

Module Handbook

Module Name	Techniques of Waste Treatment				
Module Level	Higher Diploma				
Code, if applicable	VKT746				
The subtitle, if applicable	-				
Courses, if applicable	-				
Semester(s) in which the module is taught	Odd semester				
A person responsible for the module	Tri Esti Purbaningtias, M.Si.				
Lecturer	Tri Esti Purbaningtias, M.Si. Puji Kurniawati, S.Pd.Si., M.Sc. Reni Banowati Istiningrum, S.Si., M.Sc.				
Language	Bahasa Indonesia				
Relation to curriculum	Elective				
Type of teaching, contact hours	Lecture (face to face teaching, structured activities, independent study and exam): 5.7 hours x 16 weeks per semester				
Workload	Total Workload	91 hours; 2 CU			
		Face to face teaching	Structured activities	Independent study	Exam
	Hours	24	28	28	11
Credit Points	2 CU/3.4 ECTS				
Requirements according to the examination regulations	75% minimum requirements of attendance				
Recommended prerequisites	-				
Module objectives/intended learning outcomes	<p>PLO 5: Able to contribute to solving problems in the scope of work</p> <p>Subject LO:</p> <p>Able to explain the meaning, source, and characteristics of waste</p> <p>Able to choose the right waste treatment method based on the nature of the waste</p> <p>Able to apply the principle of waste minimization to reduce the amount of waste for each waste-producing activity</p> <p>Able to correlate the relationship between waste management and aspects of public health</p> <p>Able to analyze (K4) and demonstrate the waste management system for waste-producing sources</p>				
Content	<ol style="list-style-type: none"> Sources and characteristics of waste The principle of waste treatment Minimization of waste Public health aspects of waste management Waste management for waste-producing sources (domestic, industrial, hospital, mining) 				
Study and examination requirements and forms of	Midterm exams (30%), case study (20%), presentation (20%), dan simple design of the waste processing apparatus (30%)				

examination	
Media employed	Google classroom, youtube, zoom meeting, google form, google doc
Reading list	<ol style="list-style-type: none">1. Arundel, J., 2000, Sewage and Industrial Effluent Treatment, Blackwell Publishing Ltd.2. Asmadi, 2013, Pengelolaan Limbah Medis Rumah Sakit, Yogyakarta, GosyenPublishing3. Suharto, I., 2011, Limbah Kimia Dalam Pencemaran Udara dan Air, Jakarta, Andi Publisher4. Wiesmann, U., dan Choi, I. S., 2007, Fundamentals of Biological Wastewater Treatment, Wiley-VCH Verlag Garb.