

Draft Schedule - Introduction to Environmental Chemistry, IEC, KZ4007, 15 hp, ht 2020

	Day	Morning lectures 9-12	Lecturer/ Lab assistants	Room	Afternoon lectures 13–16 ca. Labs till 18 ca.	Lecturer/ Lab assistants	Room
Week 1	31/8	10am. Roll call and course information <u>Org. L1</u> , Introduction 1 -- Highlights	HM/JW	Zoom	Org. L2, Introduction 2 -- Concepts and definitions, and nomenclature	JW	Zoom
	1/9	Org. L3, Introduction 3 -- The Stockholm Convention	JW	Zoom	Org. L4, Organic pollutants 1	JW	Zoom
	2/9	Org. L5, Organic pollutants 2	JW	Zoom	Lab and safety information	All lab assistants	Zoom
	3/9	Org. L6, Chemical transformations in environment	HM	Zoom	Org. L7, Toxicological insights/ADME	HM	Zoom
	4/9	Org. L8, Metabolism	HM	Zoom	Individual studies		
Week 2	7/9	Org. L9, Physical and chemical properties	DL	Zoom	Individual studies		
	8/9	Org. L10, Analysis of organic environmental pollutants 1	LA	Zoom	Examination of safety	KS/GM	Zoom
	9/9	Org. L11, Analysis of organic environmental pollutants 2	LA	Zoom	Org. L12, Bioaccumulation/ Case study	JM	Zoom
	10/9	9.30am. Group 1 , Lab 1: <i>Chemical properties - Separation</i>	DL/GM	C348/ C350	Group 1 , Lab 2a: <i>Chemical Analysis - Fish muscle</i>	KS/JEn	C348/ C350
	11/9	9.30am. Group 2 , Lab 1: <i>Chemical properties - Separation</i>	DL/GM	C348/ C350	Group 2 , Lab 2a: <i>Chemical Analysis - Fish muscle</i>	KS/JEn	C348/ C350
Week 3	14/9	9.30am. Group 3 , Lab 1: <i>Chemical properties – Separation</i>	DL/GM	C348/ C350	Group 3 , Lab 2a: <i>Chemical Analysis - Fish muscle</i>	KS/JEn	C348/ C350
	15/9	Lab 3: <i>Chemical properties - Photolysis</i>	GM/KS	Zoom	Individual studies		
	16/9	Lab 2b: <i>Chemical Analysis - Quantification</i>	KS/JEn	Zoom	Individual studies		
	17/9	10am; Org. L13, Risk Assessment	MT	Zoom	Individual studies		
	18/9	Individual studies			Individual studies		
Week 4	21/9	Atm. -- Intro to lab exercise	EG, PT, RK	Zoom	<u>Atm. L1</u> , Atmospheric composition and evolution	RK	Zoom
	22/9	Atm. L2, Gas phase chemistry	RK	Zoom	Individual studies		
	23/9	Atm. L3, Aerosol chemistry and physics	PT	Zoom	Atm. Lab exercise	EG	
	24/9	Atm. L4, Clouds & precipitation	RK	Zoom	Atm. Lab exercise	EG	
	25/9	Atm. L5, Air quality and air pollution	PT	Zoom	Individual studies		
Week 5	28/9	Atm. L6, Stratospheric ozone	PT	Zoom	Individual studies		
	29/9	Atm. L7, Climate change	RK	Zoom	Individual studies		
	30/9	Lab report/individual studies			Individual studies		
	1/10	Lab report/individual studies			Individual studies		
	2/10	Lab report/individual studies			Individual studies		

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Week 6	5/10	Individual studies			Individual studies		
	6/10	Individual studies			Individual studies		
	7/10	<u>Inorg. L1</u> , Intro + carbon dioxide	LE	Zoom	Inorg. Calculation exercise 1	LE	Zoom
	8/10	Inorg. L2, Redox and solubility	LE	Zoom	Inorg. Calculation exercise 2	LE	Zoom
	9/10	Individual studies			Individual studies		
Week 7	12/10	Inorg. L3, Pourbaix	LE	Zoom	Inorg. Calculation exercise 3	LE	Zoom
	13/10	Inorg. L4, Waste water	LE	Zoom	Inorg. Calculation exercise 4	LE	Zoom
	14/10	Excursion 1, water sampling	LE	Field	Excursion 1, water sampling	LE	Field
	15/10	10:00 am, Inorg. Lab 1	LE, JEn, JEr	KÖL	Inorg. Lab 1	LE, JEn, JEr	KÖL
	16/10	Individual studies			Individual studies		
Week 8	19/10	Inorg. L5, heavy metals	LE	Zoom	Individual studies		
	20/10	Excursion 2, waste water	LE	Field	Excursion 2, waste water	LE	Field
	21/10	10:00am, Inorg. Lab 2	JEn, JEr	KÖL	Inorg. Lab 2	JEn, JEr	KÖL
	22/10	Preparation for seminars			Seminar (lab follow up)	JEn, JEr	zoom
	23/10	Individual studies			Individual studies		
Week 9	26/10	Questions slot	several	Zoom	Individual studies		
	27/10	Individual studies			Individual studies		
	28/10	Individual studies			Individual studies		
	29/10	Individual studies			Individual studies		
	30/10	Exam all parts, 9-14					

Lecturers

Lillemor Asplund (LA)
Lars Eriksson (LE)
Radovan Krejci (RK)
Dennis Lindqvist (DL)
Jonathan Martin (JM)
Hitesh Motwani (HM)
Peter Tunved (PT)
Margareta Törnqvist (MT)
Jana Weiss (JW)

Course literature

Distributed literature/ lecture hand-outs/
compendium/ scientific articles

Laboratory assistants:

Josefin Engelhardt (JEn)
Johan Eriksson (JEr)
Emelie Graham (EG)
Dennis Lindqvist (DL)
Giulia Martella (GM)
Kalliroi Sdougkou (KS)

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