UNIVERSITAS		Faculty of Natural Sciences and Mathematics Chemistry Department Chemistry Education Study Program			
Module name		Chemistry for Senior High School I			
Module level, if applicable		2 nd Year			
Code, if applicable		SPK-428			
Semester(s) in which the module is taught		4 th semester			
Person responsible for the module		Krisna Merdekawati, M.Pd			
Lecturer		Krisna Merdekawati, M.Pd Yogo Dwi Prasetyo, M.Pd., M.Sc			
Language		Bahasa Indonesia			
Relation to curriculum		Compulsory			
Teaching methods	Class size	Forms of active participation	Workload 91 hours		
Theory	50-60	Discussion	Lecture: 100 (min) x 16 (meeting)	27 hours	
			Assignment: 120 (min) x 16 (week)	32 hours	
			Independent study: 120 (min) x 16 (week)	32 hours	
ECTS credit		3.25			
Credit points		2 SCU			
Requirements according to the		Minimum attendance at lectures is 75% (according to UII			
examination regulations Recommended prerequisites		regulation) N/A			
Related course		Chemistry for Senior High School I			
Module objectives/intended		On successful completion of the course students should be			
learning outcomes		able to:			
		1. Abstract the concept of atomic structure and the			
		periodic system of elements in life.			
		a. Atomic models and quantum mechanics.			
		b. The periodic table of chemical elements.			
		2. Explain the concept of chemical bonds.			

Content	 a. Analyze the differences between ionic, covalent, and hydrogen bonds. b. Make models and describe molecular shapes and intermolecular forces. 3. Explain the concept of electrolyte and non-electrolyte solutions and redox reactions. a. Analyze the difference between electrolyte and non-electrolyte solutions. b. Abstract redox reactions in life 4. Explain the concept of compound nomenclature and reaction equations. a. Identify the rules for naming compounds. b. Make reaction equations. 5. Explain the basic laws of chemistry and solution stoichiometry. a. Demonstrate the basic laws of chemistry. b. Determine the stoichiometry of a compound. 			
Content	 High school chemistry curriculum: development goals and direction, 			
	 High school characteristics, High school learning substances, High school learning superstances, 			
	 High school learning competencies, and High school chemistry materials for grades I. 			
Study and examination	Final score (NA) is c	ore (NA) is calculated as follows:		
requirements and forms of	Intended	Weight	Technique of	
examination	learning outcomes	(%)	assessment	
	2	20	Written test (midterm)	
	3	20 20	Written test (midterm) Written test (midterm)	
	4	20	Written test (Final	
			Examination)	
	5	20	Written test (Final	
Madia amplayad	Downsoint alida	gantation ==	Examination)	
Media employed Reading list	•		deo, Google classroom hemistry Principles and	
Treating not			York: John Willey & Sons.	
	Ebbing, D., and Gammon, S.D., 2008, Experiments in General Chemistry, 9th ed., New York: John			
	Willey & Sons.			
	Permendikbud No. 59 Tahun 2014 tentang Kurikulum 2013 SMA/ Madrasah Aliyah			
	ZU13 SMA/ Madrasan Aliyan			

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Prepared by:	Verified by:	Authorized by:
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Person responsible for the module	Studen, representative	Coordinator Program