



UNIVERSITAS NEGERI YOGYAKARTA
 FACULTY OF MATHEMATICS AND NATURAL SCIENCES
 DEPARTMENT OF CHEMISTRY EDUCATION
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Bachelor of Education in Chemistry

MODULE HANDBOOK

Module name:	Chemistry History and Perspective
Module level, if applicable:	Undergraduate
Code:	MPK 6212
Sub-heading, if applicable:	-
Classes, if applicable:	1
Semester:	Odd
Module coordinator:	Dr. Das Salirawati
Lecturer(s):	Erfan Priyambodo, S.Pd.Si.,M.Si.
Language:	Bahasa Indonesia and English
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	Lectures: 100 minutes lectures, 120 minutes structured activities and 120 minutes individual study per week
Workload:	Total workload of the activity is 136 hours per semester which consist of 100 minutes lectures, 120 minutes structured activities, 120 minutes individual study per week.
Credit points:	2SKS (3.28 ECTS)
Prerequisites course(s):	-
Course Outcomes	After taking this course the students have ability to: CO1. show responsibility for the work given to them independently CO2. analyze the development of chemical concepts in the course of development of thought and work of chemists CO3. analyze the development of chemical concepts and their relevance to the sequence of stages of understanding the concept for chemical learners CO4. explain the application of chemical history in the process of learning chemistry at school
Content:	This course studies the development (history) of chemistry from prehistoric times to the early 20th century through a philosophical analysis of historical developments by emphasizing how chemists of the past thought and worked at the same time they also develop, evaluate, and use theory and new practical methods, and their applications in the process of learning chemistry in secondary schools.
Study / exam achievements:	Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The final mark will be weight as follow:

	No	CO	Assessment Object	Assessment Technique	Weight
	1	CO1, CO2, CO3, CO4.	Activities Assignments Mid-term exam Final Exam	Presentation / written test	10% 40% 25% 25%
				Total	100%
Forms of media:	Board, LCD Projector, Laptop/Computer				
References:	Diktat Sejarah dan Perspektif Kimia Poedjiadi S & Anna Poedjiadi (2001) <i>Kimia dari zaman ke zaman</i> Bandung: Cendrawasih Hudson J (1992) <i>The History of Chemistry</i> New York: Chapman & Hall. Baird D, Scerri E & McIntyre L (2006) <i>Philosophy of chemistry</i> Springer Greenberg A (2007) <i>From alchemy to chemistry in picture and story</i> New Hampshire: Wille Interscience Inc Publication Partington J R (2011) <i>A History of Chemistry 3rd Ed.</i> Dover Publications.				

PLO and CO mapping

	PLO					
	Attitude		Knowledge	Specific Skill	General Skill	
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6
CO1					√	
CO2			√			
CO3			√			
CO4			√			