

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>Program Green.Building.Solutions. 2020 Status 14.07.2020</p> </div> <div style="text-align: center;">  <small>University of Natural Resources and Life Sciences, Vienna</small> </div> <div style="text-align: center;">  <small>TECHNISCHE UNIVERSITÄT WIEN Vienna University of Technology</small> </div> <div style="text-align: center;">  <small>oead student housing</small> </div> <div style="text-align: right;"> <p>ACTIVITY TYPE</p> <p style="background-color: #e0e0e0; padding: 2px;">SELF STUDY PERIOD</p> <p style="background-color: #f0f0f0; padding: 2px;">LIVE SESSION</p> </div> </div>						
Day	Date	Start	End	Activity / Topic	Lecturer & Session Moderator	
Preparation Work	Thursday	02.07	09:00	Individual assignments: Preparation Work		
	Friday	17.07	18:00	End Preparation Work		
Introduction & Orientation	Saturday	18.07	13:00 - 16:00	Orientation: introduction, program overview. Project work, onboarding. Intercultural training and ice-breaking activities. (1,5 h)	B. Mayr M. Turrini M. Bauer-Leeb	
	Sunday	19.07	13:00 - 16:00	Virtual Architectural City Tour of Vienna (film) (2 h) Live-discussion (0,5 h)	E. Quinn	
Week 1						
Module 0 Presentation of Preparation Work	Monday	20.07	08:00 - 09:00	Optional online welcome breakfast for GBS participants		
			09:00 - 12:00	Self Study Period - Module 1: Historical Development & International Green Building Design - Students prepare for presentations in the afternoon	Study content provided by G. Reinberg M. Treberspurg G. Lang	
			13:00 - 13:30	Check-in activity / energizing session	-	
			13:30 - 16:30	Presentations of Green Building by students (3 min) Feedback by professors after 5 presentations each (3 h)	K. Stieldorf G. Reinberg M. Turrini	
		17:00 - 20:00	Evening Reception AEMS & GBS in Vienna, Austria	S. Schulmeister L. Gewessler K. Stieldorf H. Kromp-Kolb G. Jedliczka Der Standard		
Introduction in Project Work 1	Tuesday	21.07	09:00 - 12:00	Introduction, Guidelines and Assignment in Project Design Work: - Introduction to the Otto Wagner Areal - Plans, documents, pictures - Division and first meeting in project groups	K. Stieldorf G. Lang	
			13:00 - 13:30	Check-in activity / energizing session	-	
Introduction in Project Work 2			13:30 - 14:30	Presentation and Introduction in Project Work (1 h) - Live Q & A about project work	K. Stieldorf G. Reinberg	
Module 1 Historical Development & International Green Building Design			14:45 - 17:00	Live talks by - The Architecture of 'Green Buildings' and Active House Design - Principles and Historical Development of Passive House Design - International Development of Passive Houses (30 min each) Panel discussion: Passive House and Green Buildings (30 min)	G. Reinberg (14:45-15:15) M. Treberspurg (15:15-15:45) G. Lang (15:45-16:15) D. Österreicher (panel starts at 16:30)	
Module 2 Urban Planning, Policy and Design	Wednesday	22.07	09:00 - 12:00	Project Work - Find your first ideas	Students	
			13:00 - 13:30	Check-in activity / session	-	
			13:30 - 16:00	Live Lecture & Discussion about „Planning for social mix“ - Input Part 1 (45 min) - Q&A session (15 min) *break* (15 min) - 45 Min. Input Part 2 (45 min) - Q&A (15 min) - Wrap up session (15 min)	Y. Franz E. Aufhauser	
Project Work	Thursday	23.07	09:00 - 12:00	Work in Project Groups - Initial Concept Design	Students	
			12:00 - 12:45	Yoga with Gabi		
			13:00 - 13:30	Check-in activity / energizing session	-	
Module 3 Energy Planning and Positive Energy Districts			13:30 - 16:15	Live talks - Energy planning in the City of Vienna - Integrated Spatial and Energy Planning - PositivEnergyDistricts (PED) (40 min each) Followed by discussion "Feasibility of positive energy districts in Vienna" (40 min)	S. Sattler (13:30-14:10) G. Stöglehner (14:10-14:50) S. Schneider (14:50-15:30) K. Stieldorf (TBC) (panel starts at 15:35)	
Project Work	Friday	24.07	09:00 - 12:00	Work in Project Groups: - Work on project - Prepare Initial Concept Presentations	-	
			13:00 - 13:30	Check-in activity / energizing session	-	
			13:30 - 15:00	Work in Project Groups: - Initial Concept Presentations (5 min per group) - Individual feedback of professors (10 min per group)	G. Reinberg K. Stieldorf M. Turrini	
Module 4 Sustainable design & ecological			15:15 - 16:45	Live lecture and Q & A: Building Information Modelling	A. Deralla	
			13:00 - 13:30	Check-in activity / energizing session	-	
	Saturday	25.07	13:30 - 15:30	Virtual visits to innovative urban areas - Introduction G. Reinberg (5 min) - Building tour Bike & Rails (25 min) - 10 ppt-slides with facts about the building / planning process - Interviews with inhabitants (TBC, Invitation Manuel, 10 min) - Round table with inhabitants and architect, Q&A at Bike & Rails (LIVE)	G. Reinberg Inhabitants B. Mayr / M. Turrini (panel starts at 14:45)	
Free Day	Sunday	26.07		Free Day!		

