



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:	Analysis on Organic Compound Structures				
Module level, if applicable:	Undergraduate				
Code:	KIP 6204				
Sub-heading, if applicable:	-				
Classes, if applicable:	2				
Semester:	6 th				
Module coordinator:	C. Budimarwanti, M.Si.				
Lecturer(s):	Prof. Dr. Sri Atun, M.Si.; Prof. Dr. Indyah Sulistyo Arty, M.S.				
Language:	Bahasa Indonesia				
Classification within the curriculum:	Compulsory 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):	Organic Compounds Structure Analysis				
Course Outcomes	After taking this course the students have ability to: CO1. responsible and think independently in completing the assignment CO2. Mastering basic concepts of spectroscopy including UV, IR, NMR (proton and carbon), and MS spectroscopy CO3. analyze the structure of organic compounds based on spectroscopic data				
Content:	The course discusses the basic concepts of spectroscopy, the basic principles of UV, IR, NMR, and MS spectroscopy, and the elucidation of the structure of organic compounds based on spectroscopic data.				
Study / exam achievements:	Attitude observation is carried out at each meeting by self-assessment techniques using the assumption that basically every student has a good attitude. If they show significantly different compared to other students, it is categorized as good or bad. The result of attitude observation is part of every assessment object. Students will pass from this course if they fulfill the final mark as follow:				
	No	CO	Assessment Object	Assessment Technique	Weight
	1	CO1, CO2, CO3.	Assignment Midterm Exam Final Exam	Presentation / written assignment	25%

			Observation	25%
			Written test	50%
			Total	100%
Forms of media:	White Board, LCD Projector, Laptop/Computer, stationery			
References:	Donald L. Pavia, Lampman, Kriz, Vyvyan (1979), Introduction to Spectroscopy, Brooks/Cole, US. Lambert. J. B,(1998), Organic structural spectroscopy, Prentice Hall, New Jersey Sri Atun, (2016) Elusidasi struktur senyawa organik, UNY Press Silverstein R.M., (1997), Spectrometric identification of Organic Compounds, sixth ed. John, Wiley & Sons, New York www.sdbs/spectraldata			

PLO and CO mapping

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