MINISTRY OF EDUCATION AND CULTURE

UNIVERSITAS NEGERI SURABAYA FACULTY OF MATHEMATICS AND NATURAL SCIENCES

DEPARTMENT OF NATURAL SCIENCES

Ketintang Campus, Jl. Ketintang C12 Building, Surabaya 60231 Phone (031)18296427

Website http://pendidikan-sains.fmipa.unesa.ac.id

Undergraduate Programme in Science Education

Module Handbook

Module Name:	Pengelolaan Laboratorium dan Keselamatan Kerja	
	(Laboratory and Work Management and Safety)	
Module Level:	Bachelor degree/Undergraduate Programme	
Course Code:	8420103158	
Abbreviation, if applicable:	Penglab	
Courses included in the module, if	Not applicable	
applicable:		
Semester/term	III/third year (junior)	
Module coordinator(s):	Siti Nurul Hidayati, S.Pd., M.Pd.	
Lecturer(s):	Siti Nurul Hidayati, S.Pd., M.Pd.	
	Laily Rosdiana, S.Pd., M.Pd.	
	Dr. Hasan Subekti, M.Pd.	
Language:	Bahasa Indonesia (Indonesian Language)	
Classification within the curriculum:	Compulsory / Elective	
Teaching format/class hours per	3 contact hours of lectures (Indonesia credit semester or	
week during the semester:	sks*)	
Workload:	3×50 minutes lectures, 3×60 minutes structured activity,	
	3 x 60 minutes individual activity, 14 weeks per semester,	
	119 total hours per semester ~ 4.77 ECTS**	
Credit point:	3 sks (4.77 ECTS)	
Requirements:	General Physics (8420103045)	
	General Chemistry (8420103074)	
	General Biology (8420103023)	
Learning goals/competencies:	Course Learning Outcomes (CLOs):	
	After taking this course, students will be able to:	
	Analyzing about how to use laboratory tools and	
	managerial functions inthe laboratory;	
	2. Plan procedurally the construction of practical rooms in	
	scool laboratories and their distribution;	
	3. Analyzing manage procedurally the implementation of	
	pactum in school laboratories in accordance with	
	cognitive, affective and psycomotor aspects as well as	
	work safety; and	
	4. Procedurally evaluate the implementation of practicum	
Contont	in a laboratory based on SOP that have been made	
Content:	Laboratory management and administration, work	
	planning and costs, laboratory safety and safety, making	
Attribute Soft skill:	solutions, evaluating laboratory work, and developing SOP	
Attribute 301t Skiii:	Discipline, collaboration, responsibility, and argumentation in the natural classroom setting	
Study/ovam achievaments:	in the natural classroom setting Students are considered to be competent and pass if at	
Study/exam achievements:	least get 40% of the maximum final grade. The final grade	
	(NA) is calculated based on the following weight:	



Assessment Components	Percentage Contribution	
Participation	20%	
Assignment	30%	
Mid-semester test	20%	
Final semester test	30%	
Total	100%	
Student-centered approach, deductive learning, lecturing, discussion, and presentation (structured activities), and flip		
learning		
LCD, PowerPoint, hand out, simulation, and whiteboard and e-learning unesa		
(https://vinesa.unesa.ac.id/course/view.php?id=423)		
 Bettelheim &Landesberg.2000. Laboratory Experiment for Genearal, Organics, and Biochemistry Laboratory Handbook for Teacher Sri Hidayati S, 2001. Penyediaan Alat dan Bahan Praktikum. Makalah Pelatihan teknisi Laboratorium Kimia/Biologi Madrasah Allah se-jawa Timur di Madiun Supriono, Sri Hidayat dan Isnawati, 2011. Pelatihan atau Pembinaan Laboran Sekolah Jatim. Handout, tidak diterbitkan 		
*1 sks in learning process = three contact hours that consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.		
	Participation Assignment Mid-semester test Final semester test Total Student-centered approach, discussion, and presentation learning LCD, PowerPoint, hand out, s and e-learning unesa (https://vinesa.unesa.ac.id/c 1. Bettelheim &Landesberg. for Genearal, Organics, ar Handbook for Teacher 2. Sri Hidayati S, 2001. Peny Praktikum. Makalah Pelat Kimia/Biologi Madrasah A 3. Supriono, Sri Hidayat dan Pembinaan Laboran Seko diterbitkan *1 sks in learning process = t consist of: (a) scheduled inst laboratory (50 minutes); (b) minutes); and (c) individual according to the Regulation of Research, Technology, and H 2015 jo. the Regulation of Individual of	