MODULE HANDBOOK

Module Name	Surface Chemistry
Module level	Bachelor
Abbreviation, if applicable	8420403168
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)	1. Dr. Harun Nasrudin, M.S.
	2. Bertha Yonata, S.Pd., M.Pd.
	3. Dian Novita, S.T., M.Pd.
Language	Indonesian
Classification within the	Compulsory Course
curriculum	
Teaching format/class	3 hours lecturers (50 min per hours)
hours 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 points:	3 CU = 3 x 1.59 = 4.77 ECTS
	3 CO = 3 X 1.37 = 4.77 EC13
Prerequisites course(s):	
Prerequisites course(s):	CLO 1 : Students have ability to communicate the analysis
Prerequisites course(s): Targeted learning outcomes:	CLO 1 : Students have ability to communicate the analysis
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	Surface thermodynamics for surface tension: surface properties of fluid, surface tension, surface properties of solid matter, Properties of surface thermodynamic for adsorption: adsorption on the surface of the substance, Colloid systems and its usage in daily life: the colloids states in terms of particle size, types of colloids and its properties, kinetic properties of colloids, optical properties of colloids, colloid stability, colloids usage in daily life
Study / exam achievements:	Students are considered to be competent and pass if at least get 55 Final score is calculated as follows: 20% participation + 30% assignment + 20% middle exam (UTS) & 30% final exam (UAS) Table index of graduation • $A = 4 (85 \le -2 100)$ • $A = 3,75 (80 \le -< 85)$ • $B + = 3,5 (75 \le -< 80)$ • $B = 3 (70 \le -< 75)$ • $B = 2,75 (65 \le -< 75)$ • $C + = 2,5 (60 \le -< 65)$ • $C = 2 (55 \le -< 60)$ • $D = 1 (40 \le -< 55)$ • $E = 0 (0 \le -< 40)$
Media:	Computer, LCD, White board
Learning Methods	Individuals assignment, group assignment, discussion, presentation, and practicum
Literature:	 Duncan J.S. 2004. Introduction to Colloid and Surface Chemistry. Butter Worths Adamson dan Gost AP, 1977, Physical Chemistry of Surfaces 6th ed. New York: Willey Inter Science.