

MODUL
SOLID WASTE AND
HAZARDOUS WASTE
MANAGEMENT



MASTER PROGRAM OF ENVIRONMENTAL SCIENCE
SCHOOL OF POSTGRADUATED STUDIES
DIPONEGORO UNIVERSITY

Modul Description :

Modul design	Solid and Hazardous Waste Management
Modul level, if applicable	
Code, if applicable	P-CIL-8-212
Subtitles, if any	
Course, if applicable	
Semester(s) in which the modul is taught	Semester 2
Modul responsible*	
Teaching Lecturer	1. Dr. Ir. Syafrudin CES., MT 2. Dr. Eng. Maryono, ST, MT
Language	<i>Indonesian and English</i>
Relationship with curriculum	
Type of teaching, hours of contact	<i>Studying:1 x 120 minutes x 16 meetings = 32 hours/week Q&A:1x 20 minutes 16 meetings = 5.3 hours/week Discussion:1x 20 minutes 16 meetings = 5.3 hours/week Presentation:1x 20 minutes 16 meetings = 5.3 hours/week Individual assignments: 36 minutes/day = 3 hours/week Total work for 1 semester = 100 hours = 4 ECTS</i>
Workload	<i>(Estimated) workload, divided into contact hours (lectures, exercises, laboratory sessions, etc.) and personal study, including test preparation, specified in hours,¹and overall.</i>
credit points	<i>2 credits / 4 ECTS</i>
Requirements according to the exam regulations	<i>Lecture attendance of at least 75%</i>
Recommended prerequisites	

Modul the desired learning objectives/outcomes	Students can understand and explain the need for solid waste management and can understand and explain the need for B3 waste management
Fill	The Solid Waste and Hazardous Waste Management course aims to equip students with knowledge, understanding and application of various methods of treating solid and hazardous waste. Lectures discuss various types of solid waste, B3 waste, solid waste management systems, B3 waste management systems with various aspects. Learning activities include lectures with various approaches and methods that involve students a lot, such as discussions, observation activities in the field to learn to identify problems and their solutions, learn to identify problems and their solutions.
Study and exam requirements and forms	<ul style="list-style-type: none"> • <i>Open the book and close the book</i> • <i>Multiple choice, case studies, interviews, practicals</i>
Media used	<i>Powerpoint, youtube, website</i>
Reference	<ol style="list-style-type: none"> 1. Arif Zulkifli, 2014, Sustainable Waste Management, Graha Ilmu, Jogjakarta. 2. Fikri Elanda. 2022. Monograph of Hazardous and Toxic Waste Management. Eureka Media Script. Purbalingga 3. Sembel Dantje. 2015. Environmental Toxicology. ANDI Publisher. Yogyakarta 4. Trihadiningrum Yulinah. 2016. B3 Hazardous and Toxic Waste Management. Technoscience – Graha Science. Yogyakarta