

Schedule - Introduction to Environmental Chemistry, IEC, KZ4007, 15 hp, ht 2018

	Day	Morning lectures 9-12	Lecturer/ Lab assistants	Room	Afternoon lectures 13-16 ca. Lab exercises 13-17 ca.	Lecturer/ Lab assistants	Room
Week 1	3/9	Roll call and course information <u>Org. L1</u> , Introduction 1 -- <i>Highlights</i>	HM	B233	Lab tour (at 12.00) and Individual reading	JG	
	4/9	Org. L2, Introduction 2 -- <i>Concepts and definitions, and nomenclature</i>	JW	B233	Org. L3, Introduction 3 -- <i>The Stockholm Convention</i>	JW	B233
	5/9	Org. L4, Organic pollutants 1	JW	B233	Individual studies		
	6/9	Org. L5, Organic pollutants 2	JW	B233	Individual studies		
	7/9	Org. L6, Chemical transformations in environment	HM	B233	Chemical reactivity/ Hand-out of group task	HM	B233
Week 2	10/9	Org. L7, Physical and chemical properties	DL	B233	Exercises/ Safety review	DL/ JG/EV	B233
	11/9	Org. L8, Toxicological insights/ ADME	HM	B233	Group studies		
	12/9	Org. L9, Metabolism 1	HM	B233	Exercises/ Group studies	HM	B233
	13/9	Org. L10, Metabolism 2	HM	B233	Exercises/ Group studies	HM	B233
	14/9	Org. L11, Chemical reactivity/ Group presentations	HM	B233	Individual studies		
Week 3	17/9	Org. L12, Analysis of organic environmental pollutants 1	LA	B233	Examination of safety	JG/EV	B233
	18/9	Org. L13, Analysis of organic environmental pollutants 2	LA	B233	Individual studies		
	19/9	Org. Lab I, <i>on fish muscle</i> -- <i>Analysis</i>	JG/MC	C348/ C350	Org. Lab I, <i>on fish muscle</i> -- <i>Analysis</i>	JG/MC	C348/ C350
	20/9	Individual studies			Individual studies		
	21/9	Org. Lab I, <i>on fish muscle</i> -- <i>Quantification</i>	JG/MC	K343	Org. Lab I, <i>on fish muscle</i> -- <i>Quantification</i>	JG/MC	K343
Week 4	24/9	Org. L14 (from 10.00), Bioaccumulation/ Case study	JM	B233	Individual studies		
	25/9	Org. L15, Risk Assessment	MT/JA	B233	Org. L16, EDA	JW	B233
	26/9	Org. Lab 2a, <i>Chemical properties -- Separation</i>	DL/EV	C348 C350	Org. Lab 2a, <i>Chemical properties -- Separation</i>	DL/EV	C348/ C350
	27/9	Org. Lab 2b, <i>Chemical properties -- Photolysis</i>	EV/JA	C348 C350	Org. Lab 2b, <i>Chemical properties -- Photolysis</i>	EV/JA	C348/ C350
	28/9	Individual studies			Individual studies		
Week 5	1/10	Individual studies			<u>Inorg. L1</u> , Intro + pH-pC	LE	B233
	2/10	Inorg. L2, carbon dioxide	LE	B233	Inorg. Exercise 1	LE	B233
	3/10	Inorg. L3, pE-pC, pourbaix	LE	B233	Inorg. Exercise 2	LE	B233
	4/10	Excursion-1, water sampling	LE/JE	Field	Excursion-1, water sampling	LE/JE	Field
	5/10	Inorg. Lab 1a	LE	C348/ C350	Inorg. Lab 1b	LE	C348/ C350

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Week 6	8/10	Inorg. L4, Water treatment	LE	B233	Inorg. Exercise 3	LE	B233
	9/10	Inorg. L5, Toxic metals	LE	B233	Inorg. Exercise 4	LE	B233
	10/10	Inorg. L6,	LE	B233	Inorg. Exercise 5	LE	B233
	11/10	Excursion-2, water sampling	LE/JE	Field	Excursion-2, water sampling	LE/JE	Field
	12/10	Inorg. Lab 2a	LE	C348/ C350	Inorg. Lab 2b	LE	C348/ C350
Week 7	15/10	Individual studies/ lab /vlog			Individual studies/ lab/ vlog		
	16/10	Org and Inorg - Seminar day/ Questions moment	<i>several</i>	B233			
	17/10	Individual studies			Individual studies		
	18/10	Individual studies			Individual studies		
	19/10	Org and Inorg. Written exam, 9-14		B233			
Week 8	22/10	<u>Atm. L1</u> , Atmospheric structure and composition, gas chemistry	RK/PT	B233	Atm. L2, Gas chemistry	RK/PT	B233
	23/10	Atm. L3, Chemistry and physics of aerosols	RK/PT	B233	Individual studies		
	24/10	Atm. L4, Clouds and precipitation	RK/PT	B233	Atm. Computer exercise	EG	K343
	25/10	Atm. L5, Local and regional air pollution	RK/PT		Atm. L6, Global air pollution. stratospheric ozone chemistry	RK/PT	B233
	26/10	Atm. L7, Greenhouse gases and climate change	RK/PT	B233	Individual studies		
Week 9	29/10	Atm. Computer exercise	EG	K343	Atm. Computer exercise	EG	K343
	30/10	Atm. Computer exercise	EG	K343	Atm. Computer exercise	EG	K343
	31/10	Individual studies/ Lab reports			Individual studies/ Lab reports		
	1/11	Individual studies			Individual studies		
	2/11	Atm. Written exam, 9-12		B233			

Lecturers

Jenny Aasa (JA)
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:

Jenny Aasa (JA)
Mafalda Castro (MC)
Johan Eriksson (JE)
Emelie Graham (EG)
Johan Gustafsson (JG)
Dennis Lindqvist (DL)
Efsthios Vryonidis (EV)

Course coordinator

Hitesh Motwani
Phone: 0727453210
E-mail: hitesh.motwani@aces.su.se
Room: C320