

BEE / 'CLEAN PRODUCTION' CURRICULUM 2012-2014 (total min. 120 ECTS, 2 years)

MODULES:

CP1 = BASIC MODULE
 CP2 = ADVANCED MODULE
 CP3 = SUPPLEMENTARY MODULE
 CP4 = DIPLOMA THESIS

PERIODS:

P1 = 3.9.-5.10.2012 (Autumn)
 P2 = 8.10.-9.11.2012 (Autumn)
 P3 = 12.11.-14.12.2012 (Autumn)
 P4 = 7.1.-8.2.2013 (Spring)
 P5 = 11.2.-22.3.2013 (Spring)
 P6 = 25.3.-10.5.2013 (Spring)
 P7 = 13.5.-30.8.2013 (Summer)

Study Option	Module	Obligatory Facultative	Code	Course name	Credits	Year	Periods organized P1-P6, P7							
							1	2	3	4	5	6	7	
CP	CP1	O	488400A	Orientation to the BEE Studies	1,0	1st	1,2,3,4	1	2	3	4			
CP	CP1	O	488401A	Introduction to the Environmental and Socio-economical Issues of the Barents Region	2,0	1st	1,2	1	2					
CP	CP1	O	488203S	Industrial Ecology	5,0	1st	2		2					
CP	CP2	F	477309S	Process and Environmental Catalysis	5,0	1st	2		2					
CP	CP1	O	477307S	Research Methodology	5,0	1st	2,3,4,5,6		2	3	4	5	6	
CP	CP1	O	488402A	Sustainable Development	3,0	1st	3			3				
CP	CP2	F	477041S	Experimental Design	5,0	1st	4				4			
CP	CP1	O	488201A	Ympäristöekologia (Environmental Ecology)	5,0	1st	4,5				4	5		
CP	CP1	O	488012A	Ympäristölainsäädäntö (Environmental Legislation) WILL BE SUPPLEMENTED!	5,0	1st	4,5				4	5		
CP	CP2	F	477203A	Process Design	5,0	1st	4,5				4	5		
CP	CP3	F	721236A	Principles of Environmental Economics	5,0	1st or 2nd	4,5				4	5		
CP	CP2	F	488104A	Industrial and Municipal Waste Management	5,0	1st	5,6					5	6	
CP	CP3	F	477206S	Advanced Process Design	6,0	1st	5,6					5	6	
CP	CP2	F	477311S	Advanced Separation Processes (every other year)	5,0	1st	6						6	
CP	CP2	O	488405S	Environmental Issues in the Barents region	5,0	1st	6						6	
CP	CP2	F	488205S	Environmental Load of Process Industry	4,0	1st	6						6	
CP	CP2	O	488002S	Advanced Practical Training	3,0	1st to 2nd	7,3			3				7
CP	CP3	F	488202S	Production and Use of Energy	3,0	2nd	1	1						
CP	CP1	O	488404A	Global Change	5,0	2nd	1,2	1	2					
CP	CP3	F	477305S	Virtausdynamikka (Flow Dynamics)	5,0	2nd	2		2					
CP	CP3	F	721704A	Business Logistics	5,0	2nd	2,3		2	3				
CP	CP3	F	477209S	Chemical Process Simulation	5,0	2nd	2,3		2	3				
CP	CP3	F	488204S	Air Pollution Control Engineering	5,0	2nd	3			3				
CP	CP3	F	477306S	Non-ideal Reactors	5,0	2nd	3			3				
CP	CP3	F	477503S	Simulation	3,0	2nd	3			3				
CP	CP3	F	555321S	Risk Management	3,0	2nd	1,2,3	1	2	3				
CP	CP3	F	--	Courses by or at the BEE partner universities	10,0	2nd	1,2,3	1	2	3				
CP	CP4	O	--	Master's thesis (30 cr) and Maturity test (0 cr)	30,0	2nd	4,5,6				4	5	6	