Week 2						
	Day	Date	Start	End	Activity / Topic	
Module 5 Construction Ecology Green Cities	Monday	27.07	09:00	12:00	Self study period - Lecture: Circular economy & recycling in the building sector (1 h) - Lecture: New materials (1 h) - Virtual tour to building renovation projects Kaiserstr 7 & Mariahilferstr. 82	J. Kisser U. Berardi G. Lang
			13:00	13:30	Check-in activity / energizing session	-
			13:30	17:00	- Q&A with U. Berardi and J. Kisser (0,5 h) Green roofs and buildings - Presentation Green Green roofs and green walls (0,5 h) - Virtual roof top garden tour on GrünStattGrau office (0,5 h) - Vienna city walk: Green roofs and green walls (1 h) - Final Q & A to all lecturers / discussion (1 h)	U. Berardi and J. Kisser (13:30-14:00) V. Enzi and S. Formanek (14:00-17:00) Moderation GSG
Module 6 Building Physics	Tuesday	28.07	09:00	12:00	Example of an award winning passive house: - Tour through TU Vienna Plus-Plus-Energy Office Building (Video Filmspektakel) - Introduction to building physics (study materials)	Content provided by L. Lepp P. Holzer D. Michulec
			13:00	13:30	Check-in activity / energizing session	-
			13:30	16:00	Live talks: - Sustainability assessment & quality assurance of passive houses - Building Systems and Building Physics - Climate sensitive design (30 min each) - Discussion "Climate adaptation and building certifications"	L. Lepp (13:30-14:00) D. Michulec (14:00-14:30) P. Holzer (14:30-15:00) All lecturers Moderation M. Turrini
Module 7 Innovative Energy Technologies	Wednesday	29.07	09:00	12:00	Self Study Period: - Key facts and short visits: Labs of the Austrian Institute of Technology	Students Study material provided by AIT lecturers
			13:00	13:30	Check-in activity / energizing session	-
			13:30	17:00	Live Lectures: - Heat pumps in green buildings - Solar Thermal systems and applications - Photovoltaic systems and application - AIT Energybase (40 min each) - Discussion with all AIT lecturers (45 min)	A. Zotti (13:30-14:10) M. Lauermann (14:10-14:50) M. Rennhofer (14:50-15:30) T. Selke (15:30-16:10) Moderation AIT (panel starts at 16:15)
			17:00	18:00	Optional Visit Private tour through apartment renovated in PH-Standard followed by Q & A with the owner	R. Schild B. Mayr / M. Turrini
Module 8 Building Simulations and Information Modelling	Thursday	30.07	09:00	12:00	Self study and preparation for building simulation workshops	Tasks and Exercises provided by A. Bres J. Leibold
			12:00	12:45	Yoga with Gabi	
			13:00	13:30	Check-in activity / energizing session	-
			13:30	15:00	Live lectures and demonstrations - Dynamic Thermal Simulations - Theory - Introduction Sefaira and Polysun Simulation - Tools	A. Bres J. Leibold
			15:10	17:10	Virtual building tours and lecture - TÜWI and BOKU New Seminar Centre Wood construction (30 min each) - Discussion on the spot: "Planning & Design vs Operations Phases - What's the most important for sustainable buildings" (1 hour, topic tba)	R. Smutny (15:10-15:40) C. Falkner (15:40-16:10) Moderation
Friday	31.07	09:00	12:00	Individual project work in groups - Technical preparation for afternoon session (installation of software, ...)	Tasks and Exercises provided by A. Bres J. Leibold	
