



## Module Description Sanitation and Management of Industrial Waste

Module designation	Sanitation and Management of Industrial Waste		
Module code	23G03121102		
Semester(s) in which the	3 <sup>rd</sup> semester		
module is taught			
Person responsible for the	❖ Prof. Dr. Ir. Amran, M.Si.		
module (lecturers)	Arfina Sukmawati Arifin, S.TP., M.Si		
	❖ Muhpidah, S.TP., M.Si		
Language	Indonesian language		
Relation to curriculum	Compulsory course		
Teaching methods	Lecture		
Workload	Total workload (estimated):		
	❖ 27 hours of lecture		
	❖ 32 hours of exercise		
	❖ 32 hours of independent study		
Credit points	2 credit points = 3.24 ECTS		
Required and recommended			
prerequisites for joining the			
module			
Module objectives/ Intended	ILO 7. Demonstrates the ability to manage food waste		
Learning Outcomes (ILO)	effectively while ensuring food safety (C4)		
	CLO 1. Students conceptually apply clean production and		
	industrial waste management		
	CLO 2. Students apply conceptually the application of		
	sanitation in the food industry		
Content	❖ Clean production		
	❖ Clean production strategies		
	The principle of waste minimization		
	Clean production techniques		
	The application of clean production in industry.		
	Pollution and its types waste.		
	The processing of inorganic chemical waste		
	<ul> <li>The processing of inorganic chemical waste</li> <li>The processing of solid waste using landfill and composting</li> </ul>		
	systems		
	<ul> <li>The processing of solid waste through pyrolysis</li> </ul>		
	The principles of sanitation		
	· ····c p·····cipies of sumution		



## Bachelor Programme in Food Science & Technology



	<ul> <li>Apply the principles of worker sanitation, room sanitation, equipment sanitation and industrial environment</li> <li>Control systems in the food industry</li> </ul>				
Examination form	Writing (essay)				
Study and examination requirements	Examination requirements: Attendance above 80%  Individual assignments: 50% Quiz: 50%				
	Grading:				
	Numerical range	Letter grade	Conversion value		
	85 - 100	A	4.00		
	80 - < 85	A-	3.75		
	75 - < 80	B+	3.50		
	70 - < 75	В	3.00		
	65 - < 70	B-	2.75		
	60 - < 65	C+	2.50		
	50 - < 60	С	2.00		
	40 - < 50	D	1.00		
	< 40	E	0.00		
	If student(s) receives(s) a score below 40, student(s) must retake the course				
Reading list	ni Petification for Pro	ocessing People's			
	Chocolate. Plantation Tower 52 (6a): 250 -254  2. Beckett, S. T. 1988. Industrial Chocolate Manufacture and				
	Use. The Blackie and Sons Ltd., London				
	3. Hardimandan and B. Kartika. 1980. Guidelines for				
	Collection and Processing of Recorder Results.				
	Cooperation of the Director General of Plantation of the				
	Indonesian Ministry of Agriculture with the Faculty of				
	Agricultural Technology UGM, Yogyakarta 4. Sevitz. M and H. E. FOOTE. 1963. Coffee Processing				
	Technology. Inc. Wesport, Conn				
	5. Fox, J.J and P. J Srageman. 1912. Caffeine, Tea and Coffe in				
	Allenis Coomerical Organic Analysis				
Date of last amendment	9 Maret 2024				