

Schedule of Lessons*
Status: 24.10.2024_bld

Module	Date	Day	Hour	Class-room Lessons	Online Lessons	Topic	Lecturer	University, Company	Location
M 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)
				13:30-17:00	3		Team building for projects work. Introduction to Moodle.	Prof. Dr. Adrian Wildenauer, Dr. Mariana Melnykovich, Ms. Danja Brechbühler, Core Team	
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	
				14:15-15:00	1	Cross-Cultural Communication and Cultural Understanding: A Comparison of Ukraine and Switzerland on business ethics	Ms. Alevtyna Serdiuk	Swisscontact	
M1 Networking				15:30-17:00	2	Networking. Building teams for project work. Criteria for CAS projects development (co-creation and participatory planning, stakeholder analysis, Logframe, ToC, SMART, sustainability, circularity).	Dr. Mariana Melnykovich and Prof. Dr. Adrian Wildenauer	BFH	
M3 Engineering Infrastructure	DAY 3	30.10.2024	Wednesday	08:00-09:30	2	Integrated Risk Management and Critical Infrastructure Protection	Dr. Stefan Brem	Federal Office for Civil Protection FOCP	Biel
				10:00-11:30	2	Multifunctional protection spaces for Ukraine	Ms. Maryna Metzger and Ms. Olena Orap (input from CAS II projects in collaboration with Swiss Center for Design and Health)	CAS Alumni	
				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, Mr Stefan Hofmann	Federal Department of Defence, Armed Forces Staff; Mr Andres Zwahlen, Secretary General of the municipalities association of public security in the Aarberg region; and CP Facility 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	Dr. Mariana Melnykovich	HAFL-BFH	
				11:45-12:30	1	Environmental impact assessment of the war actions: forest and landscapes	Prof. Dr. Sergiy Zibtev	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	
Self-study: self-organised work in groups									
M2 Structural Engineering	DAY 5	06.11.2024	Wednesday	09:00-10:30	2	Concrete Reuse in Reconstruction: ongoing project in Ukraine (SKAT, EPFL's Structural Exploration Lab and the Ukraine Waste Recycling Association). Exploring decentralised recycling in Ukraine: input from CAS project	Dr Maléna Bastien Masse, Research associate, EPFL Structural Exploration Lab; Valerii Kotsiuba, Member of the Board, Waste Recycling Association of Ukraine; Dr André Ullal, Building Specialist, SKAT; Fabienne Hugi, Building Specialist, SKAT; Iryna Iakhno (input from CAS II project on decentralised recycling)	SKAT and CAS Alumni	Rubigen - Kästli
				11:00-11:45	1	Concrete recycling and application in Ukraine	Prof. Dr. Viacheslav Trojan	ETHZ/ Kyiv Institute of Construction	
				11:45-14:15	2	Recycling of War Debris after World War II: lessons learnt in Poland	Dr. Adam Przywara	Université de Fribourg	
				14:15-16:15	2	Concrete Laboratory: Sustainable concrete recycling. Carbon capture in concrete recycling	Dr. Daniel Kästli	Kästlibau AG	
				excursion			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	08:00-09:00	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	Reconstruction / design of traffic routes, roads, railway, bridges, passages	Prof. Dr. Ivan Marković	FH OST	
				11:00-12:30	2	Sustainable and renewable energy concepts. HVAC in buildings	Ms. Olena Tutova	ETH Zurich	
				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	
M3 Engineering Infrastructure	DAY 7	13.11.2024	Wednesday	8:30-11:45	3	Lokstadt Winterthur: Sustainable urban district development, timber construction, 2000 Watt	Mr. Karel Van Echoud	Implenla	Winterthur-Implenla
M4 Interdisciplinary topics				13:30-16:15	3	Impact Orientation. Projects impact and outcomes	Dr. Petra Bättig-Frey	ZHAW	ZHAW
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 8	09.12.2024	Monday	09:00-12:30	4	Project Management, Part 1	Prof. Peter Scherer	FHNW	Brugg Windisch
				13:30-17:00	4	Project Management, Part 2	Prof. Peter Scherer	FHNW	
Self-study: Project Proposals refinements. Stakeholders analysis. Analysis of framework conditions in Ukraine. Preparation for second project pitching.									
