TON DUC THANG UNIVERSITY

Faculty of Environment and Labor Safety

Studying One Semester in Faculty of Environment and Labor Safety

Course Description

Stt	Courses	Objectives	Contents	Number of Credit	Theory	Field or Laboratory	Form of Exam			
	Option 1 – Environmental Science									
1	Applied informatics of environment	Provide students with some basic knowledge about informatics technology application, geograhic information system (GIS), methods of environmental modelling in water supply and sanitation network management.	The course includes basic knowledge about - Information technology - Geograhic information system (GIS) - Computer models for environment.	3	2	1	- Exercise - Seminar - Report			
2	Environmental toxicology	Provide students with basic knowledge about environmental toxicity, types of environmental toxins and their effects on human and ecosystems, risk assessment of environmental toxicity.	The course includes basic knowledge about - Environmental toxicity - Types of environmental toxins and their effects on human and ecosystems - Risk assessment of environmental toxicity.	2	2	0	- Exercise - Seminar - Report			
3	Biodiversity conservation	Provide students with basic knowledge about biodiversity	The course includes basic knowledge about	3	2	1	- Exercise - Seminar			

		and conservation biology, approaches to conservation and sustainable development, threats to biodiversity, biodiversity conservation at levels of biological organization (genes, species, populations, communities, ecosystems, landscapes, and regions), approaches and planning for biodiversity conservation and sustainable development.	 Biodiversity and conservation biology Approaches to conservation and sustainable development Threats to biodiversity, biodiversity conservation at levels of biological organization (genes, species, populations, communities, ecosystems, landscapes, and regions) Approaches and planning for biodiversity conservation and sustainable development. 				- Report
4	Environmental resources management	Provide students with basic knowledge about environmental management systems such as tools for present environmental management, regional environmental management, management of specific ecosystems (wetlands, river basin, tidal area,).	The course includes basic knowledge about environmental management systems such as tools for - Resent environmental management - Regional environmental management - Management of specific ecosystems (wetlands, river basin, tidal area,).	2	2	0	- Exercise - Seminar - Report

	Option 2 – Environmental Engineering							
1	Wastewater treatment engineering	Option 2 Provide students with basic knowledge about water treatment engineering such as the characteristics of municipal and industrial wastewater, wastewater treatment methods including physicochemical and biological wastewater treatment	- Environmental Engineerin The course includes basic knowledge about water treatment engineering such as the characteristics of municipal and industrial wastewater, wastewater treatment methods including physicochemical and biological wastewater treatment processes and	ng	2	1	- Exercise - Seminar - Report	
2	Water	processes and case studies on common wastewater treatment plants.	case studies on common wastewater treatment plants.	2	2	0	- Exercise	
	treatment engineering	Provide students with basic knowledge about water treatment processes such as Coagulation- Flocculation, Sedimentation, Flotation, Filtration, Ion exchange, Infestation	knowledge about water treatment processes such as Coagulation- Flocculation, Sedimentation, Flotation, Filtration, Ion exchange, Infestation		2		- Seminar - Report	
3	Solid and hazardous waste management	Provides students with the basic knowledge about properties of solid and hazardous waste, solid and hazardous waste management; and waste treatment engineering.	Course includes basic knowledge about properties of solid and hazardous waste; solid and hazardous waste management; and waste treatment engineering.	3	2	1	- Exercise - Seminar - Report	

4	Critical	Provides basic knowledge of	Course includes	2	2	0	- Exercise
	analysis in	protecting human health and	introduction of critical				- Seminar
	environmental	environment system in the light	analysis in environmental				Donort
	management	of economic development;	management, methods of				- Report
		suggesting solutions for	assessing the risk, critical				
		prevention and elimination of	analysis in environmental				
		environmental, health and social	management, cross-cutting				
		risks: and, predicting risks and	aspects of risk				
		hazards to environmental	management, risk				
		managers and investors in order	prevention, response and				
		to establish risk prevention	monitoring; and, case				
		from a work of plane	studies of risk				
			management.				

Notes: 1 credit \approx 15 *periods; 1 period* \approx 45 *minutes*