MODULE HANDBOOK

Module Name	Quantitative Analytical Chemistry
Module level	Bachelor
Abbreviation, if applicable	8420403098
Sub-heading, if applicable	-
Course included in the	-
module, if applicable	
Semester/term	3 rd /Second Year
Module coordinator(s)	Prof. Dr. Sri Poedjiastoeti, M.Si.
Lecturer(s)	1. Prof. Dr. Sri Poedjiastoeti, M.Si.
	2. Dr. Utiya Azizah M.Pd.
	3. Dr. Pirim Setiarso, M.Pd.
	4. Dr. Nita Kusumawati, M.Sc.
	5. Rusmini S.Pd, M.Si.
Language	Bahasa Indonesia
Classification within the	Compulsory
curriculum	
Teaching format/class	3 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:	3 CU = 3 x 1,59 = 4.77 ECTS
Prerequisite course(s):	Basic chemistry 2
Targeted learning outcomes:	General Competence (knowledge):
	Students have knowledge of the basic principles of
	quantitative analysis in terms of chemical structure, energetics
	and chemical analysis which includes the analysis process,
	evaluation of analysis results, chemical calculations,
	gravimetric and volumetric analysis (acid-base titration,
	precipitation titration, complexing titration, redox titration)
	and its applications.
	Spesific Competence:
	Skilled students use tools in carrying out quantitative analysis
	in terms of chemical structure, energetics and chemical
	analysis which includes the analysis process, evaluation of
	analysis results, chemical calculations, gravimetric and
	volumetric analysis (acid-base titration, precipitation titration,
	complexing titration, redox titration) and its applications

Study of the basic principles of quantitative analysis in terms of chemical structure, energetics and chemical analysis which includes the analysis process, evaluation of analysis results, chemical calculations, gravimetric and volumetric analysis (acid-base titration, precipitation titration, complexing titration, redox titration), followed by laboratory activities which supports so that students are able to master related concepts, are skilled at using tools, are honest and responsible and can communicate their knowledge and skills scientifically.
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 • $A = 4 (85 \le -2 100)$ • $A = 3.75 (80 \le -85)$ • $B + = 3.5 (75 \le -80)$ • $B = 3 (70 \le -75)$ • $B = 2.75 (65 \le -75)$ • $C + = 2.5 (60 \le -85)$ • $C = 2 (55 \le -80)$ • $D = 1 (40 \le -85)$ • $D = 1 (40 \le -85)$ • $D = 1 (40 \le -85)$
Computer, LCD, White board
Lectures, discussion, assignment
Basset, J., et.al. 1991. Vogel: Texbook of Quantitative Inorganic Analysis Including Elementary Instrumental Analysis. London: Longman Group Limited Day, Jr, R.A., dan Underwood, A.L., 2002. Quantitative Analysis. Sixth Ed. (Alih bahasa: Sopyan, I.). Jakarta: Penerbit Erlangga. Skoog, Douglas. A. 1982, Fundamental of Analytical Chemistry. Fourth Edition. Tokyo: Holt-Sounders Japan