

Schedule Safe Nutrient Recycling MX0161 (ver. Oct 3)

2023-10-03 - 2024-10-03 MX0161, Safe nutrient recycling, HT2023

	Time	Title	Activity	Place, Hus	Person	Comment
w44	Tue Oct 31					
	09:15 - 10:00	Course introduction	Course introduction	Group study room 10. VHC building 5 Group study room 11. VHC building 5	Annika Nordin	compulsory
	10:15 - 12:00	Biological dgradation - principles and microbiology	Lecture	Group study room 10. VHC building 5 Group study room 11. VHC building 5	Annika Nordin	
	12:00 - 13:00	No activity	Pre- and post-work	BÖL 1. Biocentre	Annika Nordin	
	13:00 - 17:00	Waste treatment lab. startup	Lab	BÖL 1. Biocentre	Annika Nordin Viktoria Wiklicky	compulsory
	17:00 - 17:30	No activity	Pre- and post-work	BÖL 1. Biocentre	Annika Nordin	
	Wed Nov 1					
	10:00 - 12:00	Waste treatment lab. TS, pH & plate count	Lab	BÖL 1. Biocentre	Annika Nordin	Compulsory
	Thu Nov 2					
	09:15 - 12:00	Solid waste managment in developing countries	Lecture	Biosfären, MVM	Christian Zurbrügg	
	13:00 - 14:00	Waste treatment lab. VS & plate count	Lab	BÖL 1. Biocentre	Annika Nordin	compulsory
	14:15 - 16:00	Faecal sludge management	Lecture	Lecture hall U. Ulls hus building E	Christian Zurbrügg	
w45	Mon Nov 6					
	08:00 - 09:00	Waste treatment lab. pH check	Lab	BÖL 1. Biocentre	Annika Nordin	compulsory
	09:15 - 12:00	Organic wastes: Quantities, composition and present treatment	Lecture	Lecture hall P. Ulls hus building B	Björn Vinnerås	
	13:15 - 16:00	Systems Analysis & systems thinking	Lecture	Lecture hall O1. The Teaching Building	Jennifer Mcconville	
	Tue Nov 7					
	08:00 - 09:00	No activity	Pre- and post-work	BÖL 1. Biocentre	Annika Nordin	
	09:00 - 12:00	Waste treatment lab. Sampling 1 w	Lab	BÖL 1. Biocentre	Annika Nordin	compulsory
	12:00 - 12:30	No activity	Pre- and post-work	BÖL 1. Biocentre	Annika Nordin	
	13:15 - 16:00	Composting: design, chemical and physical parameters	Lecture	Lecture hall U. Ulls hus building E	Björn Vinnerås	
	Wed Nov 8					
	08:30 - 09:00	No activity	Pre- and post-work	BÖL 1. Biocentre	Annika Nordin	
	09:00 - 11:00	Waste treatment lab. TS & plate count	Lab	BÖL 1. Biocentre	Annika Nordin	compulsory
	11:00 - 16:00	Ultuna Näringslivsdag	Vernissage			
	Thu Nov 9					
	14:00 - 15:00	Waste treatment lab. VA & plates	Lab	BÖL 1. Biocentre	Annika Nordin	compulsory

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w45	Thu Nov 9					
	15:15 - 17:00	QMRA- what is it and intro to project	Lecture	Lecture hall P. Ulls hus building B	Annika Nordin	compulsory
	Fri Nov 10					
	08:15 - 11:00	Converting waste to animal feed using invertebrates	Lecture	Lecture hall P. Ulls hus building B	Cecilia Lalander	
	11:15 - 12:00	Study visit Fly colony	Study visit		Viktoria Wiklicky	
	13:15 - 16:00	Mass balace in biological waste treatment	Lecture Exercise	Lecture hall R. Ulls hus building B	Cecilia Lalander	
w46	Mon Nov 13					
	09:15 - 10:00	Massbalance cont.	Lecture Exercise	Lecture hall P. Ulls hus building B	Cecilia Lalander	
	10:15 - 12:00	Biogas process: technology and microbiology	Lecture	Lecture hall P. Ulls hus building B	Anna Schnürer	
	13:15 - 15:00	Biogas technology 1	Lecture	Lecture hall P. Ulls hus building B	Åke Nordberg	
	14:00 - 15:00	No activity	Pre- and post-work	BÖL 1. Biocentre	Annika Nordin	
	15:00 - 17:00	Waste treatment lab. Sampling w2	Lab	BÖL 1. Biocentre	Annika Nordin	compulsory
	17:00 - 17:30	No activity	Pre- and post-work	BÖL 1. Biocentre	Annika Nordin	
	Tue Nov 14					
	09:15 - 16:00	ORWARE computer exercise	Exercise	Computer room 1 Ulls hus. Ulls hus building A Computer room 2 Ulls hus. Ulls hus building A	Annika Nordin Cecilia Lalander	compulsory
	Wed Nov 15					
	08:00 - 09:00	Waste treatment lab. TS & plates	Lab	BÖL 1. Biocentre	Annika Nordin	compulsory
	09:15 - 12:00	Biogas technology 2 + calc.	Lecture Exercise	Lecture hall Q. Ulls hus building B	Åke Nordberg	
	Thu Nov 16					
	08:00 - 17:00	Prepare HazID & treatment presentation	Self studies			
	09:00 - 11:00	Waste treatment lab. VS & bact.	Lab	BÖL 1. Biocentre	Annika Nordin	compulsory
	Fri Nov 17					
	09:15 - 12:00	Seminare ORWARE follow-up	Exercise	Lecture hall O2. The Teaching Building	Annika Nordin Cecilia Lalander	compulsory
	13:00 - 17:00	Prepare HazID & treatment presentation	Self studies			
w47	Mon Nov 20					
	09:00 - 12:00	Pathogens in waste and waste water + student Haz ID	Lecture Group work	Lecture hall H (distance education). The Teaching Building	Annika Nordin	compulsory
	12:00 - 13:00	No activity	Pre- and post-work	BÖL 1. Biocentre	Annika Nordin	
	13:00 - 17:00	Waste treatment lab. Finishing lab w3	Lab	BÖL 1. Biocentre	Annika Nordin	compulsory

