## **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:	Materials Development on Chemistry
Module level, if applicable:	Undergraduate
Code:	MPK 6215
Sub-heading, if applicable:	-
Classes, if applicable:	1
Semester:	Even
Module coordinator:	Dr. Das Salirawati
Lecturer(s):	Marfuatun, S.Pd.Si.,M.Si.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	100 minutes lectures, 120 minutes structured activities, and 120 minutes individual 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:	2SKS (3.28ECTS)
Prerequisites course(s):	-
Course Outcomes	After taking this course the students have ability to: CO1. implement procedures in developing teaching materials CO2. explain the concept of teaching materials in chemistry learning CO3. understand the procedures for developing teaching materials CO4. compile teaching materials according to the concept of developing correct teaching materials
Content:	This course is an elective course with the aim of students being able to develop chemical teaching materials with current and up-to-date sources. This course includes material on the preparation of design, development, management and evaluation of teaching materials. The lecture implementation uses an active learning model with lecture, question and answer, discussion, and project learning methods.
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 result of attitude assessment is not a component of 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	СО	Assessment Object	Assessment Technique	Weight				
	1	CO1	Activities	Presentation	10%				
		CO2	Assignments	/ written test	40%				
		CO3	Mid-term exam						
		CO4.	Final Exam		25%				
			Total	100%					
Forms of media:									
Literature:	CO3 Mid-term exam 25% CO4. Final Exam 25%								

Series, Volume 1013, 4th International Seminar of Mathematics, Science and Computer Science Education 14 October 2017, Bandung, Indonesia

Zahidah Abd Kadir, Shanti Balraj Baboo, Nurul Shuhadah Rosni, Zaidatul Husna Abd Rahman, Nurulain Abu Bakar, (2017), Design & development of digital learning resource (BMT): blended learning approach, IMCOM '17: Proceedings of the 11th International Conference on Ubiquitous Information Management and Communication

Fitriah, (2015), *Teaching Materials*, Itqan, Vol. VI, No. 2 Allen A. Espinosa, (2014), Strategic Intervention Material-Based Instruction, Learning Approach and Students' Performance in Chemistry, International Journal of Learning, Teaching and Educational Research Vol. 2 No.1.

**PLO and CO mapping** 

	PLO										
	Attitude		Knowledge	Specific Skill	General Skill						
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6					
CO1				$\sqrt{}$							
CO2											
CO3			$\sqrt{}$								
CO4											