

<p align="center">Module for Clean Production (30 ECTS)</p> <ul style="list-style-type: none"> – Introduction to the Environmental and Socio-economical Issues of the Barents Region (2) – Sustainable Development (3) – Introduction to the Environmental Legislative Systems of the Barents Region (5) – Research Methodology (5) – Introduction to Environmental Science (5) – Industrial Ecology (5) – Global Change (5) 					<p align="center">Advanced Special Module for Clean Production (30 ECTS)</p> <ul style="list-style-type: none"> – Environmental Issues in the Barents Region (5) – Advanced practical training * (3) – Experimental Design (5) – Process Design (5) – Advanced Separation Processes (4) – Industrial and Domestic Waste Management (5) – Environmental and Process Catalysis (5) – Environmental Load of Process Industry (4) 				
<p align="center">Additional Modules (30 ECTS)</p>					<p align="center">Master's Thesis (30 ECTS)</p>				
<p>Module 1 'Energy and environment'</p> <ul style="list-style-type: none"> – Air Pollution Control Eng. (5) – Prod. and Use of Energy (3) 	<p>Module 2 'Control of Phenomena'</p> <ul style="list-style-type: none"> – Non-ideal Reactors (5) – Flow Dynamics (5) 	<p>Module 3 'Process Design'</p> <ul style="list-style-type: none"> – Simulation (3) – Advanced process design (6) 	<p>Module 4 'Economics and management'***</p> <ul style="list-style-type: none"> – Resource Economics (5) – International Procurement & Logistics (5) – Risk management (3) 	<p>Module 5 'Elective'</p> <ul style="list-style-type: none"> – Courses from BEE partner universities 	<ul style="list-style-type: none"> - A research work in a subject related to the studies - Subject and supervisor approved by the Department council - Written in English - Approved by the Department council - Maturity test 				

Water and Environment orientation

<p align="center">Module for Water and Environment (30 ECTS)</p> <ul style="list-style-type: none"> – Introduction to the Environmental and Socio-economical Issues of the Barents Region (2) – Sustainable Development (3) – Introduction to the Environmental Legislative Systems of the Barents Region (5) – Research Methodology (5) – Field Measurements in Environmental Engineering (2.5) – Water and Wastewater Treatment (7.5) – Chemical Proc. in Water and Wastewater Engineering (5) 					<p align="center">Advanced Special Module for Water and Environment (30 ECTS)</p> <ul style="list-style-type: none"> – Environmental Issues in the Barents Region (5) – Advanced practical training * (3) – Experimental Design (5) – Process Design (5) – Advanced Separation Processes (4) – Industrial and Domestic Waste Management (5) – Hydrological Processes (5) 					
<p align="center">Additional Modules (30 ECTS)</p>					<p align="center">Master's Thesis (30 ECTS)</p>					
<p>Module 4 'Economics and management'***</p> <ul style="list-style-type: none"> – Resource Economics (5) – International Procurement & Logistics (5) – Risk management (3) 	<p>Module 5 'Elective'</p> <ul style="list-style-type: none"> – Courses from BEE partner universities 	<p>Module 6a *** 'Water 1'</p> <ul style="list-style-type: none"> – Groundwater Eng. (5) – Water Resources Man. (7.5) 	<p>Module 6b *** 'Water 2'</p> <ul style="list-style-type: none"> – Env. Impact Assessment (5) – Hydraulics for Environmental Eng. (5) 	<p>Module 7 'Geoenv. engineering'</p> <ul style="list-style-type: none"> – Basics in Geo-environmental Eng. (5) – Advanced Geo-environmental Eng. (5) 	<p>Module 8 'Environmental systems'</p> <ul style="list-style-type: none"> – Industrial Ecology (5) – Global Change (5) 	<ul style="list-style-type: none"> - A research work in a subject related to studies - Subject and supervisor approved by the Department council - Written in English - Approved by the Department council - Maturity test 				

Bolded courses are compulsory for all participants

* 9 weeks training period, compulsory in Finland and Russia

** Elective courses from the Faculty of Economics or Department of Industrial Management

*** Modules 6a and 6b are available in alternating years