MODULE HANDBOOK

Module Name	Qualitative Analytical Chemistry
Module level	Bachelor
Abbreviation, if applicable	8420402094
Sub-heading, if applicable	-
Course included in the	-
module, if applicable	
Semester/term	2 nd /First Year
Module coordinator(s)	Prof. Dr. Sri Poedjiastoeti, M.Si.
Lecturer(s)	1. Prof. Dr. Sri Poedjiastoeti, M.Si.
	2. Dr. Maria Monica Sianita, M.Si.
	3. Rusmini S.Pd., M.Si.
Language	Bahasa Indonesia
Classification within the	Compulsory Course
curriculum	
Teaching format/class	2 hours lectures (50 min / hour)
hours per week during the	
semester:	
Workload:	1 CU for bachelor degree equals to 3 workhours per week or
	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
Prerequisite course(s):	Basic chemistry 1
Targeted learning outcomes:	CLO 1 : Students are able to collect information from various
	sources, both ICT and non-ICT, so that they have
	knowledge of supporting theories, experimental
	techniques and how to carry out qualitative analysis.
	CLO 2 : Skilled students use tools and materials in conducting
	e
	qualitative analysis through the stages of preliminary
	analysis, analysis of cations and anions in a
	compound and the reactions that occur.
	CLO 3: Students have the ability to work together and be
	responsible for conducting a quality analysis.
	CLO 4: Students have the ability to communicate their
	lange and shifts in the former of the morely of
	knowledge and skills in the form of the results of
	qualitative analysis of chemical compounds in single
Content:	qualitative analysis of chemical compounds in single or multiple samples
Content:	qualitative analysis of chemical compounds in single or multiple samples
Content:	qualitative analysis of chemical compounds in single or multiple samples1. supporting theory in qualitative analysis
Content:	 qualitative analysis of chemical compounds in single or multiple samples 1. supporting theory in qualitative analysis 2. qualitative analysis experimental techniques
Content:	 qualitative analysis of chemical compounds in single or multiple samples 1. supporting theory in qualitative analysis 2. qualitative analysis experimental techniques 3. preliminary analysis

	7. cation analysis group III
	8. cation analysis for group IV
	9. analysis of group V cations
	10. Anion analysis
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 index of graduation
	• A = 4 ($85 \le 100$)
	• A- = 3,75 (80 ≤-< 85)
	• $B+=3,5 \ (75 \le -80)$
	• B = 3 (70 $\leq -<$ 75)
	• B- = 2,75 (65 ≤-<75)
	• $C + = 2,5 \ (60 \le -<65)$
	• $C = 2(55 \le -(60))$
	• D = 1 (40 $\leq - \langle 55 \rangle$)
	• $E = 0 (0 \le -40)$
Media:	Computer, LCD, White board, laboratory
Learning Methods	Individuals assignment, group assignment, discussion,
	presentation, and practicum
Literature:	1. Sawyer, Heineman, and Beebe.1984. Chemistry
	Experiments for Instrumental Methods. New York: John
	Wiley & Sons
	2. Svehla, G, 1979. Vogel's Text Book of Macro and
	Semimicro Qualitative Inorganic Analysis. Fifth ed.
	London: Longman Group Limited
	3. Sorum, Clarence Harvey, and Lagowski, J. J. 1977.
	Introduction to Semimicro Qualitative Analysis. United
	State of America: Prentice-Hall Inc
	4. Briggs, J. G. R. 2000.Chemistry for GCE 'O' Level
	Practical Workbook. Singapore: Pearson Education Asia
	Practical Workbook. Singapore. Pearson Education Asia Pte Ltd
	5. Poedjiastoeti, S., Monica, M., Sukarmin, dan Rusmini.
	2016. Kimia Analisis Kualitatif. Surabaya: Unesapress