

WAT course: weekly timetable

Version
2.9.2022

WHAT? Weekly timetable for the common course of WAT Master's Programme. Large part of learning activities are done in groups: students are divided into the groups at the beginning of the course.

WAT COURSE? WAT-E1100 is a 15-credit course. It introduces the key themes and broader context related to water and environmental engineering, and focuses also on the key computational methods and problem-solving approaches related to water and environmental engineering.

ASSIGNMENTS? WAT Course includes Contact Sessions as well as two types of assignments: **Tasks** are related to the key themes and broader context, and **Weekly Exercises** to the methods and problem-solving approaches. Tasks are mainly done in groups or pairs, while Weekly Exercises are usually done individually.

WEEKLY TIMETABLE: WAT-E1100 Water and Environmental Engineering

1st WEEK	Global natural resources (Matti, Olli, Matleena) + Intro (Marko)				
	Mon 5.9.	Tue 6.9	Wed 7.9	Thu 8.9	Fri 9.9
Morning (9.00-)	CONTEXT SESSION: Intro + group work practices [Marko]	CONTACT SESSION: sustainability, global resources + SGT cases [Olli & co]	THEMATIC TASK: individual / group work	WEEKLY EXERCISE: statistical analysis	WEEKLY EXERCISE: Individual / group work
<i>DRAFT SHOWING THE OVERALL STRUCTURE: FINAL SCHEDULE IN MYCOURSES' WEEKLY SUB-PAGE</i>					
Afternoon (-4pm)	CONTACT SESSION: global water issues [Matti]	CONTACT SESSION: sustainability, global resources + SGT cases [Olli & co]	THEMATIC TASK: SWOT wrap-up [Matti & co]	WEEKLY EXERCISE: Individual / group work	WEEKLY EXERCISE: statistical analysis
2nd WEEK	Water resources management & hydrology (Harri & co)				
	Mon 12.9.	Tue 13.9.	Wed 14.9.	Thu 15.9.	Fri 16.9.
Morning (9.00-)	CONTACT SESSION: water resources management & hydrology [Harri & co]	THEMATIC TASK: HBV modelling [Harri]	WEEKLY EXERCISE: modelling	WEEKLY EXERCISE: Individual / group work	THEMATIC TASK: individual / group work
<i>DRAFT SHOWING THE OVERALL STRUCTURE: FINAL SCHEDULE IN MYCOURSES' WEEKLY SUB-PAGE</i>					
Afternoon (-4pm)	CONTACT SESSION: water resources management & hydrology [Harri & co]	THEMATIC TASK: individual / group work	WEEKLY EXERCISE: modelling	WEEKLY EXERCISE: modelling	THEMATIC TASK: HBV wrap-up [Harri]
3rd WEEK	Environmental hydraulics (Juha)				
	Mon 19.9.	Tue 20.9.	Wed 21.9.	Thu 22.9.	Fri 23.9.
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Morning (9.00-)	CONTACT SESSION: Environmental hydraulics & hydro-environmental engineering solutions [Juha]	Flume group 1 @ 9:00-10:00 Flume group 2 @ 10:30-11:30 Flume group 3 @ 13:00-14:00	Flume group 4 @ 9:00-10:00 Flume group 5 @ 10:30-11:30 Flume group 6 @ 13:00-14:00	Online helpdesk 10:00-12:00 for flume assignment (optional attendance) Individual / group work	CONTACT SESSION: flume assignment wrap-up
Afternoon (-4pm)	CONTACT SESSION: Experimental methods and data analyses; Intro to flume assignment	When your group is not attending a teaching session, you should work independently	When your group is not attending a teaching session, you should work independently	Individual / group work	CONTACT SESSION: scientific communication task
4th WEEK	Water & wastewater engineering (Anna)				
	Mon 26.9.	Tue 27.9.	Wed 28.9.	Thu 29.9.	Fri 30.9.
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Morning (9.00-)	CONTACT SESSION: water & wastewater engineering [Anna]	CONTEXT SESSION + TASK: ENTREPRENEURSHIP by Aalto Ventures Programme AVP	WEEKLY EXERCISE: spatial analysis & GIS	WEEKLY EXERCISE: Individual / group work	THEMATIC TASK on ENTREPRENEURSHIP: pitch clinic
Afternoon (-4pm)	CONTACT SESSION: water and wastewater engineering [Harri M.] + GIS intro [Teemu]	THEMATIC TASK on ENTREPRENEURSHIP: group work / interviews	ENTREPRENEURSHIP SESSION by AVP	ENTREPRENEURSHIP: introduction to pitching	ENTREPRENEURSHIP PRESENTATIONS + WRAP-UP with AVP

