

MODUL SOLID WASTE AND HAZARDOUS WASTE MANAGEMENT



MASTER PROGRAM OF ENVIRONMENTAL SCIENCE
SCHOOL OF POSTGRADUATE STUDIES
DIPONEGORO UNIVERSITY

A Module Descriptions :

Module design	Solid Waste and Hazardous Waste Management
Module level, if applicable	
Code, if applicable	P-CIL-8-212
Subtitles, if applicable	
Courses, if applicable	
Semester(s) in which the module is taught	2 nd Semester
Person responsible for the module	Principal Supervisor*
Lecturer	1. Prof. Dr. Ir. Syafrudin CES., M.T. 2. Dr. Eng. Maryono, ST, MT
Language	<i>Indonesian and English</i>
Relations to curriculum	
Type of teaching, contact hours	<i>Lecture: 120 minutes Q&A: 20 minutes Discussion: 20 minutes Presentation: 20 minutes Individual Assignment: 36 minutes</i>
Workload	<i>(Estimated) workload, divided into contact hours (lecture, exercise, laboratory session, etc.) and private study, including examination preparation, specified in hours,¹ and in total.</i>
Credit points	<i>2 credits / 4 ECTS</i>
Requirements according to the examination regulations	<i>Minimum attendance of lectures 75%</i>
Recommended prerequisites	<i>eg existing competences in...</i>

Module objectives/intended learning outcomes	Students can understand and explain the need for solid waste management and also can understand and explain the need for B3 waste management
Content	Solid Waste and Hazardous Waste Management course aims to equip students with knowledge, understanding and application of various solid and hazardous waste treatment methods. The lectures discussed various types of solid waste, B3 waste, solid waste management system, B3 waste management system 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 solutions, learn to identify problems and their solutions.
Study and examination requirements and forms of examination	• <i>Open book and close book</i> • <i>Multiple choice, case study, interview, practice</i>
Media employed	<i>Powerpoint, youtube, website</i>
Reading list	1. Arif Zulkifli, 2014, Pengelolaan Limbah Berkelanjutan, Graha Ilmu, Jogjakarta. 2. Fikri Elanda.2022.Monograph on Waste Management of Toxic Hazardous Materials. Eureka Media Aksara. Purbalingga 3. Sembel Dantje. 2015. Environmental Toxicology. Publisher ANDI. Yogyakarta 4. Trihadiningrum Yulinah. 2016. Hazardous and Toxic Waste Management B3. Teknosain – Graha Ilmu. Yogyakarta