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w47	Mon Nov 20					
	17:00 - 17:30	No activity	Pre- and post-work	BÖL 1. Biocentre	Annika Nordin	
	Tue Nov 21					
	09:00 - 12:00	Sanitation methods	Lecture	Lecture hall C213. Biocentre	Annika Nordin	
	13:00 - 14:00	Waste treatment lab. TS & bact.	Lab	BÖL 1. Biocentre		compulsory
	Wed Nov 22					
	09:00 - 12:00	Ponds: principles and dimensioning	Lecture	Lecture hall P. Ulls hus building B	Abdulhamid Aliahmad	
	Thu Nov 23					
	11:00 - 12:00	Waste treatment lab. VS & bact.	Lab	BÖL 1. Biocentre		compulsory
	13:00 - 17:00	Calculating on sanitation	Lecture Exercise	Lecture hall O2. The Teaching Building	Annika Nordin	
	Fri Nov 24					
	08:00 - 17:00	Work on results Lab report	Self studies			
w48	Mon Nov 27					
	08:00 - 17:00	Work on results Lab report	Self studies			
	Tue Nov 28					
	08:00 - 17:00	Work on results Lab report	Self studies			
	Wed Nov 29					
	08:15 - 09:00	Waste water: composition and flows	Lecture	Lecture hall P. Ulls hus building B	Chitransh Dua	
	09:15 - 10:00	waste water collection, primary treatment etc.	Lecture	Lecture hall P. Ulls hus building B	Chitransh Dua	
	10:15 - 12:00	Source separating waste water systems	Lecture	Lecture hall P. Ulls hus building B	Jennifer Mcconville	
	Thu Nov 30					
	10:15 - 12:00	Odour and odour management	Lecture	Computer room 1 MVM. MVM	Cecilia Lalander	
	13:15 - 15:00	Infiltration, attached growth processes etc.	Lecture	Lecture hall P. Ulls hus building B	Sahar Dahlameh	
	15:15 - 16:00	Biochar and other filter media	Lecture	Lecture hall P. Ulls hus building B	Sahar Dahlameh	
	Fri Dec 1					
	08:00 - 17:00	Work on results Lab report	Self studies			
w49	Mon Dec 4					
	09:00 - 12:00	Students presentation of waste lab. results	Presentation	Lecture hall Q. Ulls hus building B		Compulsory
	Tue Dec 5					
	08:00 - 17:00		Self studies			
	Wed Dec 6					
	08:00 - 17:00		Self studies			

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w49	Thu Dec 7					
	08:00 - 16:00	Studie visit to VAFAB Västerås	Study visit			compulsory
	Fri Dec 8					
	10:15 - 12:00	Organic waste as fertilisers	Lecture	on video link	Sofia Delin	
	13:15 - 14:00	Biostimulants in waste and wastewater	Lecture	Lecture hall Q. Ulls hus building B	Ivã Guidini Lopes	
w50	Mon Dec 11					
	08:00 - 17:00		Self studies			
	Tue Dec 12					
	10:00 - 12:00	Jakob Ottoson: QMRA real life applications	Lecture	Lecture hall H (distance education). The Teaching Building		
	13:00 - 15:00	QMRA support time	Questions	Lecture hall O2. The Teaching Building	Annika Nordin	
	Thu Dec 14					
	13:00 - 15:00	Feedback labreports Question hour calcs.	Lecture	Lecture hall Q. Ulls hus building B		
w51	Tue Dec 19					
	08:00 - 12:00		Examination	Exam hall 1. The Teaching Building	Annika Nordin	
w1	Thu Jan 4					
	13:00 - 15:00	Question hour for the exam	Questions			
w2	Mon Jan 8					
	08:00 - 12:00		Examination	Exam hall 1. The Teaching Building	Annika Nordin	
	Thu Jan 11					
	13:00 - 15:00	Going through the exams	Supervision	Lecture hall Y. Ulls hus building D		
	Fri Jan 12					
	10:00 - 15:00	QMRA presentations and oral course evaluation	Presentation	Lecture hall P. Ulls hus building B	Annika Nordin	compulsory