

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:	Kimia Umum		
	(General Chemistry)		
Module Level:	Bachelor degree/Undergraduate Programme		
Course Code:	8420103045		
Abbreviation, if applicable:	Kimia Umum		
Courses included in the module, if	Not applicable		
applicable:			
Semester/term	I/one (yunior)		
Module coordinator(s):	Dr.Erman.M.Pd.		
Lecturer(s):	Prof. Dr. Erman Dra. Martini, M.Pd Siti Nurul Hidayati, S.Pd., M.Pd. Wahyu Sabtiawan, S.Si., M.Pd		
	Ernita Vika Aulia,S.Pd.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 x 50 minutes lectures, 3 x 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:	-		
Learning goals/competencies:	Course Learning Outcomes (CLOs):		
	1. Capable to use science and technology to obtain		
	information on basic chemical concepts and		
	communicate them		
	2. Mastering the basic concepts of chemistry in the study		
	of material properties		
	3. Able to solve basic chemistry problems in science		
	learning		
	4. Mastering the basic concepts of chemistry including		
	atoms, ions, and molecules, chemical bonds, basic chemical concepts including elements, compounds, and		
	mixtures		
Content:	Scientific Method, Matter and Properties of Matter,		
	Periodic System of Elements, Chemical Bonds,		
	Stoichiometry, Solutions, Colloid Systems,		
Attribute Soft skill:	Discipline, collaboration, responsibility, and argumentation		
	in the natural classroom setting		
Study/exam achievements:	Students are considered to be competent and pass if at		
	least get 40% of the maximum final grade. The final grade		
	(NA) is calculated based on the following weight:		
I			



	Assessment Components	Percentage Contribution	
	Participation	20%	
	Assignment	30%	
	Mid-semester test	20%	
	Final semester test	30%	
	Total	100%	
Learning Methods	Student-centered approach, deductive learning, lecturing,		
	discussion, and presentation (structured activities), and flip learning		
Form of Media:	LCD, PowerPoint, hand out, simulation, and whiteboard		
	and e-learning unesa		
	(https://vinesa.unesa.ac.id/course/view.php?id=423)		
Literature (primary references):	1. Tim Kimia Umum. 2013. <i>Kimia Umum</i> .Surabaya Jurusan Kimia FMIPA Unesa.		
	2. Brady, James.E. 2004. General Chemistry. Principle		
	and Structure. 4 th . ed. New York. John Willey and Sons, Inc.		
	3. Chang, Raymond. 2005. General Chemistry The		
	Essential Concepts Third Edition. USA: McGraw Hill.		
Notes:	*1 <i>sks</i> 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.		
	**1 sks = 1,59 ECTS		