

Safe Nutrient recycling, 15 credits (MX0131) Course leader Annika Nordin, annika.c.nordin@slu.se; 018-671831

Bold letters indicate compulsory activities. Lectures and activities starts at quarter past.

Week	Date	Day	Time	Activity	Room
44	2021-11-02	Tuesday	13-14	course intro	Sal O1
			14-16	Self studies: Read about composting	
	2021-11-03	Wednesday	10-12	Lecture: Biogas process: technology and microbiology (AS)	Sal R
			13-17	Laboration: start up 4h	BÖL 1
	2021-11-04	Thursday	10-12	Lecture:Biogas Technology 1(ÅN) 2h	Prima
13-16			Lecture:Biogas technology 2 (ÅN) 3h calc	Sal Z	
16-17			Laboration: TS read, pH	Böl 1	
2021-11-05	Friday	8-10	Laboration: VS, microbes and pH	Böl 1	
45	2021-11-08	Monday	9-12	Lecture: Composting: Degradability and maturity (EE) 3h	Sal T
			13-16	Lecture: Systems Analysis (JMC) 3h	Sal T
	2021-11-09	Tuesday	10-12	Lecture:Composting; Engineering Energy & Areation requirements (EE) 2h	sal T
			13-16	Lecture:Organic wastes: Quantities, composition and present treatment (BV) 3h	
	2021-11-10	Wednesday	9-12	Computer excersise:ORWARE 1 (EE) 3h	Datorsal 1 MVM
			13-16	Laboration:Sampling monitoring 1w	BÖL 1
	2021-11-11	Thursday	9-12	ORWARE excercise, part 2 (EE) 3h	Datorsal 1 MVM
13-16			Lecture:Solid waste management in developing countries and the SDGs (CZ) 3h	Sal O2	
16-17			Laboration:TS	BÖL 1	
2021-11-12	Friday	10-12	Lecture:QMRA what is it + project intro 2h	Sal P	
		13-15	Laboration:VS MO	BÖL 1	
46	2021-11-15	Monday	10-12	Lecture:Faecal sludge management (CZ) 2h	Sal P
			13	QMRA: Choose case	
			17	Computer excersise: Submitt ORWARE report	

	2021-11-16	Tuesday	9-12 13-15	Lecture:Converting waste to animal feed using invertebrates (CL) 3h Lecture:BSF calculations (CL) 2h	Sal T Sal T
	2021-11-17	Wednesday	9-12	Laboration: Sampling monitoring 2 w	BÖL 1
	2021-11-18	Thursday	9-10 9-10	TS Self studies: Prep Haz ID	BÖL 1
	2021-11-19	Friday	9-11 11-12 13-15	Lecture:Pathogens in waste and waste water (AN) QMRA: Students presentation Hazard ID (AN) Laboration:VS, microbes	Sal A132 Sal A132 BÖL 1
47	2021-11-22	Monday	9-12	Lecture:Sanitisation methods (AN) 3h	sal O1
	2021-11-23	Tuesday	9-12	Lecture:Calculating sanitation + exercise w/solution (AN) 3h	sal U
	2021-11-24	Wednesday	8-12	Laboration: Finishing p compost 3w	BÖL 1
	2021-11-25	Thursday	9-10 10-12 13-16 16-17	Lecture:Wastewater: flows and comp (JMC) 1h Lecture:Source separating wastewater systems (JS) 2h Lecture:On site treatment - infiltration, attached growth processes etc (SD) 3h Laboration:TS	zoom zoom BÖL 1
	2021-11-26	Friday	10-12	Laboration:VS MO	BÖL 1
48	2021-11-29	Monday	10-12	Lecture:Ponds: principles and dimensioning (SD) 2h	zoom
	2021-11-30	Tuesday	13-15	open office math lab(AN) 2h	sal T
	2021-12-02	Thursday	10 10-12 13-17	Laboration: submit results part Lecture:Odour (CL) 2h Laboration:compare lab results, prepare presentation	
	2021-12-03	Friday	8-17	Laboration:compare lab results, prepare presentation	
49	2021-12-06	Monday	13-16	Laboration:Reverse classroom laboration results	Sal T

	2021-12-07	Tuesday	9-12	Recycled products - urine, faeces, compost and sludge as fertiliser (HJ) 3h	Zoom
	2021-12-09	Thursday	8-17	Studie visit VAFAB	
	2021-12-10	Friday	17	Laboration: Submitt full reports	
50	2021-12-13	Monday	13-16	Playing sanigame and have Lucia fika	sal Z
	2021-12-14	Tuesday	8-9	QMRA: workshop transmission & treatment effect	zoom
	2021-12-15	Wednesday	10-12	Laboration: Oral examination	sal T
	2021-12-16	Thursday	8-9	QMRA: workshop montecarlo	
	2021-12-17	Friday	10-12	Lecture:QMRA real life applications (JO) 2h	
51	2021-12-20	Monday	8-17	self studies	
	2021-12-21	Tuesday	8-17	self studies	
	2021-12-22	Wednesday	8-17	self studies	
52	2021-12-27	Monday	8-17	self studies	
	2021-12-28	Tuesday	8-17	self studies	
	2021-12-29	Wednesday	8-17	self studies	
1	2022-01-03	Monday	8-17	self studies	
	2022-01-04	Tuesday	8-17	QMRA: hand in report	
	2022-01-05	Wednesday	8-17	self studies	
	2022-01-06	Thursday	8-17	self studies	
	2022-01-07	Friday	8-9	self studies	
2	2022-01-10	Monday	8-14	Exam 6 h	Särimner
	2022-01-11	Tuesday	8-9	QMRA: prepare presentations	
	2022-01-12	Wednesday	8-9	QMRA: prepare presentations	
	2022-01-13	Thursday	9-15	QMRA: project presentations 6 h	Sal Y / sal Q
			15-17	QMRA: reports feedback	
	2022-01-14	Friday	8-9	Examination and course evaluation	Sal R

Teachers

Annika Nordin, Associate professor, ET
Victoria Wicklicky, research engineer, ET
Anna Schnürer, Professor, Department of Microbiology
SLU
Åke Norberg, Associate professor ET
Jennifer McConville, Associate professor, ET
Evgheni Ermolaev, Researcher ET
Christian Zurbrugg, Professor ET, Eawag
Jenna Senecal, post doc, SLU
Sahar Dalahmeh, Researcher UU
Björn Vinnerås, Professor ET
Håkan Jönsson, Professor emeritus, ET
Jakob Ottoson, Swedish Food Authority
Cecilia Lalander, Associate professor ET

Rooms

C-241B2019, MVM, Uppsala, 24
C-190297C, Ultunabiblioteket, Uppsala, 24
C-250A132, Ulls hus A-blocket, Uppsala, 30
C-185112-1, Undervisningshuset, Uppsala, 40
C-185112-2, Undervisningshuset, Uppsala, 30
C-250B203, Ulls hus B-blocket, Uppsala, 20
Id, Hus, Ort, Platser
C-250B214, Ulls hus B-blocket, Uppsala, 30
C-250B213, Ulls hus B-blocket, Uppsala, 30
C-250E208, Ulls hus E-blocket, Uppsala, 40
C-250E207, Ulls hus E-blocket, Uppsala, 30
C-250D225, Ulls hus D-blocket, Uppsala, 30
C-250D222, Ulls hus D-blocket, Uppsala, 40

Datorsal 1 MVM
Prima
Sal A132
Sal O1
Sal O2
Sal P
Namn
Sal Q
Sal R
Sal T
Sal U
Sal Y
Sal Z