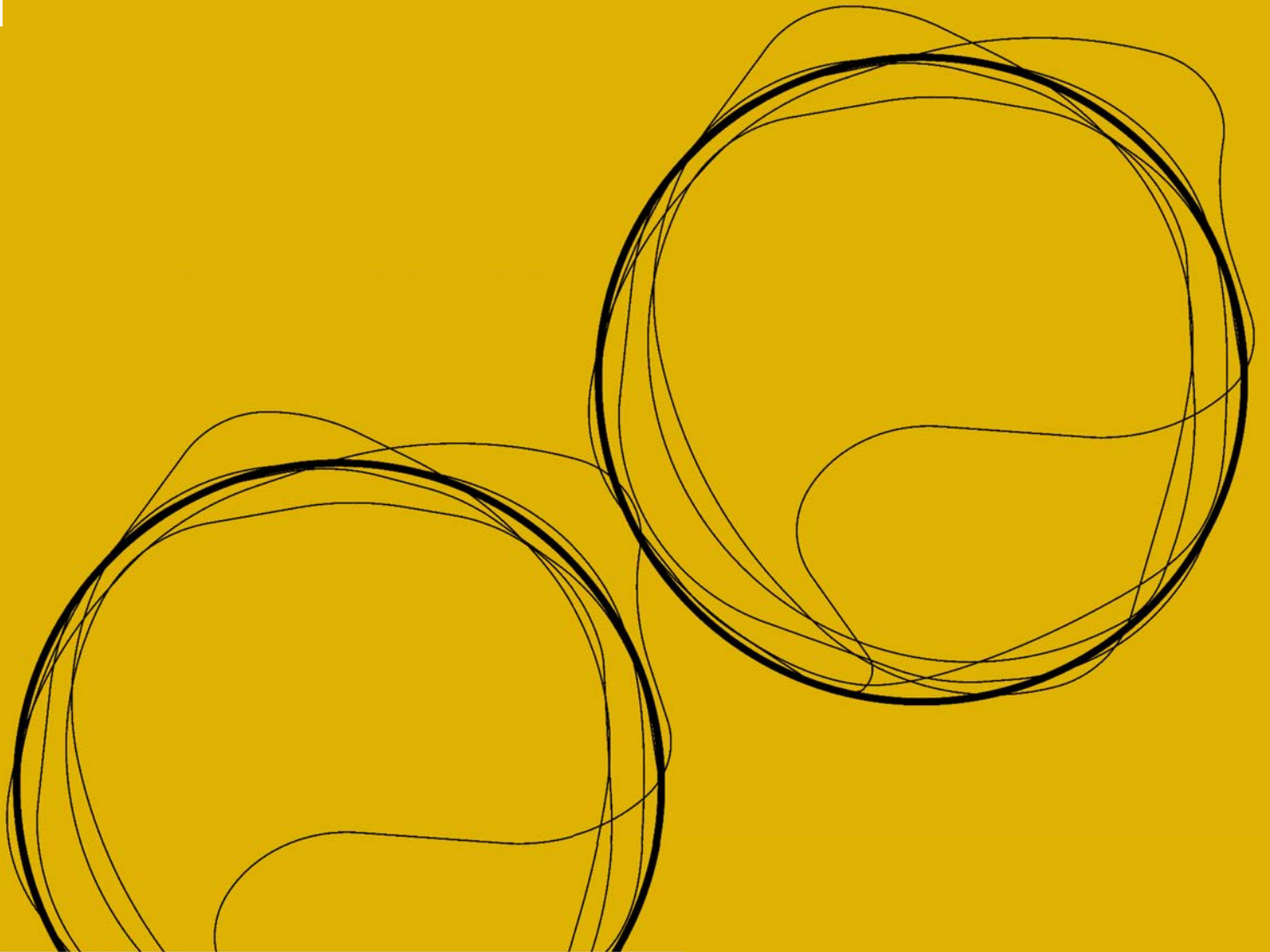


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International
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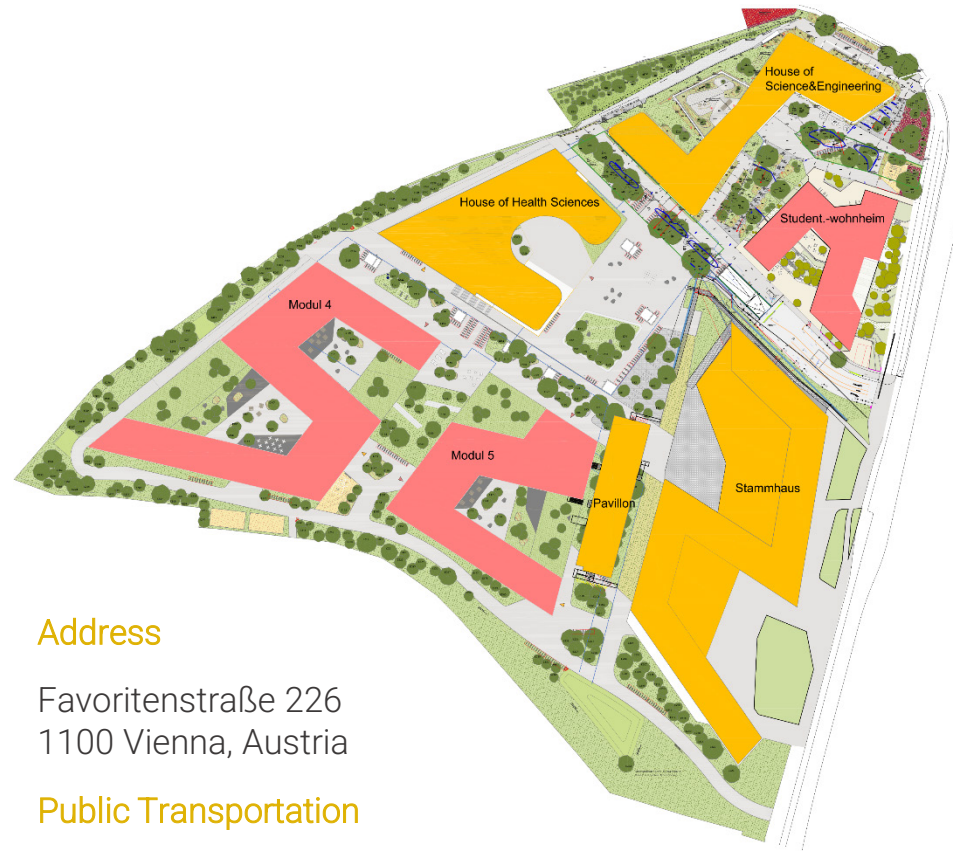


about the project

- sus^cool – International Summer School
- Sustainable Design and Circular Construction - Building with Regional Renewable Materials
- construction techniques for bio-based building materials
- europe-wide expert networking, know-how exchange and creation of a knowledge community
- transformation of the construction sector into a more green, circular, and sustainable future



University of Applied Sciences Campus Wien



Address

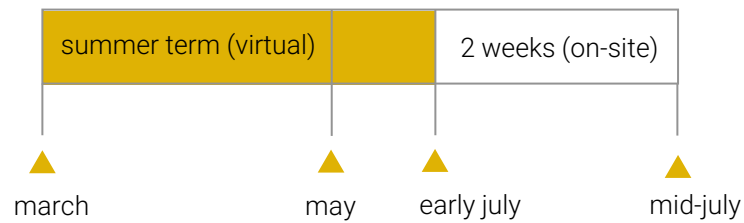
Favoritenstraße 226
1100 Vienna, Austria

