

4. Audit and Environmental Management System

Module designation	Audit and Environmental Management System
Module level, if applicable	-
Code, if applicable	CIL 23824
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	2 nd Semester
Person responsible for the module	Prof. Dr. Ir. Purwanto, DEA
Lecturer	Prof. Dr. Ir. Purwanto, DEA Prof. Dr. Ir. Azis Nur Bambang, MS; Dr. Henna Rya Sunoko, Apt., MES
Language	Indonesian and English
Relation to curriculum	Elective
Type of teaching, contact hours	<ul style="list-style-type: none"> • Regular meeting with Lecturer 16 times (40 hours with total contact hour per teaching is 2.5 hours weekly for 16 weeks). This activity consists of Lecture: 80 minutes; Q&A: 20 minutes; Discussion: 30 minutes; Presentation: 20 minutes. • Independent work on reading materials and literature review (48 hours, 3 hours weekly for 16 weeks). • Preparing paper and final personal assignment (40 hours, 2.5 hours weekly for 16 weeks). • Personal work on reflecting the course's gained knowledge to the student's research topic (22 hours, 1.35 hour weekly for 16 weeks). <p>Total contact hours in 1 semester = 150 hours</p>
Student Workload for One ECTS	<ul style="list-style-type: none"> • Face-to-face Lecturers in class (6.67 hours) • Independent work (reading books, materials, papers, literature review, etc. : 8 hours) • Preparing paper and structured assignments (doing homework or assignments given by lecturers : 6.67 hours) • Personal work on reflecting the course's gained knowledge to the student's research topic (3.67 hours) <p>Total workload for one ECTS = 25 hours</p>
Laboratory Work	<i>There is no required laboratory work for this course</i>
Credit points	2 SKS which is equivalent to 6 ECTS
Requirements according to the examination	Minimum attendance of lectures 75%

regulations	
Recommended prerequisites	-
Module objectives/intended learning outcomes	<ul style="list-style-type: none"> • Able to explain the basic principles of Environmental Management System • Able to explain the causes and benefits of environmental audits and the type of audit • Able to explain the stages of environmental audit • Able to implement Environmental policy • Able to analyze differences in environmental auditors and environmental audits in Indonesia
Content	<ul style="list-style-type: none"> • Definition of audit scope of environment definition of environmental audit, • Auditing as a component from management milieu, • Philosophy Management basic environment Auditing in the context of environmental risks, • Causes and benefits of environmental audits, • Stages of environmental audit • Audit Preparation, • Audit Implementation, • Audit Data Analysis • Audit Data Reporting, • Pre and Post audit Activities, • Environmental auditors Environmental Audit in Indonesia, • Understanding, History, Roles and Characteristics of Environmental Management System Elements, • Models and basic principles of Environmental Management System, • Process Management Organizational Principles HR Aspects Policy Making Process and Analysis, • SML Requirements Environmental Policy Environmental Aspects, • Deployment and Operation Human resources Competence control Alertness, • SML Monitoring and Measurement Setup Evaluation, • Management Overview

Study and examination requirements and forms of examination	<ul style="list-style-type: none"> • Open book and close book <p>Multiple choice, case studies, interviews</p>
Media employed	Power point, youtube, website
Reading Materials	<p>Aslam, S., Rehman, R. U., & Asad, M. (2020). Linking Environmental Management Practices to Environmental Performance: The interactive Role of Environmental Audit. <i>Pakistan Journal of Commerce and Social Sciences (PJCSS)</i>, 14(1), 99-119.</p> <p>Earnhart, D., & Harrington, D. R. (2021). Effects of Audit Frequency, Audit Quality, and Facility Age on Environmental Compliance. <i>Applied Economics</i>, 53(28), 3234-3252</p> <p>Hakim, W., & Yunus, A. (2017). Environmental Audit as Instrument for Environmental Protection and Management. <i>The Business & Management Review</i>, 9(2), 228-232.</p> <p>Kuhre, W. L. (2018). <i>ISO 14001 Certification: Environmental Management System</i>. Prentice Hall.</p>