

## UNIVERSITAS NEGERI YOGYAKARTA FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF CHEMISTRY EDUCATION JI. Colombo No. 1, Karangmalang, Yogyakarta Phone : +62 274 548203 e-mail: kimia@uny.ac.id Website: pendidikankimia.fmipa.uny.ac.id

## **Bachelor of Education in Chemistry**

## MODULE HANDBOOK

Module name:	Chemistry Learning Media
Module level, if applicable:	Undergraduate
Code:	MPK6202
Sub-heading, if applicable:	-
Classes, if applicable:	2
Semester:	3 <sup>rd</sup>
Module coordinator:	Dr. Das Salirawati
Lecturer(s):	Marfuatun, S.Pd.Si.,M.Si.; Anggiyani Ratnaningtyas Eka Nugraheni, S.Pd.Si.,M.Pd.; Dina, S.Pd.,M.Pd.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours	100 minutes lectures, 120 minutes individual study, and 120 minutes
per week during the semester:	structured activities per week.
Workload:	Total workload is 90.67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	2 SKS (3.28 ETCS)
Prerequisites course(s):	-
Course outcomes:	<ul> <li>After taking this course, the students are expected to be able to:</li> <li>CO1. Plan and create the innovative learning media for chemistry learning</li> <li>CO2. Mention various types of learning media and their functions then plan chemical learning media that are in accordance with the material in the chemical syllabus in schools, students are also expected to be able to describe the production techniques of various chemical learning media</li> <li>CO3. Design and apply produced learning media to explain the chemical concepts that exist in schools</li> </ul>
Content:	In this course we will discuss the meaning of learning media, the role and function of learning media, types of learning media, planning and selection of learning media, production techniques for learning media, learning media presentation techniques, and evaluation of learning media, which are specific to learning chemistry. It is expected that after completing this lecture students will be equipped with the use of learning media, especially the teaching and learning process in schools so that they can enhance the quality of the teaching and learning process which ultimately can improve the quality of learning outcomes
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 marked very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not taken into account in the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude. The final mark will be weight as follow:

	NO	0	Assessment Object	Technique	weight			
	1	CO1, CO2,	Assignments	Presentation	25%			
		CO3.	Mid-term Exam	Written Test	15%			
			Final Exam	Project	45% 15%			
			Participations	Total	100%			
Forms of media:	Board, LCD Projector, Laptop/Computer							
References:	Final Exam         Project         45%           Participations         Total         100%           Board, LCD Projector, Laptop/Computer         Total         100%           Arief S. Sadiman, dkk. (1993), Media Pendidikan. Pengertian, Pengembargan dan Persanfaatannya. Jakarta: Pustekkom dan PT Raja Grafindo Persada           Asnawir dan Usman, B. Media Penpelajaran, Jakarta: Ciputat Pers, 2002)         Azhar Arsyad. (2006). Media Pengajaran, Jakarta: Ciputat Pers, 2002)           Azhar Arsyad. (2006). Media Pengajaran. Jakarta: Ciputat Pers, 2002         Switzerland: Springer Nature.           Djamarah, S., B. (1994). Prestasi Belajar dan Kompetensi Guru. Surabaya: Usaha Nasional.         Gerlach, Vernon S.; Ely, Donald P., and Rob Melnick. (1980).           Gerlach, Vernon S.; Ely, Donald P., and Rob Melnick. (1980).         Teaching and Media. A Systematic Approach. New Jersey: Prentice-Hall, Inc           Heinich, Robert et.a. (1993). Instructional Media and the New Technologies of Instruction. New York : Macmillan         Klosterman, M. L., Sadler, T. D., & Brown, J. (2012). Science teachers' use of mass media to address socio-scientific and sustainability issues. Research in Science Education, 42, 51-74.           Nana Sudjana dan Ahmad Riva'i. (1990). Media Pengajaran Bandung: CV. Sinar Baru.         Ngalim Purwanto. (2000). Psikologi Pendidikan. Bandung: Remaja Rosda Karya.           Priyambodo, E., (2014) Media Pembelajaran Kimia : Pengembangar dan Pemanfaatannya. Diktat Kuliah.         Priyambodo, E. (2014). Media Pembelajaran Kimia : Pengembangar dan Pemanfaatannya. Diktat Kuliah.							

Yudi Munadi. (2008). Media Pembelajaran. Jakarta: GP Press.

## PLO and CO mapping

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