Public Transportation

U1 (metro) – Altes Landgut



Programme online lecture SS2025



Implementation of the summer academy

- March-May: online lecture & design
- July 2026: build projects on-site

Accreditation: 6 ECTS

11.03.	KICK-OFF	
17:30 - 18:30	1,0 Introduction, assignment, and getting to know the team. Overview of the course structure, schedule, and expectations, followed by an open discussion and Q&A session.	Rieger-Jandl, Santana Sosa, Mitrenova, Doubek
13.03.	HISTORY of sustainable building materials (Earth and Timber)	
17:30 - 19:00	1,5 Overview of the historical application of bio-based building materials and construction techniques, with a focus on earth and timber	Rieger-Jandl, Santana Sosa (FHCW)
18.03.	INTRODUCTION: Bio-based building materials	
17:30 - 19:00	1,5 Overview of the material properties and construction features of various bio-based building materials	David Kraler (einszueins architektur)
25.03.	TIMBER	
17:30 - 19:00	1,5 Overview of fundamental timber properties, construction techniques, and key structural systems, including connections and prefabrication methods	Matthias Doubek (Strabag)
27.03.	EARTH	
17:30 - 19:00	1,5 International earthen construction techniques, research projects, and contemporary applications in architecture	Andrea Rieger-Jandl (FHCW)
10.04.	HEMP and sustainable insulation materials	
17:30 - 19:00	1,5 Exploring the thermal, acoustic, and ecological benefits of hemp and natural insulation in sustainable construction	Samuel Kalika (Critical Concrete)
22.04.	BEST-PRACTICE: TERRABLOC	
17:30 - 19:00	1,5 Earth blocks – rediscovering a forgotten material. Presentation of Terrabloc products made from sustainable, local, and circular clay	Laurent de Wurtemberg (HEIA-FR, Terrabloc)
24.04.	Material CIRCULARITY and LIFECYCLE DESIGN of timber architecture	
17:30 - 19:00	1,5 Exploring the potential of material circularity and lifecycle expansion with a focus on contemporary timber buildings	Rafael Passarelli (UHasselt, SuRE)
29.04.	Building with cereal STRAW	
17:30 - 19:00	1,5 The constructive and aesthetic potential of architecture using agriculture-based materials	Alia Bengana (HEIA-FR)



online lecture

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und Statistik



everyday use



as a seating



as a table



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und Statistik

programme – design-build workshops (July 7th – 18th)

	Time	Monday, 07.07.2025	Tuesday, 08.07.2025	Wednesday, 09.07.2025	Thursday, 10.07.2025	Friday, 11.07.2025	Saturday, 12.07.2025
WEEK 1	09:00 12:30	Welcome + Inputs + Ice-breaking FHCW	Workshop on EARTH Construction HEIA-FR/CRATerre	Application of techniques in a real project: EARTH FHCW/YEB	Application of techniques in a real project: EARTH FHCW/YEB		Cultural Excursion
	13:30 17:00	Introduction to Earth Construction and Techniques HEIA-FR/CRATerre	Workshop on EARTH Construction HEIA-FR/CRATerre	Application of techniques in a real project: EARTH FHCW/YEB	Application of techniques in a real project: EARTH FHCW/YEB	Technical Excursion	
	18:00 20:00	Keynote HEIA-FR/CRATerre: EARTH	Keynote YEB: EARTH	Keynote Dietrich Untertrifaller: TIMBER	Keynote Andi Breuss: EARTH		
	Time	Monday, 14.07.2025	Tuesday, 15.07.2025	Wednesday, 16.07.2025	Thursday, 17.07.2025	Friday, 18.07.2025	
WEEK 2	09:00 12:30	Introduction to TIMBER construction Strabag	Application of techniques in a real project: TIMBER Strabag	Application of techniques in a real project: REUSE Critical Concrete/UHasselt, SuRE	Application of techniques in a real project: REUSE Critical Concrete/UHasselt, SuRE	Presentations & Farewell	
	13:30 17:00	Application of techniques in a real project: TIMBER Strabag	Application of techniques in a real project: TIMBER Strabag	Application of techniques in a real project: REUSE Critical Concrete/UHasselt, SuRE	Application of techniques in a real project: REUSE Critical Concrete/UHasselt, SuRE		
	18:00 20:00	Keynote 1:1/Maderamen: TIMBER	Keynote Strabag: TIMBER	Keynote Uhaselt/SuRE: REUSE	BBQ Party		



Week 1: 07.07. & 08.07.

Topic Earth constructions: Introduction

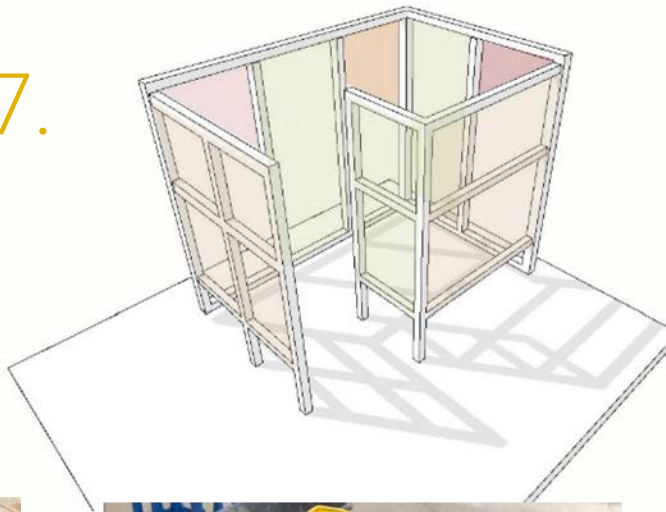
Activities Exploring different clay techniques;
Carrying out experiments



