MODULE HANDBOOK

Module Name	Chemical Kinetics
Module Level	Bachelor
Abbreviation, if applicable	8420403135
Sub-heading, if applicable	-
Course included in the	-
module, if applicable	
Semester/term	5 th /Third year
Module coordinator(s)	Prof. Dr. Suyono, M.Pd.
Lecturer(s)	Bertha Yonata, M.Pd.
Language	Indonesian
Classification within the	Compulsory
curriculum	The state of the s
Teaching format/class hours	3 hours lectures (50 min/hour)
per week during the semester	
Workload	1 CU for bachelor degree equals to 3 workhours per week or
	170 minutes (50' face to face learning, 60' structured learning,
	and 60' independent learning). In one semester, courses are
	conducted in 14 weeks (excluding mid and end-term exam).
	Thus, 1 CU equals to 39.67 workhours per semester. One CU
	equals to 1.59 ECTS.
Credit Point	3 CU = 3 x 1.59 = 4.77 ECTS
Prerequisite Course(s)	Quantum Chemistry
Learning Outcome	Students have the ability to communicate the results of
	experiments so they are able to develop a conceptual
	framework for formulating actions or alternative actions in
	solving chemical problems in life.
	Students skillfully use tools in determining reaction rates and
	reaction mechanisms based on empirical facts (inductive
	dimensions) and submit theoretical arguments to explore
	empirical facts that occur (deductive dimensions) in the field
	of reaction kinetics.
	Students have knowledge of the laws of reaction rates and
	reaction mechanisms based on empirical facts (inductive
	dimensions) and submit theoretical arguments to explore
	empirical facts that occur (deductive dimensions) in the field
	of reaction kinetics.
	Students have the ability to cooperate and are responsible for
	assessing the rate of reaction as a function of concentration,
	temperature, and catalyst as well as the legal interpretation of
	the reaction rate to the discussion and design of reaction
Content	mechanisms (including photochemical).
Content	Empirical and theoretical studies of reaction rates as a function of concentration temperature and catalysts and the
	function of concentration, temperature and catalysts and the interpretation of the reaction rate laws to the discussion and
	interpretation of the reaction rate laws to the discussion and
Study/Exam Achievement	design of reaction mechanisms (including photochemical). Students are considered to be competent and pass if at least
Study/Exam Achievement	get 55
	Final score is calculated as follows: 20% participation + 30%
	i mai score is carculated as 10110ws, 20% participation + 30%

	assignment + 20% middle even (UTS) & 30% final even
	assignment + 20% middle exam (UTS) & 30% final exam
	(UAS)
	Table index of graduation
	• A = $4(85 \le -2100)$
	• A- = 3,75 (80 ≤-< 85)
	• $B+=3.5 (75 \le -< 80)$
	• B = 3 (70 ≤-< 75)
	• B- = 2,75 (65 ≤-<75)
	• C+ = 2,5 (60 \le -<65)
	• C = 2 (55 ≤-<60)
	• D = 1 (40 ≤-<55)
	• $E = 0 (0 \le -40)$
Media	Computer, LCD, White board, laboratory instruments
Learning Methods	Lectures, discussion, assignment, laboratory activity
Literature	Wilkinson, Frank. 1936. Chemical Kinetics and Reaction
	Mechanisms. Victoria: Van Nostrand Reinhold Company.
	Atkins, P. W. 1995. <i>Physical Chemistry</i> . Third Edition. New
	York: W. H. Freeman and Company.
	Castelan, Gilbert W. 1983. <i>Physical Chemistry</i> . Third Edition.
	Tokyo: Addison-Wesley Publishing Company.