## Materials Chemistry for Environmental Applications 7.5 Higher Education Credits

Schedule Fall 2023 (October)

Sche		23 (Octo)	<del>- ′</del>	Toocher	Contents	
Cour	Date	Room	Туре	Teacher	Contents	
se L1	28/9	C516	Locturo	AM/ZH	Introduction	
L1	09:15-12:00	C310	Lecture	AIVI/ZII	Pollution remediation and related	
	09.15-12.00					
					circularity concepts (process	
					efficiency, recyclability, recovery	
	0.0 /0	0710			of valuable chemicals, end-of-use	
L2	29/9	C516	Lecture	AM	Introduction to adsorption-driven	
	09:15-12:00				processes, associated materials	
					and characterisation, Adsorption	
					processes for water purification,	
					air treatment and gas separation	
L3	02/10	C 516	Lecture	ZH	Porous materials used in water	
	09:15- 12:00				treatment processes	
Ex1	03/10@09:00	C 516	Class work	AM/HK/MR/ZH	Introduction to seminar topics	
Ex2	03/10@10:30	C 516	Class work	AM/HK/MR/ZH	Introduction to project work	
5.2	02/400 42.00	0.546	Clara and	CIA	Later de discolation de l'Observations	
Ех3	03/10@ 13:00	C 516	Class work	SW	Introduction to LCA project	
L4	04/10	C 516	Lecture	ZH	Nanoporous materials (adsorbents)	
	09:15-12:00				for air treatment and gas	
					separation	
L5	05/10	C 516	Lecture	AM	Introduction to membrane	
	09:15-12:00				processes, associated materials	
					and characterisation, Membrane	
					materials for water and air	
					purification	
L6	06/10	C 516	Lecture	AM	Biobased materials and hybrids for	
	09:15-12				water treatment	
L7	09/10	C 516	Lecture	AM	Photocatalytic processes and	
	09:15- 12:00				materials for water purification	
L8	09/10	C 516	Lecture	ZH (online)	CO <sub>2</sub> capture and storage (CCS), CO <sub>2</sub>	
	13:15- 16:00	0020			as a base chemical, CO2 capture	
	10.13 10.00				and utilization (CCU)	
P1	12/10	C 516	Seminar	AM	(Group 1, 2, 3)	
' -	09:15 onwards			/	(5.542 1, 2, 5)	
	11/10 Industry vi	sit (Camfill)	1	<u> </u>	<u> </u>	
	3/10- 20/10 Project work					
Ex4	18/10	C516	Class Work	AM/SW	LCA Implementation (moderated	
EX4	09:15-12:00	C310	CIUSS VVUIK	AIVIJ SVV	discussion)	
D2		CE1C	Draicat	ANA/711/111/	·	
P2	20/10	C516	Project	AM/ ZH/ HK/	(Group 1, 2,3)	
	09:15 onwards	0546	Presentation	MX		
	27/10	C516	Written Examination HK/MR			
	03/11		Final report s	Final report submission		

AM- Aji Mathew, ZH- Zhehao Huang, SW- Siri Willskytt (IVL), HK\_ Houssine Khalili, MR Maria-Ximena Ruiz - Caldas