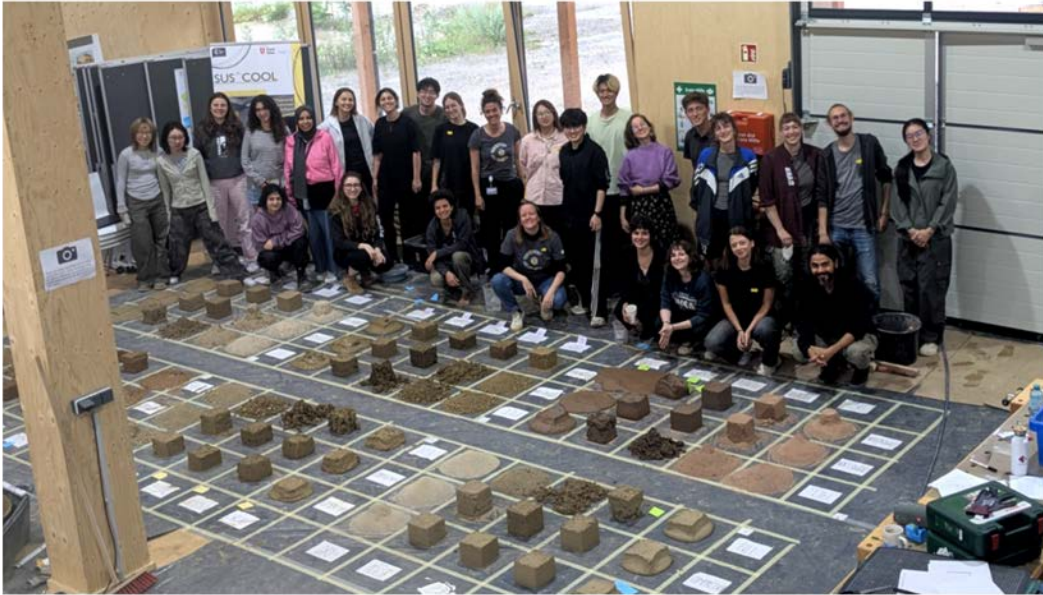
Week 1: 09.07. & 10.07.

Topic Earth construction

Activities Building a changing room, employing four different clay techniques



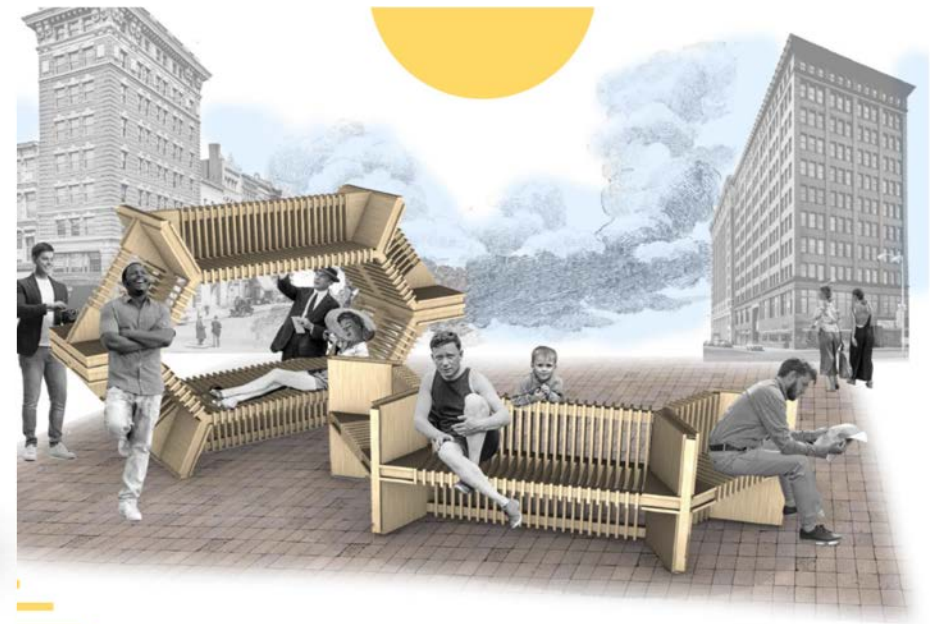
Week 1: 07.07. & 08.07.



