



SEMESTER LEARNING PLAN

Study Program : Doctoral Program of Environmental Science

Faculty : School of Postgraduate

Courses:	Audit and Environmental Management System	code:	CIL 23824	SKS:	2	Semester:	2 (Two) Elective Course
Lecturer:	Prof. Dr. Ir. Purwanto, DEA; Prof. Dr. Ir. Azis Nur Bambang, MS; Dr. Henna Rya Sunoko, Apt., MES						
Learning Achievements Courses:	Students are able to apply (C3) environmental audits on a regular basis and able to assess (C5) environmental management system.						
Brief Description of Courses:	This course discusses the implementation of environmental audits as well as environmental management systems as national and international standards that support environmental protection and polluting prevention that is balanced with socioeconomic needs.						

1	2	3	4	5	6	7	
Sunday Wed	Final Ability of each learning stage	Study Materials / Subject Matter	Learning Methods	time	Student Learning Experience	valuation	
						Criteria & Indicators	Weight (%)
1	Able to explain environmental audit	Definition of Audit Scope of environment Definition of Environmental Audit	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy of explaining environmental audits	5%
2	Able to explain the principle of auditing as a component of environmental management	Auditing as a component from management milieu	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy explains the principle of auditing as a component of environmental management	5%
3	Able to explain the philosophy of environmental management	Philosophy Management basic environment Auditing in the context of environmental risks	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy explains the philosophy of environmental management	5%

4	Able to explain the causes and benefits of environmental audits And the type of audit	Causes and benefits of environmental audits Audit type	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy explains the causes and benefits of environmental audits And the type of audit	5%
5	Able to explain the stages of environmental audit	Stages of environmental audit Audit Preparation Audit Implementation Audit Data Analysis Audit Data Reporting	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy explains the stages of environmental audit	5%
6	Able to explain Pre and Post audit Activities	Pre and Post audit Activities	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy of explaining Pre and Post audit Activities	5%
7	Able to analyze differences in environmental auditors and environmental audits in Indonesia	Environmental auditors Environmental Audit in Indonesia	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy of analyzing differences in environmental auditors and environmental audits in Indonesia	5%
8	Able to explain the basic principles of Environmental Management System	Understanding, History, Roles and Characteristics of Environmental Management System Elements, Models and basic principles of Environmental Management System	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy explains the basic principles of Environmental Management System	5%

9	Able to analyze management processes and organizational principles	Process Management Organizational Principles HR Aspects Policy Making Process and Analysis	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy of analyzing management processes and organizational principles	5%
10	Able to implement Environmental policy	SML Requirements Environmental Policy Environmental Aspects	- Speech - discussion	TM: 3 x 50" BT + BM = (3 x 60") + (3 x 60")	- Group discussion - Submit an opinion	Accuracy of environmental policy	5%
11-12	Able to explain factors for SML mplementation and operation	Deployment and Operation Human resources Competence control Alertness	- Speech - discussion	TM: 6 x 50" BT + BM = (6 x 60") + (6 x 60")	- Group discussion - Submit an opinion	Accuracy explains factors for SML implementation and operations	10%
13-14	Able to monitor and measure SML	SML Monitoring and Measurement Setup Evaluation	- Speech - discussion	TM: 6 x 50" BT + BM = (6 x 60") + (6 x 60")	- Group discussion - Submit an opinion	Accuracy of monitoring and measuring SML	20%
15-16	Able to evaluate SML	Management Overview	- Speech - discussion	TM: 6 x 50" BT + BM = (6 x 60") + (6 x 60")	- Group discussion - Submit an opinion	Accuracy of evaluating SML	20%
Reference List:		<ul style="list-style-type: none"> - Kell, Walter G., and W.C. Boyton. 1992. "Modern Auditing", New York: John Wiley and Sons, Inc., Fifth Edision. - Thomson, R.P., and T.E. Simpson. 1993. "Environmental Auditing", Internal Auditor - ISO 14001- Environmental Management System Implementation Guide. Gramedia. Main Library. - Sunu, Pramudya. 2001. Protecting the Environment by Applying ISO 14001. - PT Grasindo. Jakarta. - SNI 19-14001-2005 Environmental Management System 					