

Module Handbook

Modul Name	Kimia Analitik II
Module Level	Bachelor
Abbreviation, if applicable	3074213028
Sub-heading if applicable	-
Course included in the module, if applicable	-
Semester/ term	3rd / second year
Modul coordinator (s)	Prof. Dr. Sri Poedjiastoeti, M.Si
Lecturer (s)	Prof. Dr. Sri Poedjiastoeti, M.Si, Dr. Utiya Azizah M.Pd, Dr. Pirim Setiarso, M.Pd, Dr. Nita Kusumawati, M.Sc., Rusmini S.Pd, M.Si
Language	Bahasa Indonesia
Classification within the curriculum	Compulsory
Teaching format/class hours per week during the semester	3 hours lectures (50 min / hour)
Workload	3 hours lecture, 3 hours structured activities, 3 hours individual activities, 15 week a semester, and total 135 hours a semester~4,5 ECTS *
Credit point	4 SCU
Requirement	Basic chemistry 2
Learning Outcomes	<p>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.</p> <p>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</p>

Content	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
Study/exam achievements	Students are considered to be competent and pass if at least get 55 Final score is calculated as follows: 20% Partisipasi + 30% tugas + 20% middle exam (UTS) & 30% final exam (UAS) Table index of graduation A = 4 (85 ≤ - >= 100) A- = 3,75 (80 ≤ - < 85) B+ = 3,5 (75 ≤ - < 80) B = 3 (70 ≤ - < 75) B- = 2,75 (65 ≤ - < 75) C+ = 2,5 (60 ≤ - < 65) C = 2 (55 ≤ - < 60) D = 1 (40 ≤ - < 55) E = 0 (0 ≤ - < 40)
Forms of media	Computer, LCD, White board
Learning Methods	Lectures, discussion, assignment
Literature	Basset,J.,et.al.1991. Vogel: <i>Texbook of Quantitative Inorganic Analysis Including Elementary Instrumental Analysis</i> . London: Longman Group Limited Day, Jr, R.A., dan Underwood, A.L., 2002. <i>Quantitative Analysis</i> . Sixth Ed. (Alih bahasa: Sopyan, I.). Jakarta: Penerbit Erlangga. Skoog, Douglas.A. 1982, <i>Fundamental of Analytical Chemistry</i> . Fourth Edition. Tokyo: Holt- Sounders Japan
Note	Physical Chemistry 2 covers the activities of theory, practicum and presentation. Total ECTS = ((total hours workload x 50 min)/60 min)/25 hours Each ECTS is equals wits 25 hours