Week 2: 14.07. & 15.07.

Topic Timber constructions:
Introduction & Object-Based Modularity
(Handcrafted and prefabricated)

Activities Realisation of Projects 4 and 5



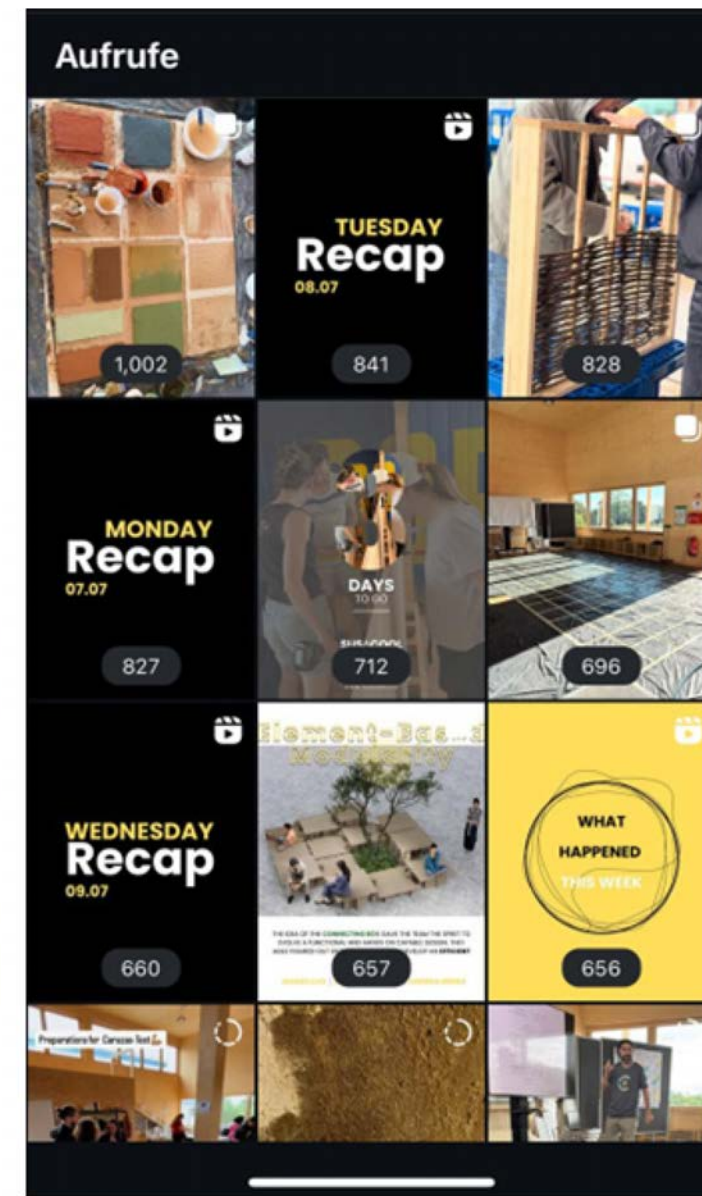
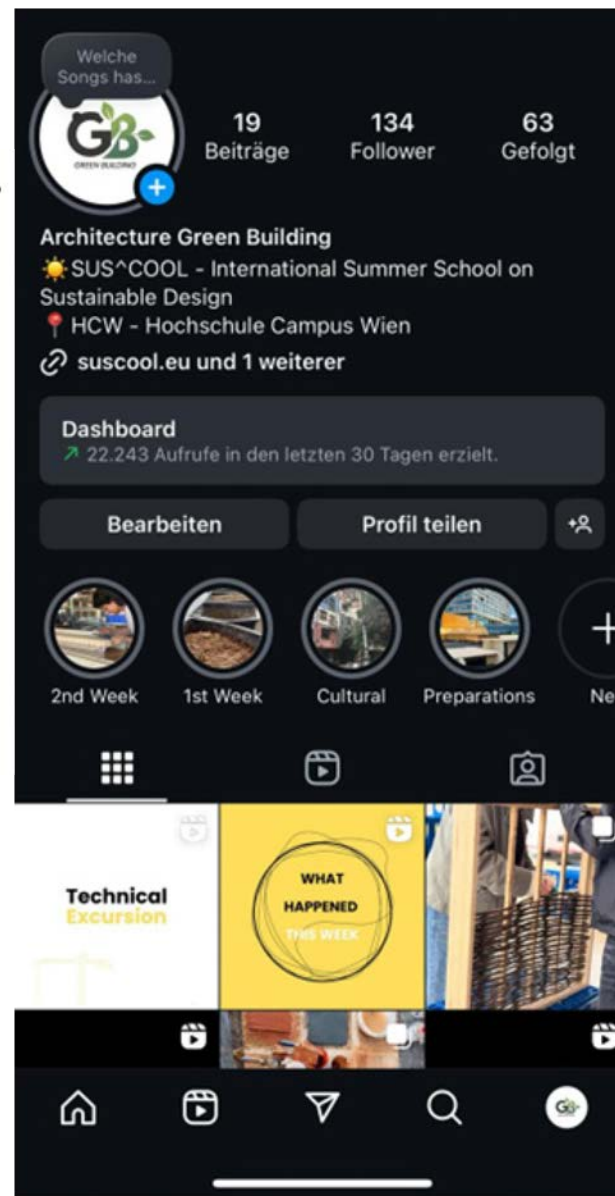
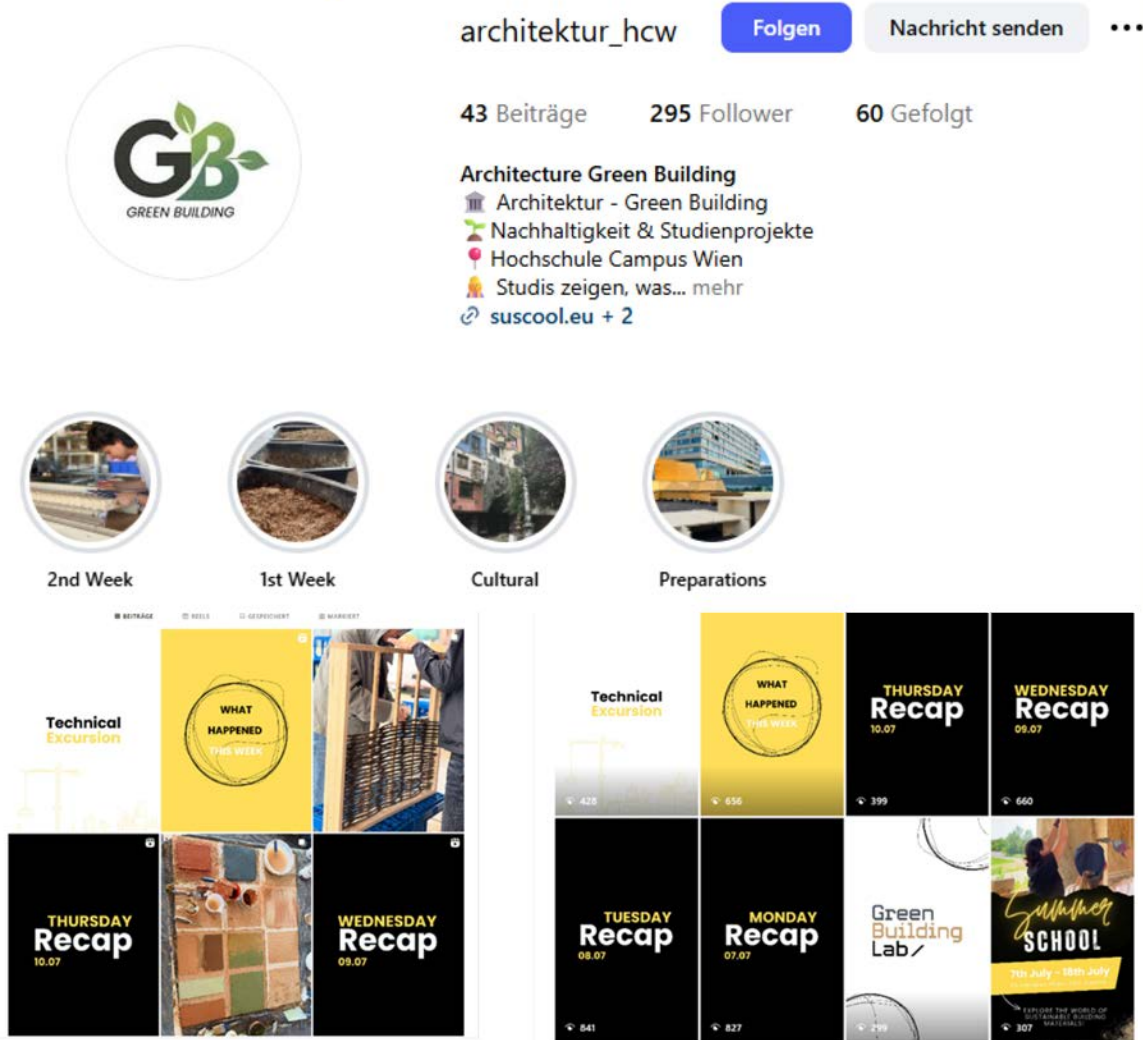
Week 2: 16.07. & 17.07.



