MODULE HANDBOOK

Module Name	Laboratory Organization
Module Level	Bachelor
Abbreviation, if applicable	
Sub-heading, if applicable	-
Course included in the module,	-
if applicable	
Semester/term	3 rd /Second year
Modul coordinator(s)	Dr. Nuniek Herdyastuti, M.Si.
Lecturer(s)	Dr. Nuniek Herdyastuti, M.Si.
	Dr. Utiya Azizah, M.Pd.
	Dr. Mitarlis, S.Pd., M.Si.
	Dr. Muchlis, M.Pd.
	Dra. Nurul Hidayati, M.Si.
Language	Bahasa Indonesia
Classification within the	Compulsory
curriculum	
Teaching format/class hours per	3 hours lectures (50 min / hour)
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 point	3 CU = 3 x 1.59 = 4.77 ECTS
Requirement	-
Study/exam achievements	Students are considered to be competent and pass if at least
	gets core 68
	Final score is calculated as follows: 20% participation, 30 assignment + 20% mid test + 30% final test
Targeted learning outcomes:	CLO 1 Students have ability to apply logical, critical,
	systematic and innovative thinking in the context of
	developing or implementing science and technology
	that pays attention to and applies humanities values.
	and pays attention to and applies namamices values.
	CLO 2 Students have ability to produce correct conclusions
	based on the results of identification that have been
	made and be able to apply skills in educating,
	researching, and managing in the administration of
	chemistry education.
	CLO 3 Students be able to master the theoretical concepts
	(knowledge) about the functions and roles of

	chemical education laboratories, the basics of chemical laboratory development planning, and management of chemical laboratory equipment and materials procurement as well as the principles of K3 (Occupational Health and Safety) and laboratory management. CLO 4 Students have a responsible attitude by applying an understanding of laboratory organization material in
	carrying out lectures and daily practicum and assignments on the field in the future.
Content:	 Introduction: Definition of organization and management, the nature of learning science, laboratory functions and roles, types of laboratories. Planning, development and laboratory management. Procurement and management of equipment and materials, Works safety and its management in the laboratory, Handling of hazardous and toxic materials (B3), Fire and how to handle it, Preparation of solutions, Assessment of activities in the laboratory.
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)
	• $C = 2(33 \le -300)$ • $D = 1(40 \le -35)$ • $E = 0(0 \le -300)$
Media:	Computer, LCD, White board, chemicals and equipment in laboratory for doing practicum
Learning Methods	Individuals assignment, group assignment, discussion, presentation, and practicum

Literature:	1. Mitarlis, Azizah U, Amaria, 2016. Organisasi dan
	Manajemen Laboratorium Pendidikan Kimia. Surabaya:
	Unesa University Press.
	2. Cahyono, A.B. 2004. Keselamatan Kerja Bahan Kimia
	di Industri. Yogyakarta: Gajahmada University Press.
	3. Kumpulan Makalah Seminar. 2003. Safety and Waste
	Analysis in the Laboratory. PT. Merck Tbk. Chemical
	Division Surabaya
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