

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF CHEMISTRY

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Bachelor of Science in Chemistry

MODULE HANDBOOK

Module name:	Petroleum Chemistry and Energy					
Module level, if applicable:	Undergraduate					
Code:	KMA 6238					
Sub-heading, if applicable:	-					
Classes, if applicable:	-					
Semester:	7 th					
Module coordinator:	Ir. Endang Dwi Siswani, M.T					
Lecturer(s):	Ir. Endang Dwi Siswani, M.T					
Language:	Bahasa Indonesia and English					
Classification within the	Elective Subject					
curriculum:	·					
Teaching format / class	100 minutes lectures, 120 structured activities and 120					
hours per week during the	individual study per week					
semester:						
Workload:	Total workload is 90,67 hours per semester which consists					
	of 100 minutes lectures, 120 structured activities and 120					
	individual study per week for 16 weeks					
Credit points:	2 SKS (3 ECTS)					
Prerequisites course(s):	-					
Course Outcomes	After taking this course, the students are expected to be					
	able to:					
	CO1 Analyze the results of renewable energy research					
	to solve petroleum problems					
	CO2 Analyzing the utilization of petroleum refining					
	products in daily life					
	CO3 Presenting alternative products as renewable					
	energy innovations					
Content:	Chemistry course Petroleum Chemistry explains to students					
	the importance of petroleum mining and its results for life					
	and human activity in general. In this course, the process of					
	formation of the earth oil is explained, the process of					
	processing it into a product that can be used. Besides that,					
	he also explained about some petroleum products,					
	including: how to manufacture, chemical and physical					
	properties, as well as quality standards. In addition, this					
	course also explains the stages in the design of the					
	establishment of the petroleum refining industry.					
	Petroleum Formation Process					
	Petroleum Processing					
	 Petroleum Refining Products 					
	Petroleum Industry					
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	СО	Assessment Object	Assessment Technique	Weight		
	1	CO1, CO2, CO3,	a. Assignments b. Activity c. Final Exam d. Midterm Exam	Presentation / written test	20% 20% 30% 30%		
		100%					
Forms of media: References:	 Handout, Board, LCD Projector, Laptop/Computer, Module Endang Dwi Siswani (2017), Diktat Kimia Minyak Bum Jurusan Pendidikan Kimia FMIPA UNY 						
	 Shreve, R.N, and Brink, J, A, Jr, (1990), Chemical Process Industries, Mc Graw Hill International Book Co, Tokyo Hardjono A (2006) " Teknologi Minyak Bumi, Gadjah 						
	• H	lada Univ andbook	versity Press, Yogyak of Petroleum Produc 2. 2 nd Edition. John Wil	arta. ct Analysis (201			

PLO and CO mapping

	PLO									
	Attitude	General Skill		Knowledge				Specific Skill		
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1					V					
CO2							V			
CO3									V	