BBQ Party on July 17 & Farewell on July 18



IG – @architektur_hcw



webpages

<https://suscool.eu>

<https://projekte.fh-campuswien.ac.at/greenbuildinglab>

<https://www.fh-campuswien.ac.at/studium-weiterbildung/studien-und-lehrgangsangebot/architektur-green-building-master.html>

newsletter

every 2-3 months – stay tuned!

contact

aida.santana_sosa@hcw.ac.at

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suscool@hcw.ac.at

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WELCOME to SUS^COOL

Unlock your potential and explore the world of sustainable, bio-based building materials!

Students from various countries and disciplines will participate in a unique hands-on learning experience, planning, building, and experimenting with bio-based materials, innovative techniques and approaches. **Apply now!**



17.01.2025

Our virtual lecture program is online!

Exciting news! The program for our **virtual lecture series** is now live. Get ready for inspiring talks on **sustainable building**, **circular design**, and **green innovation**. Check it out [here](#).

We can't wait to dive into these topics with you! Stay tuned and see you online!



21.11.2024

Showcasing sustainable innovation

Our **Competence Centre for Building and Design** recently presented its latest research activities, all centered around **sustainability** in construction. From cutting-edge materials to circular design strategies. We were also excited to highlight



15.01.2025

Registration closed!

A huge **thank you** for all your registrations! We're thrilled by the great interest and can't wait to welcome you.

Our students will hear from us soon—stay tuned! Looking forward to meeting you all and embarking on this exciting journey together!



21.11.2024

We have an own pavilion for suscool!

Fifth-semester architecture students took on the challenge of designing a sustainable pavilion for our SUS^COOL 2025. The multifunctional space will welcome visitors, display the event's logo, support registration, distribute materials, and



03.12.2024

Visit from Japan!

We were honored to welcome a **delegation from Japan** to our campus, where they visited our **Green Building Lab**. The visit sparked insightful discussions on **sustainable construction** and **circular building techniques**, highlighting shared global challenges and innovative solutions. Thank you for the visit—looking forward to future exchanges!



13.11.2024

Excursion to DPM Holzbau!

As part of the "Multi-Story Timber Buildings and Modular Construction" lecture, we had the opportunity to visit **DPM Holzbau**, where we gained valuable insights into **modular timber construction** and its applications in sustainable building. One of



sus^cool
Sustainable Design and Circular Construction
Building with Regional Renewable Materials
International Summer School 2025

Dear Community,
We're thrilled to announce that the application for our Summer School on bio-based building materials is now open! We hope you'll share the attached flyer with your students.
Thanks so much!
Our Summer School will also involve working with timber, earth, and straw, guided by top experts in the field. The virtual sessions, running from February to May 2025, will introduce students to these sustainable materials. Then, from July 7-20, 2025, they'll have the opportunity to build projects on-site at a 1:1 scale.



[Flyer sus^cool Summer School >>>](#)

[Application Link >>>](#)

For teaching needs, our Green Building Lab is now officially open! The workshop spans 200 square meters with a ceiling height of 5.5 meters, providing plenty of space for our students to experiment and create. Built from renewable materials, the structure can be fully dismantled and reassembled thanks to its modular design.

Currently, the Green Building Lab is being used to test various insulation materials in timber construction. Additionally, a research project is exploring the durability and resilience of green roof systems in timber buildings.

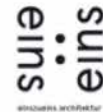
The workshop will serve as a key space for our Summer School and for test runs courses in the Green Building Master's program: Design | Build Studio and Design Handover. These courses offer students the unique opportunity to work with natural materials like clay, wood, and straw, building projects at full scale.



Sponsors



Cooperators



THANK YOU!

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