

Schedule of Lessons*
Status: 21.08.2024_bld

Module	Date	Day	Hour	Class-room Lessons	Online Lessons	Topic	Lecturer	University, Company	Location
M1 Networking	DAY 1	24.10.2024	Thursday	09:00-12:30	4	Introduction to the program, modalities of proof of competence, expectations. Presentation of past CAS projects: lessons learnt by Alumni. Networking between students and sponsors, journalists and among each other.	Prof. Dr. Adrian Wildenauer, Dr. Mariana Melnykovich, Core Team and Alumni	BFH	Biel (Auditorium)
				13:30-16:15	3	Team building for projects work. Introduction to CAS Project work. Introduction to Moodle.	Prof. Dr. Adrian Wildenauer, Dr. Mariana Melnykovich, Ms. Danja Brechbühler, Core Team	BFH	
M2 Structural Engineering	DAY 2	29.10.2024	Tuesday	09:00-11:45	3	Reconstruction of buildings temporary and permanent in Ukraine. Architecture in Ukraine. Architecture in war time. Participatory architecture and its benefits	Ms. Olena Orap		Biel
M4 Interdisciplinary topics				11:45-14:15	2	National and international reconstruction projects. Policies and tools for reconstruction. DREAM platform. Political and legal frameworks conditions for the rebuilding process in Ukraine	Ms. Alevtyna Serdiuk	Swisscontact	
M1 Networking				14:15-15:00	1	Cross-Cultural Communication and Cultural Understanding: A Comparison of Ukraine and Switzerland on business ethics	Ms. Alevtyna Serdiuk	Swisscontact	
M3 Engineering Infrastructure	DAY 3	30.10.2024	Wednesday	09:00-10:30	2	Integrated Risk Management and Critical Infrastructure Protection	Dr. Stefan Brem (FOCP) and TBD	Federal Office for Civil Protection FOCP	Biel
				11:00-12:30	2	Multifunctional protection spaces for Ukraine	Alla Olynyk and Olena Orap (input from CAS II projects) in collaboration with Swiss Center for Design and Health		
				13:30-17:00	excursion	Bombshelters in Switzerland: Excursion to Civil Protection Facility in Lyss organised by Swiss Federal Office for Civil Protection	Mr Markus Brunner, Federal Department of Defence, Armed Forces Staff; Mr Andres Zwaalen, Secretary General of the municipalities association of public security in the Aargau region; Mr Stefan Hofmann, responsible for the CP Facility Lyss; Mr Roland Bollin, expert for building/planning civil protection buildings at the Federal Office for Civil Protection FOCP	Bombshelter in Lyss	
Self-study: students to research on ongoing Swiss projects in Ukraine (mapping Swiss reconstruction efforts in UKR). Work with Core Team/ coaches on project topics. Groups composition for project work.									
M4 Interdisciplinary topics	DAY 4	05.11.2024	Tuesday	09:00-10:30	2	Sustainability in rebuilding process. 17 SDGs, Green Deal and power of Social Innovations. Gender Equality. ESG	Dr. Mariana Melnykovich	HAFL-BFH	Zollikofen
				11:00-11:45	1	Sustainability in Building Design and Function. Excursion Around the Campus of Agriculture, Forestry, and Food Sciences. Excursion	Dr. Mariana Melnykovich and Mr. Julius Weiss	HAFL-BFH	
				11:45-12:30	1	Environmental impact assessment of the war actions: forest and landscapes	Prof. Dr. Sergiy Zibtzev	NUBIP Kyiv	
				13:30-14:15	1	Environmental impact assessment of the war actions: agricultural sector	Dr. Olena Melnyk	Sumy Agrarian University	
				14:15-15:00	1	Green Deal and other policies for "green" rebuilding	Dr. Olena Melnyk	Sumy Agrarian University	
M2 Structural Engineering	DAY 5	06.11.2024	Wednesday	09:00-10:30	2	Recycling of War Debris after World War II: lessons learnt in Poland	Dr. Adam Przywara	Université de Fribourg	Rubigen - Kästli
				11:00-11:45	1	Concrete recycling and application in Ukraine	Prof. Dr. Viacheslav Trojan and input from CAS Project on recycling	ETHZ/ Kyiv Institute of Construction	
				11:45-14:15	2	Decentralised recycling in Ukraine: input from CAS project and SCAT	Iryna Kilko and SCAT	SKAT	
