MODULE HANDBOOK

Module Name	Food Analysis
Module level	Bachelor
Abbreviation, if applicable	8420402001
Sub-heading, if applicable	0420402001
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	Bahasa Indonesia
Classification within the curriculum	Elective Course
	2 hours lectures (50 min / hour)
Teaching format/class	2 hours lectures (50 min / hour)
hours per week during the	
semester:	1 CU for bachelor degree equals to 3 workhours per week or
Workload:	170 minutes (50' face to face learning, 60' structured learning,
	and 60' independent learning). In one semester, courses are
	conducted in 14 weeks (excluding mid and end-term exam).
	Thus, 1 CU equals to 39.67 workhours per semester. One CU
	equals to 1.59 ECTS.
Credit points:	2 CU = 2 x 1.59 = 3, 18 ECTS
Prerequisites course(s):	Analytical chemistry 3, analytical chemistry 4, organic
Trerequisites course(s).	chemistry 2, inorganic chemistry 2, biochemistry 2
Targeted learning outcomes:	CLO 1: Students have knowledge of the basic principles of
Targeted learning outcomes.	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
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	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.
Content:	1. preliminary food analysis
	2. food analysis methods
	3. data analysis techniques4. analysis of water content in food
	5. analysis of ash content in food
	6. analysis of mineral content in food
	7. analysis of vitamin levels in food
	8. Protein content analysis in food
	9. analysis of fat content in food
	10. analysis of carbohydrate content in food
	11. analysis of levels of additives in food
	12. analysis of contamination levels in food
	13. food safety
Study / exam achievements:	Students are considered to be competent and pass if at least
	get 55
	Final score is calculated as follows: 20% participation + 30%
	assignment + 20% middle exam (UTS) & 30% final exam
	(UAS) Table in device for eduction
	Table index of graduation • $A = 4 (85 \le 100)$
	• $A = 4 (85 \le 100)$ • $A = 3,75 (80 \le 85)$
	• $A^{-} = 3,75 (80 \le -85)$ • $B^{+} = 3,5 (75 \le -80)$
	• $B = 3 (70 \le -75)$
	• $B = 2,75 (65 \le -75)$
	• $C + = 2,5 (60 \le -3,6)$
	• $C = 2(55 \le -(60))$
	• $D = 1 (40 \le -(55))$
	• $E = 0 (0 \le -40)^{-1}$
Media:	Computer, LCD, White board, laboratory
Learning Methods	Individuals assignment, group assignment, discussion,
	presentation, and practicum
Literature:	1. Slamet Sudarmaji, dkk, 1996. Analisis Bahan Makanan
	dan Pertanian, Yogyakarta: Liberty
	2 James C.S. 1005 Anality of Chamiston (Fig. 1 Pl. 1)
	2. James, C.S., 1995 Analitycal Chemistry of Foods, Blackie

Academic and Professional
3. Artikel-artikel Journal yang relevan