

Module Handbook

Modul Name	Environmental Pollution
Modul Level	Bachelor
Abbreviation, if applicable:	BIL 304
Sub--heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Even
Module Coordinator	Prof. Agoes Soegianto
Lectures	Prof. Agoes Soegianto Sucipto Hariyanto
Language	Bahasa Indonesia Sucipto
Classification within the curriculum:	Compulsory Course / Elective Studies
Teaching format/ class hours per week during semester	300 minutes/ week
Workload per semester	100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS
Credit point	2
Requirements	Minimum 90 credits
Learning goals/competencies	<p>General Competence (Knowledge) Students able to connect the sources and impact of environmental pollutions, choose and decide the method for controlling it.</p> <p>Specific Competence</p> <ol style="list-style-type: none"> 1. Understanding liquid waste pollution and how to handle it 2. Understanding nutrient pollution toward environment, its effect, and how to handle it 3. Understanding plastic pollution, its effect, and how to handle it 4. Understanding oil and gas pollution, exploration, and its production in offshore 5. Understanding the impact of offshore oil and gas exploration and production 6. Understanding oil and gas offshore exploration and production accident 7. Understanding air pollution (types and sources) 8. Understanding the impact of air pollution on plant, animal, and human 9. Understanding the impact of air pollution on acid rain and acid smog as well as how to handle air pollution 10. Understanding the production and disposal of solid waste 11. Understanding the production and disposal of dangerous waste 12. Understanding the control and management of dangerous waste
Content	Definition of pollution, aquatic pollution, solid wastes environmental pollution. Enviroment and health. Air pollution, water pollution, solid wastes pollution. Polution control.
Soft skill Attribute	Discipline and Argumentation

Study/ exam achievements	<p>Students are considered to be competent and pass if at least get 40% of maximum. Final score (NA) is calculated as follow: mid exam (45%), final exam (45%), Soft skill (10%)</p> <p>Final index is defined as follow:</p> <p>A : 75 - 100 AB : 70 - 74.99 B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99 D : 40 - 54.99 E : 0 - 39.99</p>
Form of media	LCD, computer
Learning Method	Class, discussion, and seminar
Literature	<p>a. Fardiaz, S. 1992. <i>Polusi Air dan Udara</i>. Penerbit Kanisius. Yogyakarta.</p> <p>b. Miller, Jr., G.T. 1986. <i>Living in the Environmental</i>. Wadsworth Publishing Company, Belmont. California.</p> <p>c. Soegianto, A. 2004. <i>Metode Pendugaan Pencemaran Perairan Dengan Indikator Biologi</i>. Airlangga University Press.</p>
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