MODULE HANDBOOK

Module Name	Food Analysis		
Module level	Bachelor		
Abbreviation, if applicable	3074112066		
Sub-heading, if applicable	-		
Course included in the	-		
module, if applicable			
Semester/term	7 th / Fourth Year		
Module coordinator(s)	Prof. Dr. Titik Taufikurohmah, M.Si.		
Lecturer(s)	Prof. Dr. Titik Taufikurohmah, M.Si., Rusmini S.Pd., M.Si.		
Language	Indonesian		
Classification within the	optional		
curriculum			
Teaching format/class	2 hours lectures (50 min / hour)		
hours per week during the			
semester:			
Workload:	2 x 50 minutes lectures, 2 x 60 minutes structured activity,		
	2 x 60 minutes individual activity, 14 weeks per semester,		
	79,33 total hours per semester ~ 3.18 ECTS**		
Credit points:	2 CU x 1,59 = 3, 18 ECTS		
Prerequisites course(s):	Analytical chemistry 3, analytical chemistry 4, organic		
	chemistry 2, inorganic chemistry 2, biochemistry 2		
Targeted learning outcomes:	CLO 1: Students have knowledge of the basic principles of		
	analysis of foodstuffs both macro and micro nutrient		
	ingredients using appropriate methods both classical		
	(gravimetric and volumetric) and modern (UV-Vis		
	Spectrophotometry, AAS, Chromatography and Electrical), as		
	well as method selection. based on exact material properties		
	according to AOAC standard methods, food safety principles		
	and the latest journals		
	CLO 2: Skilled students use tools in analyzing food		
	ingredients, both macro and micro nutrient ingredients, using		
	appropriate methods, both classical (gravimetric and		
	volumetric) and modern (UV-Vis Spectrophotometry, AAS,		
	Chromatography and Electric), as well as method selection		
	based on exact material properties according to AOAC		
	standard methods, food safety principles and the latest		
	journals		
	"		
	CLO 3: Students have the ability to collaborate and are		
	responsible in carrying out the process of analyzing foodstuffs		
	both macro and micro nutrient food ingredients using		
	appropriate methods both classical (gravimetric and		

	volumetric) and modern (UV-Vis, AAS, Chromatography and Electrical Spectrophotometry), as well as selecting a method based on the properties of the right material according to AOAC standard methods, food safety principles and the latest journals CLO 4: Students have the ability to communicate the results of analysis of foodstuffs both macro and micro nutrient ingredients using appropriate methods both classical		
	(gravimetric and volumetric) and modern (UV-Vis Spectrophotometry, AAS, Chromatography and Electrical), as well as the selection of methods based on exact material properties according to AOAC standard methods, food safety		
	principles and current journals.		
Study / exam achievements:	 preliminary food analysis food analysis methods data analysis techniques analysis of water content in food analysis of ash content in food analysis of mineral content in food analysis of vitamin levels in food Protein content analysis in food analysis of fat content in food analysis of carbohydrate content in food analysis of levels of additives in food analysis of contamination levels in food food safety Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio: 		
	Assessment Components	Percentage of contribution	
	Participation	20%	
	Assignment	30%	
	Mid-semester test	20%	
	Final semester test	30%	
Media:	Computer, LCD, White board,		
Learning Methods	Individuals assignment, group assignment, discussion, presentation, and practicum		
Literature:	 Slamet Sudarmaji, dkk, 1996. Analisis Bahan Makanan dan Pertanian, Yogyakarta: Liberty James, C.S.,1995 Analitycal Chemistry of Foods, Blackie Academic and Professional Artikel-artikel Journal yang relevan 		

Notes:	*1 CU in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. The Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.
	**1 CU = 1,59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/Hk/Ak/2019