

**Supplementary Table 1. Classified categories for environmental engineering curriculum analysis.**

Main category	Sub category	Remarks	
Engineering fundamental (MSC)	Mathematics	Mathematics, Engineering mathematics, Probability&statistics, Numerical analysis	
	Chemistry	General chemistry&lab	
	Physics	General physics&lab	
	Biology, earth science	General biology&lab, Earth science	
	Computer	Computer programing, CAD related	
Major base	Intro. environmental eng.	Introduction to environmental engineering or similar subject	
	Applied chemistry	Env. chemistry, Env. organic chemistry, Water chemistry, Instrumental analysis etc.	
	Env. microbiology	Env. microbiology, Env. biotechnology etc.	
	Chemical, mechanical eng. base	Mass/energy balance, Thermodynamics/heat transfer, Reaction engineering, Mechanics of material etc.	
	Civil eng. base	Fluid mechanics, Hydraulics, Hydrology, Mechanics of structures etc.	
	Electrical eng. base	Electrical instrument, Environmental instrumentation equipment etc.	
concent-ration	Water	Quality management	Introduction to water quality, Water quality management, Analytical lab of wastewater etc.
		treatment	Water&wastewater treatment related
		Water supply&sewer	Water supply&sewerage-design, planning, pipe networking related
	Air	Climate, Air quality	Climate, Air quality, Modeling, Indoor air pollution, Analytical lab of air pollutant etc.
		Control	Air pollution control related
	Solid waste	Solid waste management	Solidwaste management, Hazardous waste treatment, Analytical lab for solidwaste etc.
		Recycling, LCA	Recycling, LCA related
	Soil/groundwater	-	Soil/groundwater-assessment, purification, remediation related
	Ecology/remediation /impact assessment	-	Environmental impact assessment, Ecology, Environment remediation etc.
	Health/toxicity/ risk assessment	-	Environmental health, Hazardous material handling & management, Pollution prevention, Environmental risk assessment, Environmental toxicology etc.
	Noise/vibration	-	Noise/vibration-control, analysis, measurement related
	Eco/renewable energy	-	Renewable& alternative energy, Clean materials and processes, Eco material, Low carbon energy, Bio-green technology etc.
	Management/policy/law	-	Environmental management, policy, law&regulation related
	Environment etc. I	-	Engineering subjects not included in the above categories, Experiment&practice, engineering design that are difficult to classify in the above categories
	Environment ect. II	-	Field practice, internship etc. Subjects with few engineering elements

**Supplementary Table 2. Universities offering environmental field studies in Korea.**

Total no. of universities	Engineering			Science	
	University (Department)	National/Private	Accreditation of eng. education	University (Department)	National/Private
71	63(63)	25/38	20	14(15)	4/10
Department name	Environmental(department, major, division), Social environmental eng., Environmental-energy eng., Urban environmental eng., Environmental safety eng., Marine environmental eng., Environmental system eng., Earth environment eng., Architectural- environmental eng., Green-chemical eng., Chemical-biotechnical-environmental eng., Bio-environmental eng., Civil-environmental eng., Environmental science&environmental eng., etc.			(Earth)Environmental science, Environmental health and environmental ecology, Bio-environmental science, Bio-environmental-energy, Environmental biology, Marine environmental science	