				14:15-16:15	2	Concrete Laboratory: Sustainable concrete recycling. Carbon capture in concrete recycling	Dr. Daniel Kästli	Kästlibau AG	
Self-study and Project Idea Development. Readings of Reports on War damage; Law and regulations in Ukraine to support the recovery. Work on Project Proposals in Groups.									
M3 Engineering Infrastructure	DAY 6	12.11.2024	Tuesday	online	1	Mapping of the energy sector in Ukraine. Assessment of energy infrastructure recovery	Dr. Iryna Sotnyk	University of Geneva	ETH, Zurich
				09:00-10:30	2	Sustainable and renewable energy concepts (solar, wind, hydro, geothermal)	Dr. Mirjam Sick	Pointnair & ETH Zurich	
				11:00-12:30	2	Sustainable & renewable energy concepts. HVAC in buildings	Ms. Olena Tutova	ETH Zurich	
M3 Engineering Infrastructure	DAY 7	13.11.2024	Wednesday	13:30-16:15	3	Recent developments in energy technology in Switzerland towards affordable, clean, and reliable energy solutions	Dr. Christian Schaffner and ETH Energy Science Center	ETH Zurich - Energy Science Center	Winterthur-Implenia
M4 Interdisciplinary topics				9:00-11:45	3	Lokstadt Winterthur: Sustainable urban district development, timber construction, 2000 Watt	Mr. Karel Van Eechoud	Implenia	
Self-study and Project Idea Development. Work on Project Proposals. Draft-project applications submitted by students									
M4 Interdisciplinary topics	DAY 8,9,10	week of 20-25 of Nov	tbd			NEW: Module of Swisspeace: Dialogs, negotiation, adaptive planning, social cohesion, conflict sensitivity analysis, conflict mitigation and facilitation, practical experience on how to address problems / conflict cases, dialog, etc (3 days)			
Self-study: Initial project applications reviewed by Core Team (by TBD). Pitching the project ideas by the students groups (online on TBD from 2pm till 4pm)									
M4 Interdisciplinary topics	DAY 11	09.12.2024	Monday	09:00-12:30	4	Project Management, Part 1	Prof. Peter Scherer	FHNW	FHNW
				13:30-17:00	4	Project Management, Part 2	Prof. Peter Scherer	FHNW	
	DAY 12	10.12.2024	Tuesday	09:00-17:00	8	NEW: Module on Nature Recovery / AGRI MODULE by HAFL			Zollikofen
Self-study: Project Proposals refinements. Stakeholders analysis. Analysis of framework conditions in Ukraine. Preparation for second project pitching.									
M2 Structural Engineering	DAY 13	13.01.2025	Monday	09:00-15:00	6	Introduction to timber construction: basics, construction techniques, hybrid constructions, performance capabilities. EU Bauhaus project. Housing solutions for multiple usage. Modular buildings. Current trends in Europe in construction. Wooden construction.	Prof. Dr. Cornelius Oesterlee	BFH	Biel
				15:30-17:00	2	Timber as construction material. Circular Economy and Bioeconomy/ Biocities: application in Ukraine	Prof. Dr. Orest Klyko / Prof. Dr. Ihor Soloviy	UNFU - Ukrainian National Forestry University	
M2 Structural Engineering	DAY 14	14.01.2025	Tuesday	09:00-12:30	4	Modular, temporary, flexible - learning and playing spaces for children	Dr. Selina Lutz and Mr. Matias Penroz	HSLU	Lucerne - Horw
				13:30-17:00	4	Sufficiency, efficiency, reduction - housing typologies in small scale	Dr. Selina Lutz and Mr. Matias Penroz	HSLU	
Self-study: Second phase of pitching project proposals (online 20.01.2025 (or offline) together with coaches - e.g. one day in AHB) (after this supervisors for projects agreed)									
Different excursions according to project topics (to be organised on request) Work on projects									
M3 Engineering Infrastructure	DAY 15	17.02.2025	Monday	09:00-12:30	4	Water sanitation and water infrastructure	TBD, requested	EAWAG	Rapperswil - Geberit