5th WEEK		Environmental management (Meeri)				
		Mon 3.10.	Tue 4.10.	Wed 5.10.	Thu 6.10.	Fri 7.10.
Morning (9.00-)		WEEKLY EXERCISE: Life Cycle Assessment	WEEKLY EXERCISE: Individual / group work	WEEKLY EXERCISE WRAP-UP	THEMATIC TASK: individual / group work	CONTACT SESSION: Dilemma board game [Meeri]
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Afternoon (9.00-)		WEEKLY EXERCISE: Individual / group work	WEEKLY EXERCISE: Individual / group work	CONTACT SESSION: environmental and sustainability management [Meeri]	THEMATIC TASK: individual / group work	THEMATIC TASK: wrap-up [Meeri]
6th WEEK		Water & environmental quality (Riku)				
		Mon 10.10.	Tue 11.10.	Wed 12.10. <i>Starting at 8.00</i>	Thu 13.10. <i>Starting at 8.00</i>	Fri 14.10.
Morning (9.00-)		CONTACT SESSION + TASK: water & environmental quality [Riku & co]	WEEKLY EXERCISE: introduction to laboratory work	WEEKLY EXERCISE: laboratory work & analysis <i>(Groups 3-5)</i>	WEEKLY EXERCISE: laboratory work & analysis <i>(Groups 1-2)</i>	WEEKLY EXERCISE time to prepare the presentations
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Afternoon (-4pm)		Time to read for the home exam: individual work	WEEKLY EXERCISE: laboratory work & analysis <i>(Group 6)</i>	WEEKLY EXERCISE: laboratory work & analysis <i>(Groups 3-5)</i>	WEEKLY EXERCISE: laboratory work & analysis <i>(Groups 1-2)</i>	TASK & WEEKLY EXERCISE WRAP-UP
7th WEEK		Synthesis (Marko)				
		Mon 17.10.	Tue 18.10.	Wed 19.10.	Thu 20.10.	Fri 21.10.
<i>DRAFT SHOWING THE OVERALL STRUCTURE: FINAL SCHEDULE IN MYCOURSES' WEEKLY SUB-PAGE</i>						
Morning (9.00-)			CONTEXT SESSION: Science + Governance & legislation [Marko]	SYNTHESIS DAY: presenting & synthesising the key themes and learning outcomes of WAT Course [Meeri & Marko]	REFLECTION & FEEDBACK DAY [Marko]	PHEEW, FREE TIME FROM WAT COURSE! <i>(possibility for mentor meetings + planning your studies and preparing your Personal Learning Portfolio)</i>
Afternoon (-4pm)	TIME FOR FINALISING YOUR ASSIGNMENTS		SYNTHESIS WORK: Instructions + individual synthesis		LUNCH TOGETHER! Individual work on your portfolio + mentor meetings	
WEEKLY THEMES						
1) Global natural resources MATTI & OLLI			4) Water & wastewater engineering ANNA			
2) Water resources management & hydrology HARRI			5) Environmental mgt and sustainability MEERI			
3) Environmental hydraulics JUHA			6) Water and environmental quality RIKU			
7) Synthesis MARKO						
WEEKLY METHODS						
1) Statistical analysis			4) Spatial analysis			
2) Simulation modelling			5) Life Cycle Assessment LCA			
3) Hydraulic flume: measurement & uncertainty			6) Laboratory analysis			
WAT CONTEXTS						
- Team roles & group work (Week 1)			- Governance & legislation			
- Entrepreneurship & business (Week 4)			+ science (Week 7)			
LEGEND FOR COLOURS						
WATER & ENVIRONMENT: session on context	WATER & ENVIRONMENT: session on weekly theme	WATER & ENVIRONMENT: individual / group work	COMPUTATIONAL METHODS: session on weekly method	COMPUTATIONAL METHODS: individual / group work		