

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:	Pharmaceutical Chemistry					
Module level, if applicable:	Undergraduate					
Code:	KIM 6215					
Sub-heading, if applicable:	-					
Classes, if applicable:	1					
Semester:	Even					
Module coordinator:	Sukisman Purtadi, M.Pd.					
Lecturer(s):	Prof. Dr. Nurfina Aznam. SU.					
Language:	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):	Basic Organic Chemistry					
Course Outcomes	 After taking this course the students are expected to be able to: CO1. demonstrate an attitude of responsibility and independence in carrying out the given tasks CO2. master concepts in pharmaceutical chemistry including drug limits, drug forms, drug classifications, drug use methods, drug biopharmaceutical aspects, main effects and side effects of drug use, drug structure interactions - receptors, chemical structure of drug molecules and their biological activities, drug analgesics, and central nervous system suppression drugs CO3. make appropriate decisions in solving problems related to the compositions, methods of use, and the main effects and side effects of the drugs collaboratively 					
Content:	This course discusses the concepts of drug limits, drug forms, drug classifications, drug use methods, drug biopharmaceutical aspects, main effects and side effects of drug use, drug structure interactions - receptors, chemical structure of drug molecules and their biological activities, drug analgesics, and central nervous system suppression drugs.					
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 this course if at least they show a good attitude. The final mark will be weighted as follows:						
	No	СО	Assessment Object	Assessment Technique	Weight		
	1	CO1, CO2 and CO3	Performance Individual and Group Assignment Mid-term Exam	Observation Presentation / written test	10% 30% 30%		
			Final Exam		30%		
				Total	100%		
Forms of media:	Board and Board markers, LCD Projector, Laptop/Computer, Modules						
References:	 Handbooks: A. Barber, J. & Rostron, C. 2013. <i>Pharmaceutic Chemistry</i>: Oxford University Press. B. Nurfina Aznam Nugroho dan Eddy Sulistyowati. 200. <i>Kimia Farmasi</i>. Jakarta :Pusat Perbitan Universit: Terbuka. C. Eddy. 1999. Diktat : Obat dan Pengaruhnya Terhada Tubuh Manusia. Suggested Readings: A. Foye. W. O. 1981. <i>Principle of Medicinal Chemistic 2nd edition</i>. Philadelphia : Lea & Febiger B. Moh. Anief. 1990. <i>Perjalanan dan Nasib Obat dala Badan</i>. Yogyakarta: Gadjah Mada University Press. C. Moh. Anief. 1991. <i>Apa yang Perlu Diketahui Tental Obat</i>. Yogyakarta : Gadjah Mada University Press. D. Rasyid. R. dkk (penerjemahan). 1995. <i>Prinsip – Prins Kimia Medisinal</i>. Jilid 1 Edisi 2. Yogyakarta : Gadja Mada University Press. E. Samhoedi, Moch. R. <i>Molecular / Chemic Pharmacology</i>. Yogyakarta: Fakultas Farma Universitas Gadjah Mada. F. Tan Hoan Tjay. 1991. <i>Obat – Obatan Penting, Khas Penggunaan dan Efek – Efek Sampingnya</i>. Jakarta Departemen Kesehatan RI. 						

PLO and CO mapping

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