MODULE HANDBOOK

Module Name	Environmental Chemistry
Module level	Bachelor
Abbreviation, if applicable	8420403154
Sub-heading, if applicable	-
Course included in the	-
module, if applicable	
Semester/term	6 th /Third Year
Module coordinator(s)	Prof. Dr. Suyono, M.Pd
Lecturer(s)	Prof. Dr. Suyono, M.Pd, Dr. Amaria, M.Si. Rusmini S.Pd,
	M.Si, Dina Kartika Maharani S.Si, M.Sc
Language	Bahasa Indonesia
Classification within the	Elective Course
curriculum Tarabina famout/alara	211
Teaching format/class	3 hours lectures (50 min / hour)
hours per week during the	
semester: Workload:	1 CH for health and a second to 2 and the second to 2
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
Prerequisite course(s):	-
Targeted learning outcomes:	1. Students have knowledge about the sources, reactions,
	displacement, effects, and changes of chemical species in
	air, water and soil, the reciprocal effect of human activities
	on all those mentioned, and an analysis of environmental
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	impacts (Amdal)
	2. Students are skilled at using tools in experimenting with water quality parameters from the environment
	3. Students have the ability to work together and are
	responsible for discussing knowledge about 1) sources,
	reactions, displacement, effects, and changes in chemical
	species in air, water and soil, 2) The reciprocal effect of
	human activities on all the so-called on no.1 and 3)
	Environmental impact analysis (Amdal)
	4. Students have the ability to communicate knowledge about
	1) sources, reactions, displacement, effects, and changes in
	chemical species in air, water and soil, 2) The reciprocal
	effect of human activities on everything mentioned in no. 1
	and 3) Environmental impact analysis (Amdal)
Content:	1. Sources, reactions, displacement, effects, and changes in
	chemical species in air, water and soil,
	2. The reciprocal effect of human activities on all the so-
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	called on no.1 and 3)
	3. Environmental impact analysis (Amdal)
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 = $4(85 \le -2100)$
	• A- = 3,75 (80 ≤-< 85)
	• B+ = $3.5 (75 \le -4.80)$
	• 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 ≤-<40)
Media:	Computer, LCD, White board, laboratory
Learning Methods	Individuals assignment, group assignment, discussion,
	presentation, and practicum
Literature:	1. De, anil Kumar. 1987. Environmental Chemistry. India:
	Willey Eastern Limited.
	2.Faust, S.D and Aly, O.M.1981. Chemistry of Natural
	Water. London: Ann Arbor Science.
	3.Manahan, S.E. 1994. Environmental Chemistry. London:
	Lewis Publishers CRC Pres.Inc
	4.More,J.W. and More,E.A.,1976. Environmental Chemistry.
	New York: Academic Press.
	5.Radojevic, Miroslav and Bashkin, Vladimir N, 1999,
	Practical Environmental Analysis, Cambridge: Royal
	Society of Chemistry