

Certificate of Advanced Studies in Water, Sanitation and Hygiene for humanitarian and developing contexts Academic year 2023-24 – 5th Edition

Draft – Program and content might be susceptible to small changes

Kick-off meeting

Date	Time (CET)	Unit title	Speaker(s)
15.02.2024	1 – 4:30 pm	<ul style="list-style-type: none"> ▪ Kick off meeting: team building, course objectives and agenda 	whole team

Module 1 – Drinking water and public health (online)

Date	Time (CET)	Unit title	Speaker(s)
22.02.2024	1 – 4:30 pm	<ul style="list-style-type: none"> ▪ Introduction: water quality and public health ▪ Water borne diseases ▪ GRUPE WORK with assignment (2 hours) 	Valsangiacomo
29.02.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ SDG 6 ▪ WHO drinking water guidelines/ sanitary inspection of WASH facilities 	Valsangiacomo
07.03.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Key concepts and actions during Emergency ▪ Chlorination – safe water in emergencies ▪ Water safety plans 	Friedl
14.03.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Origin of chemicals in water and their relevance for human health ▪ The basic principles of toxicology (derivation of WHO limit values) ▪ Analytical applications in the field (and beyond in the lab) ▪ Basic treatment technologies 	Andreas Peter
21.03.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Legal/regulatory aspects and water pricing ▪ Anthropological aspects related to WASH ▪ GRUPE WORK with assignment (2 hours) 	Valsangiacomo
28.03.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Exam 	Valsangiacomo

Module 2 – Environmental Sanitation (online)

Date	Time (CET)	Unit title	Speaker(s)
11.04.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Introduction to Environmental sanitation ▪ Urban infra challenges ▪ Sanitation value chain 	Christoph Lüthi
18.04.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Technology choice ▪ On-site sanitation & constructed wetlands 	Dorothee Spuhler
25.04.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Sanitation in Emergencies ▪ Behaviour change ▪ Group Exercise 	Sara Ubbiali, Christopher Friedrich
02.05.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Solid waste management for emergencies 	Dorian Tosi Robinson
16.05.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Sanitation & public health 	Dorothee Spuhler
23.05.2024	1 - 4:30 pm	<ul style="list-style-type: none"> ▪ Exam 	Christoph Lüthi, Sara Ubbiali

Module 3 – Sustainable water supply (online)

Date	Time (CET)	Unit title	Speaker
30.05.2024	1 - 4:30 pm	<ul style="list-style-type: none"> Introduction to sustainable water supply in humanitarian and development contexts: from rural to urban water supply Introduction to applied hydrogeology: Water balance 	Milnes Pronk
06.06.2024	1 - 4:30 pm	<ul style="list-style-type: none"> Water resource assessment: Groundwater systems and groundwater flow, groundwater monitoring Water resource and water safety planning 	Milnes Pronk
13.06.2024	1 - 4:30 pm	<ul style="list-style-type: none"> Groundwater exploration: Geophysical investigation methods Selected key issues in well construction relevant for well assessment 	Milnes Pronk
20.06.2024	1 - 4:30 pm	<ul style="list-style-type: none"> Groundwater exploitation : from pumping tests to cost estimation/optimisation 	
27.06.2024	1 - 4:30 pm	<ul style="list-style-type: none"> Introduction to settlement planning with focus on WASH infrastructure: introduction to Module 4 (the content of this session will not be part of the exam) 	Cippà
28.06.2024 Friday	1 - 4:30 pm	<ul style="list-style-type: none"> Exam 	Milnes

Module 4 – Practical fieldwork (on site), Ticino, Switzerland

The practical module will take place in the Swiss Italian Canton of Ticino, near Mendrisio (headquarter SUPSI), in the surrounding mountain area of monte San Giorgio ([UNESCO site](#)). All participants will be hosted at [Ca' Stella](#), an historic residence situated in the beautiful and picturesque neighbourhood of Meride. The course will last a full week and will feature many hands-on activities, socialization among students, peer learning, professional and leisure visitings.

Date	Time (CET)	Unit title	Speaker
27.09.2024	All day	<ul style="list-style-type: none"> ▪ Arrival at venue (Mendrisio/Meride) - Closest train station: Mendrisio - Closest airport: Milan Malpensa (MXP; LIMC) - We will assist you! 	-
28.09.2024	All day	<ul style="list-style-type: none"> ▪ In case of failure of previous written exams: oral make-up test (can be done later in the week) ▪ Local excursion and team building 	whole team
29.09.2024 to 04.10.2024	All day	<ul style="list-style-type: none"> ▪ Practical field work 	whole team
04.10.2024	Evening	<ul style="list-style-type: none"> ▪ Closing ceremony; delivery of certificates 	whole team
05.10.2024	Morning	<ul style="list-style-type: none"> ▪ Packing materials, closing the venue, Evaluation, wrap-up, departures not earlier than 11:00 – 12:00 	whole team