

## UNIVERSITAS NEGERI YOGYAKARTA

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## Bachelor of Education in Science

## MODULE HANDBOOK

Module name:	Labwork of General Chemistry 1
Module level, if applicable:	Undergraduate
Code:	IPA6109
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	1 <sup>th</sup> (first)
Module coordinator:	Purwanti Widhy H, M.Pd
Lecturer(s):	Purwanti Widhy H, M.Pd, Putri Anjarsari, M.Pd
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90.67 hours per semester which consists of 100 minutes lectures and 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	1
Prerequisites course(s):	
Targeted learning outcomes:	<ul> <li>After taking this course the students have ability to:</li> <li>CO1. Show independence and responsible in carrying out individual tasks and group assignments</li> <li>CO2. show independent, systematic and measurable performance</li> <li>CO3. make decisions about solving problems related to chemical experiments consists of determining the compound formula from experimental data; molar volume of gas, reaction enthalpy; properties of solution. Concentration and reaction rate, temperature and</li> </ul>

	CO4	chroma	n rate; separation c tography; and acid bas sible for achieving the r	se and titration	curve.	per					
Content:	This course contains solving problems related to chemical experiments consists of determining the compound formula from experimental data; molar volume of gas, reaction enthalpy; properties of solution. Concentration and reaction rate, temperature and reaction rate; separation of compounds by paper chromatography; and acid base and titration curve.										
Study / exam achievements:	obse assu The if the gene of the cours good	Technique									
Forms of media:	Boar	d, LCD F	Projector, Laptop/Comp	Total outer	100%						
Literature:	<ul> <li>A. Brown, Theodore, et .al, 1976, Chemistry the central science.Pearson: Pearson Pertice Hall.</li> <li>B. Chang, R., 2004, KIMIA DASAR (konsep-konsep inti), edisi ketiga, jilid 2, Erlangga, Jakarta</li> <li>C. Keenan, 1989, Kimia untuk Universitas, edisi keenam, jilid 2, Erlangga, Jakarta</li> <li>D. Silberberg, Martin S. 2006. Principles of General Chemistry. McGraw-Hill Higher Education.</li> </ul>										

## PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		~										

CO2				✓		
CO3					✓	
						✓