Metropolia UAS Degree Program	me in Energy and Environmental Technology 1.12.2023		σ												
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1st year of study, Orientation and	Introduction to Studies and Profession	30													
introduction to studies and own field	Orientation to Field and Studies	5		Х			х			х	х	х		х	х
of subject	Engineering English and Communication Skills	5		Х						х				х	
	Introductory Project and Professional Communication	5	х	х	х		х			х	х	х	х	х	х
	Fundamentals of Chemistry	5	х							х					
	Fundamentals of Engineering Mathematics	5	х							х					
	Fundamentals of Physics	5	Х							Х					
	Introduction to Energy and Environmental Technology	30													
	Industrial Business	5		Х	х		х			Х	х	х	х	х	х
	Engineering Swedish / Finnish as a Second Language: Finnish at Work	5		Х						Х				х	
	Engineering Physics	5	Х							Х					
	Functions and differentials	5	Х							Х					
	Applications, Programming and Reportage	5		Х	х					х	х	х	х		
	Basics of Energy and Environmental Technology	5	Х			Х	Х	Х	Х	Х				Х	X
		60						_		-					
2nd year of study, Basic studies of	Common professional studies for Energy and Environmental Engineering	35													
energy and environmental	I nermodynamics	5	X			X	X		X	X					
engineering and development of	Fluid Mechanics and Basics of Heat Transfer	5	х			X	X	X	X	X	×	×	v		~
professional identity	Environmental Management	Э 5	v			X	X			X	x	х	х		X
	Computer Aided Design	Э 5	X							X					
	Life Cycle Analysis and Circular Economy	5				v	v		v	Ŷ			v		~
	Air Pollution Engineering	5				$\hat{\mathbf{v}}$			^	Ŷ			^		Ŷ
	Fundamentals of Power Plant Engineering (Energy Production Technologies)	25	^			^	^		_	^					^
	Fundamentals of Hydraulics and Mechanics of Materials	5	Y							×					
	Electrical Engineering and Electric Machines	5	x			x				x					
	Energy Technology of Power Plant	5	x			x	x			x					x
	Design of Heat Exchangers	5	x			x	Â			x					î
	Basics of Welding Engineering and Manufacturing methods	5	x							x					
	Water and Waste Treatment Technologies (Environmental Engineering)	25													
	Material and Energy Efficiency	5	х				х		х	х			х		х
	Basics of Environmental Protection	5	х			х	х	х	х	х	x	х	х		х
	Environmental Chemistry	5	х							х					
	Environmental Chemical Analysis	5	х							х					
	Water Treatment Technologies	5	х				х	х		х					х
	In total	60													
3rd year of study, Sustainable energy,	Fundamentals of Power Plant Engineering (Energy Production Technologies)	10													
clean water and the environment	Steam and Gas Turbines	5	х			х				х					
	Boilers and Steam Generators	5	Х			Х	Х			х					Х
	Energy Production (Energy Production Technologies)	25													
	Piping and Plant Design	5	х						х	х					
	Measurement Systems, Condition Monitoring and Maintenance in Power Plants	5	х							х			х		
	Power Plants	5	х			х	х			Х		х	х		х
	Basics of Nuclear Technology	5	Х			х	Х			Х					Х
	District Heating Engineering	C 40	Х			Х	Х			Х					Х
	Water and waste Treatment Technologies (Environmental Engineering)	10 E				v							Y		
	rvasie Treatment Technology	D F	X			X	Х	v	X	X			x		Х
	Resource Effective Society (Environmental Engineering)	25	^					×		~					
	Clean Water and Sewage Pining Design and Maintenance	23 5	v					v	v	v					V
	Resource Effective Society	5			v		v						v		×
	Water in Municipal Services	5	×		~		~		^				^		^
	Water Management Systems	5	Ŷ					Ŷ		Ŷ					
	Computer Aided Environmental Engineering Applications	5	x					x		x			х		
	Common professional studies for Energy and Environmental Engineering	10													
	Distributed and Renewable Energy	5	х			х	х	х	х	х	х		х		х
	Energy Economics	5				х	х	x					х		X
	Projects on Energy and Environmental	15													
	Multidisciplinary Innovation Project	10	х	х	х		Х			х	х	х	х	х	х
	Special assignment in Energy and Environmental Engineering	5	х	х	х		Х			х	х	х	х	х	х
	In total	60													
4th year of study, Growing into a	Bachelor's Thesis	15													
professional in the field of energy and	Planning of the Thesis Work	5	х	х	х		х			Х	Х	Х	х	х	Х
environmental engineering	Execution of the Thesis Work	5	Х	Х	х		х			Х	Х	Х	х	х	Х
	Reporting of the Thesis and Maturity Test	5	Х	Х	Х		Х			Х	Х	Х	Х	Х	Х
	Work Placement	30													
	Work Placement 1	15	Х	Х	Х		Х			Х	Х	Х	х	х	Х
	VVORK Placement 2	15	Х	Х	Х		Х			Х	Х	Х	Х	Х	Х
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