

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF CHEMISTRY 1 Colombo Street Yogyakarta 55281 Phone (0274)565411, Ext. 1398, Fax (0274)548203 Website: kimia.fmipa.uny.ac.id, E-mail: kimia@uny.ac.id

Bachelor of Science in Chemistry

MODULE HANDBOOK

Module name:	Chemical Equilibrium				
	Chemical Equilibrium				
Module level, if applicable: Code:	Undergraduate KIM6405				
	KIN0405				
Sub-heading, if applicable:	-				
Classes, if applicable:	- 4th				
Semester:	4 th				
Module coordinator:	Dr. Isana Supiah Yosephine Louise, M.Si				
Lecturer(s):	Dr. Isana Supiah Yosephine Louise, M.Si				
Language:	Bahasa Indonesia and English				
Classification within the curriculum:	Compulsory Subject				
	• Lectures: 150 minutes lectures, 180 structured activities and				
Teaching format / class hours per week during the semester:	180 individual study per week				
	• Laboratory work: 170 minutes includes the laboratory work				
	and it's reporting per week				
	Total workload of the activity is 181,33 hours per semester				
	which consists of 150 minutes lectures, 180 structured				
Workload:	activities and 180 individual study and also 170 minutes				
	laboratory work with it's reporting per week for 16 weeks				
	4 SKS (7 ECTS) with the details of 3 SKS (5 ECTS) lectures				
Credit points:	and 1 SKS (2 ECTS)				
Prerequisites course(s):	General Chemistry				
	Mathematics for Chemistry				
	After taking this course, the students are expected to be able				
	to:				
	CO1 Able to apply the theory of chemical balance to				
Course Outcome:	solve problems scientifically				
	CO2 Able to express thought patterns or ideas				
	CO3 Applying the concept of chemical balance to chemical research innovation				
	Chemical Equilibrium subjects discuss the concept of gas and				
	its properties, the first law of thermodynamics and its				
Content:	application, thermochemistry, the second and third laws of				
	thermodynamics and their application, chemical balance,				

	 phase balance, physical properties of solutions, and electrochemical balance. Learning Materials: Gas and its properties The First Law of Termodinamiaka Thermochemistry Second and Third Laws of the Law of Thermodynamics Chemical Balance Electrode balance Electrode balance Electrode balance Electrode balance Electrode balance Solution Phase Balance Electrode balance Electrode balance Electrode balance Electrode balance Attitude assessment is carried out at each meeting by 						
	assur The s show The r the fi	nal mark will be weight as follow:					
Study / exam achievements:	good The f	attitude. ïnal mark	will be weight as follow	w:			
Study / exam achievements:	good	attitude.			Weight		
Study / exam achievements:	good The f	attitude. ïnal mark	will be weight as follow	w: Assessment			
Study / exam achievements:	good The f No 1	attitude. inal mark CO1, CO1, CO2, CO3,	a. Assignments b. Mid-term Semester c. Final Exam d. Activities e. Practicum	w: Assessment Technique Presentation / written test Total	Weight 30% 10% 20% 10% 30% 100%		
Study / exam achievements:	good The f No 1 Labo	attitude. inal mark CO1, CO2, CO3, ratory w	a. Assignments b. Mid-term Semester c. Final Exam d. Activities	w: Assessment Technique Presentation / written test Total equipment, Boa	Weight 30% 10% 20% 10% 30% 100%		

PLO and CO mapping

	PLO									
	Attitude	Gener	al Skill	Knowledge			Specific Skill			
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1					\checkmark					
CO2										
CO3									\checkmark	