the coming winter semester 2020/21, among others.

Since the pandemic is still an ongoing issue worldwide, we must continue taking care of ourselves but also of our neighbor. Hopefully, during this time after the confinement we realized just how important social contact is, to meet friends, to breathe fresh air, to attend a lecture, to interact with professors and colleagues, and consequently try to appreciate every moment together. Let's hope for better times!

CONTENTS

TITLE STORY

NEWSTICKER: INFORMATION ON THE CORONAVIRUS	
CORONAVIRUS PANDEMIC	1
ONLINE LECTURES DURING COVID-19	
Experiences of Students and Professors	3-4

M.Sc. WASTE NEWS

WASTE NEW WEBSITE	4
FAREWELL	5
SUSTAINABILITY WEEK	6-7
WELCOME THE NEW GENERATION	8-9
SYMPOSIUM 2020	9-10

STUDYING M.Sc. WASTE

MEASUREMENTS IN THE AIRPORT	11
HUMAYAR'S AND BHARGAV	12
INTERSHIPS DURING M.Sc. WASTE	13-16

LIFE AFTER WASTE

MEASUREMENTS OF AIR POLLUTANTS	17
RECYCLING PROJECT IN PERU	21

EXTRACURRICULAR

POWERFUL WOMEN IN SCIENCE	18-19
RECYCLING IN PFAFFENHOF DORMS	20
UNIVERSITY CHOIR	21-22

With the spread of the novel coronavirus in early 2020 and the resulting need to maintain social distancing, holding online lectures on virtual platforms have become essential. With the spread of the novel coronavirus in early 2020 and the resulting need to maintain social distancing, holding online lectures on virtual platforms have become essential. Universities across the globe quickly evolved to create digital platforms to ensure uninterrupted learning for their isolated students. At the University of Stuttgart, students use an online platform called WebEx to attend online meetings and lectures. An interview was conducted to understand the students' and the professors' feedback with regards to the online lectures and their pros and cons.

Dr.-Ing. Klaus Fischer is a visiting lecturer for the M.Sc. WASTE program and, up until three years ago, was a member of ISWA (Institute for Sanitary Engineering, Water Quality and Solid Waste Management) and a former division manager SA.

He has been conducting lectures for the WASTE program since it began and has been teaching sanitary engineering and mechanical and biological treatment of waste. He was the perfect candidate for the interview as he has been a lifelong contributor to the WASTE program.

When asked about his experience with the change to virtual platforms he said that it was relatively easy for him as he is constantly involved in consulting and doing online meetings. Setting up online lectures was also simplified as he had his own camera and could make videos easily. In addition, he had to make some changes to his compendium to be able to send them chapter by chapter to the students.

One major change he made was giving a lot of exercises after each chapter. His objective for doing this, he said, is that the students not only read the compendium but also think about the content and read further literature about it. However, he does not find online meetings to be advantageous as they are more time consuming for the professors to prepare additional lectures and grade more exercises now compared to the past. He commented that he has been waiting desperately for the vaccination to arrive so that life could go back to normal.

What Professor Fischer really misses is the personal interactions with the students: the questions they ask and the reactions that he gets when he is giving a live lecture. Due to the online meetings, he does not have much contact with the students, and he misses interacting with them. While he doing a WebEx meeting he said "you can see only see a small picture and each person has a very small space" and he says he cannot "see the students smiling, laughing, or being tired". He remarked that even if the online format of lectures is helpful, it is still very distant from the actual classroom environment. He values the personal contact with people and finds that to be beneficial for forming a strong relationship. On the students' side, however, some interesting feedback was received. One of the students from Generation 2019, Zhaolin Xu, said he prefers the online lectures more compared to the physical ones. He likes this kind of teaching methodology as he found it easy to adapt to. For example, he said that he could record the videos during the lectures and replay the video as many times as he wants if he has difficulty in understanding something. He observed that studying online saves him a lot of time because he does not need to go to the classrooms, which are quite far away from his dorm.

Nevertheless, he reflected that the virtual lecture really requires self-discipline. He said it is easy to be distracted when you have a meeting virtually and that it also requires more time management skills. After the reopening of the quarantine, he opined that the virtual lecture can still be a good supplement, even if we are allowed to have normal lectures.

This switch to online teaching is something that is unprecedented for both the students and professors, but we all are embracing it as a consequence of the pandemic. While in person teaching will eventually return to campus, the crisis provides an opportunity to bring more technology to the classroom. The use of digital tools and modernizing the way courses are instructed can potentially allow students to choose how they learn best. Universities across the globe quickly evolved to create digital platforms to ensure uninterrupted learning for their isolated students. At the University of Stuttgart, students use an online platform called WebEx to attend online meetings and lectures. An interview was conducted to understand the students' and the professors' feedback with regards to the online lectures and their pros and cons.

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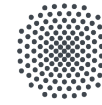
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Extracurricular Activities

International Symposium



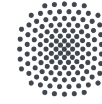
University of Stuttgart
Germany

November 4th 2022
Hybrid
Online Registration:
<https://wasteclubstuttgart.com/vi-international-symposium-2022/>



Extracurricular Activities

WASTE Club Stuttgart e.V.



University of Stuttgart
Germany

[WASTE Club e.V. – MSc WASTE Professional Network \(wasteclubstuttgart.com\)](http://wasteclubstuttgart.com)



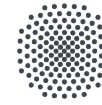
**WASTE Club
Stuttgart e.V.**

The WASTE Club is a Professional Network that supports the activities of the International M.Sc. “ Air Quality Control, Solid Waste and Waste Water Process Engineering” (WASTE)

- Support the M.Sc. WASTE during events and excursions.
- Consolidate a Professional Network with Alumni, Students, Lecturers, and Staff from the MSc. WASTE.
- Foster public relations among members.
- Promote Science, Research and Innovation.

Join us!

AGENDA



University of Stuttgart
Germany

- 14:00 – 14:30 Welcome Presentation
- 14:30 – 15:30 Photo Shooting
- 15:30 – 16:15 Prof. Dr. Andreas Kronenburg
Dean of studies
- 16:15 – 17:00 M.Sc. WASTE extracurricular activities,
experiences from current students
- 17:00 – 17:30 Election of: Class speakers
Newsletter coord.
WIM coord.
- 17:30 Get together

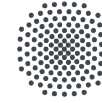


M.Sc. WASTE



Extracurricular Activities

Taskforce



University of Stuttgart
Germany

We need your commitment as:

- Class Speaker
- Task force member
- Newsletter coordinator
- WIM coordinator
- Symposium Committee 2023

Ongoing project: Graduation Ceremony 2022

****Helpers are wanted!**

Fill in the corresponding list!



Jazmin Morel



Javier Rangel

Class speakers

Generation 2021



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M.Sc. WASTE





University of Stuttgart
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Thank you!



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