				13:30-14:15	1	Restoration of water infrastructure and water supply in Ukraine with Swiss WASH program. Features of Swiss Humanitarian Aid in Ukraine by DEZA	Mr. Chris Middleton (DEZA) with online connection with representative from Kyiv	DEZA	
				14:15-17:00	3	Water supply: provisional and definite solutions. Swiss-UKR projects - connection with UKR facility of Geberit. Excursion in the facility of GEBERIT	Mr. Remo Zwick and Geberit Switzerland and Geberit Ukraine team	GEBERIT Schulungszentrum	
M2 Structural Engineering	DAY 16	18.02.2025	Tuesday	09:00-12:30	4	Damage analysis and decision taking "restoration or demolition and new construction"	Prof. M. Beth & Prof. S. Stürwald	FH OST	Rapperswil
				13:30-15:00	2	Reconstruction / design of traffic routes, roads, railway, bridges, passages	Prof. Dr. Ivan Marković	FH OST	
				15:30-17:00	2	Reconstruction / static assessment and re-use of building material	Prof. M. Beth & F. Gähler	FH OST	
M1 Digital Skills in Construction	DAY 17	19.02.2025	Wednesday	09:00-12:30	4	Digitalisation of building with BIM methods	Prof. Mark Baldwin, Prof. Dr. Adrian Wildenauer	HSLU, BFH	Biel
				13:30-17:00	4				
Self-study: Work on Projects with coaches and supervisors. Different excursions according to project topic to be organised on request									
M1 Digital Skills in Construction	DAY 18	17.03.2025	Monday	09:00-12:30	4	Scanning (BIM2field, Field2BIM), X-ray-Analyses	Mr. Pius Winteler	FARO Swiss GmbH	SCDH, Nidau
				13:30-17:00	4	Swiss Center for Design and Health (SCDH)	SCDH, tbd	SCDH	
M1 Digital Skills in Construction	DAY 19	18.03.2025	Tuesday	09:00-12:30	4	Digitalisation of building with BIM methods, incl. Exam bSI-Certificate	Prof. Mark Baldwin, Prof. Dr. Adrian Wildenauer	HSLU, BFH	Biel
Self-study: Work on Projects with coaches and supervisors. Project progress updates. Session on features of CAS final report preparation, video-pitch and ppt for final colloquium. Self-study: Work on Projects with coaches and supervisors. Project progress report									
M3 Engineering Infrastructure	DAY 20	31.03.2025	Monday	09:00-12:30	4	uptownBasel "international competence centre for industry 4.0". Input from architects on approaches to construction of techparks. Excursion to the building sites	Ms. Iria Boullosa	uptownBasel, FANKHAUSER AG	uptownBasel
				13:30-14:15	1	Circular construction with and for reuse	Mr. Karl Martin	SUMAMI	
M4 Interdisciplinary topics	DAY 21	01.04.2025	Tuesday	14:15-17:00	3	Foundations and Philanthropy to support projects implementation	Dr. Potluka Oto	Center for Philanthropy - University of Basel	Niederbipp by Bus
M4 Interdisciplinary topics				09:00-10:30	2	Supply chains, role of trade, procurement, international trading of Wood and wood-based materials for construction in Switzerland	Ms. Corinne Kuratle, Ms. Lisa Laggner	Kuratle Academy	
				11:00-14:15	3	Prevention of Corruption	Prof. Dr. Michael Derrer	HSLU	
				14:15-17:00	3	Prevention of Corruption	Dr. Marc Steiner	Federal Admin. Court	
DAY 22: In-person meeting at AHB with coaches/ Core Team to work on projects. Self-study									
Self-study: Work on Projects. CAS-project report preparation									
M4 Interdisciplinary topics	Additional DAY 23	16.04.2025	Wednesday	09:00-12:30		Company Day / Networking for Projects	Ms. Daniela Odermatt, Mr. Krys von Bronk, SIKA-Ukraine (online)	SIKA- international, presentation & connection to Ukraine-SIKA-Team	tbd / to be hosted by a company
				13:30-17:00			SIKA, BKW, HUBER, XXX- active in UKR companies; HELVETAS - projects in Ukraine for reconstruction		
Self-study: Work on CAS-projects reports, video-pitches, presentations (with coaches and supervisors)									
M4 Interdisciplinary topics	DAY 24	09.05.2025	Friday	09:00-17:00	8	Final Colloquium		BFH	Biel (Auditorium)

*Subject to change

134

Morning: 10:30 - 11:00
Noon: 12:30 - 13:30
Afternoon: 15:00 - 15:30