M4 Interdisciplinary topics	DAY 9	10.12.2024	Tuesday	09:00-17:00	8	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, etc	Dr. Tobias Hagmann, Ms. Omar Metwally, Ms. Alexandra Wedl	Swisspeace	Biel or Zollikofen tbc
M2 Structural Engineering	DAY 10	13.01.2025	Monday	09:00-10:30	2	Timber as construction material. Circular Economy and Bioeconomy/ Biocities: application in Ukraine	Prof. Dr Orest Kiyko (and Prof Dr Ihor Soloviy)	UNFU - Ukrainian National Forestry University	online
				11:00-17:00	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.	Mr. Matias Penroz	BFH	
M2 Structural Engineering	DAY 11	22.01.2025	Wednesday	09:00-12:30	4	Modular, temporary, flexible - learning and playing spaces for children	Dr. Selina Lutz	HSLU	Lucerne - Horw
				13:30-17:00	4	Sufficiency, efficiency, reduction - housing typologies in small scale	Dr. Selina Lutz	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 12	17.02.2025	Monday	09:00-12:30	4	Water sanitation and water infrastructure	tbc	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 in Ukraine. Online input from UKR office of Geberit. Excursion in the facility of GEBERIT	Mr. Christoph Blatter; Geberit Switzerland and online - Geberit Ukraine team	GEBERIT Schulungszentrum	
M2 Structural Engineering	DAY 13	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	Sustainable and renewable energy concepts (solar, wind, hydro, geothermal)	Dr. Mirjam Sick	Pointnair & ETH Zurich	
				15:30-17:00	2	Reconstruction / static assessment and re-use of building material	Prof. M. Beth & F. Gähler	FH OST	
M Digital Skills in Construction	DAY 14	19.02.2025	Wednesday	09:00-12:30	4	Digitalisation of building with BIM methods	Prof. Dr. Adrian Wildenauer	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									
M Digital Skills in Construction	DAY 15	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)	Mr. Stefan Sulzer, Dr. Monika Codourey, Mr. David Wollschlegel	SCDH	
				M Digital Skills in Construction	DAY 16	18.03.2025	Tuesday	09:00-12:30	
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 17	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 Boulosa and architects in FANKHAUSER AG	uptownBasel, FANKHAUSER AG	uptownBasel
				13:30-14:15	1	Circular construction with and for reuse	Ms. Anna Buser	SUMAMI	
M4 Interdisciplinary topics	DAY 18	01.04.2025	Tuesday	14:15-17:00	3	Foundations and Philanthropy to support projects implementation	Dr. Oto Potluka	Center for Philanthropy - University of Basel	Biel
09:00-12:30				4	Prevention of Corruption	Prof. Dr. Michael Derrer	HSLU		
M4 Interdisciplinary topics				13:30-15:00	2	Prevention of Corruption	Dr. Marc Steiner	Federal Admin. Court	
M4 Interdisciplinary topics	DAY 19	tbc		13:30-17:00	2	Sustainable public procurement	Dr. Marc Steiner	Federal Admin. Court	Zollikofen
M4 Interdisciplinary topics				09:00-17:00	8	NEW: Module on post-war Nature Recovery	team of the School of Agriculture, Forestry and Food Sciences HAFL	School of Agriculture, Forestry and Food Sciences HAFL, BFH	
DAY 20: In-person meeting at AHB with coaches/ Core Team to work on projects. Self-study									
Self-study: Work on Projects. CAS-project report preparation									
M Networking	DAY 21	16.04.2025	Wednesday	09:00-12:30		Company Day / Networking for CAS Projects	Ms. Daniela Odermatt, Mr. Krys von Bronk, SIKA-Ukraine (online)	SIKA, SIKA-Ukraine, HUBER, Divario, BKW, and other businesses, upon invitation and based on the relevance of their expertise to CAS projects	tbd / to be hosted by a company (BKW or Huber tbc)
				13:30-17:00			SIKA, BKW, HUBER, other companies active in UKR, HELVETAS - projects in Ukraine for reconstruction		
Self-study: Work on CAS-projects reports, video-pitches, presentations (with coaches and supervisors)									
M Networking	DAY 22	07.05.2025	Friday	09:00-17:00	8	Final Colloquium		BFH	Biel (Auditorium)

*Subject to change
** days for must to attend inperson lessons (additional excursions will be communicated during the study)
Morning: 10:30 - 11:00
Noon: 12:30 - 13:30
Afternoon: 15:00 - 15:30