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	2nd / first year
Module coordinator(s)	Prof. Dr. Sri Poedjiastoeti, M.Si.
Lecturer(s)	Prof. Dr. Sri Poedjiastoeti, M.Si., Dr. Maria Monica Sianita, M.Si; Rusmini S.Pd., M.Si
Language	Bahasa Indonesia
Classification within the curriculum	Compulsory
Teaching format/class hours per week during the semester:	2 hours lectures (50 min / hour)
Workload:	2 hours lecture, 2 hours structured activities, 2 hours individual activities, 15 week a semester, and total 90 hours a semester~2 ECTS *
Credit points:	3 SCU
Prerequisites course(s):	Kimia dasar 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 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 knowledge and skills in the form of the results of qualitative analysis of chemical compounds in single or multiple samples
Content:	1. supporting theory in qualitative analysis 2. qualitative analysis experimental techniques 3. preliminary analysis 4. cation analysis in general 5. cation analysis group I 6. analysis of group II cations 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 ≤-≥ 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)
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 Pte Ltd 5. Poedjiastoeti, S., Monica, M., Sukarmin, dan Rusmini. 2016. Kimia Analisis Kualitatif. Surabaya: Unesapress
Note	Analisis Kualitatif 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