		13:00	13:30	Check-in activity / energizing session	-	
		13:30	16:00	Live lectures and demonstrations (Sefaira / Polysun in parallel) - Dynamic Thermal Simulations - Deepening (Sefaira / Polysun) / Project Work Workshop: Dynamic Thermal Simulations - Deepening (Sefaira / Polysun) / Project Work	A. Bres J. Leibold	
Module 9 Daylight Engineering	Saturday	01.08	09:00	12:00	Self Study period with pre-recorded lectures - Daylight Engineering - Designing with Daylight	Study material provided by G. Radinger M. Turrini
			13:00	13:30	Check-in and Q&A with G. Radinger and M. Turrini	-
			13:30	17:00	Daylight around the world - Daylight Concepts at different times of the day - Daylight at your workplace	G. Radinger M. Turrini
Free Day	Sunday	02.08			Free Day	
Week 3						
	Day	Date	Start	End	Activity / Topic	

Project Work	Monday	3.08.	09:00	12:00	- Urban development of the Lakeside City Aspern, Aspern IQ and virtual city walk (1 h) - Introduction of the OeAD GreenHouse / Popup Dorms (films)	Study material provided by M. Mitterwallner G. Lang OeAD-WV
			13:00	13:30	Check-in activity / energizing session	-
Module 10 City Development			13:30	16:30	Short inputs for project work - Heritage Protection in Austria - Student living and planning aspects / GreenHouse Q&A about student housing and project work	S. Schönolt (13:30-14:00) M. Feirer (14:00-14:45) K. Stieldorf / G. Lang / G. Reinberg (panel starts at 14:50)
Project Work / Building Simulations	Tuesday	04.08	09:00	12:00	Project Work In Groups / Break Out Sessions	
			13:00	13:30	Check-in activity / energizing session	-
			13:00	17:00	Project Work: - Individual Feedback to Groups by Experts - Supervision Building Simulation / Energy Concept	K. Stieldorf G. Reinberg M. Turrini
	Wednesday	05.08	09:00	12:00	Project Work In Groups / Break Out Sessions	
			13:00	13:30	Check-in activity / energizing session	-
			13:00	17:00	Project Work: - Individual Feedback to Groups by Experts - Supervision Building Simulation / Energy Concept	K. Stieldorf G. Reinberg M. Turrini
	Thursday	06.08	09:00	12:00	Project Work In Groups / Break Out Sessions	
			12:00	12:45	Yoga with Gabi	
			13:00	13:30	Check-in activity / energizing session	-
			13:00	17:00	Project Work: Interim Presentations - Individual Feedback to Groups by Experts - Supervision Building Simulation / Energy Concept	K. Stieldorf G. Reinberg M. Turrini A. Bres J. Leibold
	Friday	07.08	09:00	12:00	Project Work In Groups / Break Out Sessions	
			13:00	13:30	Check-in activity / energizing session	-
		13:00	17:00	Project Work: Final preparation phase - Individual Feedback to Groups by Experts - Supervision Building Simulation / Energy Concept	K. Stieldorf G. Reinberg M. Turrini A. Bres J. Leibold	
Final Presentation and Farewell	Saturday	08.08	09:00	12:00	Project Work: Individual Preparation for Presentation	
			13:00	13:30	Check-in	-
			13:30	18:00	Final Student Project Presentation	K. Stieldorf G. Reinberg J. Leibold (TBC) Location (TBA) Moderator (TBA) M. Turrini
			18:00	20:00	Certificate Ceremony and Farewell Party! (Feedback of students, final statements)	Students Sponsors Partners Heads Moderator (TBA)
	Sun	09.08	until	13:00	Free day!	