MODULE HANDBOOK

Modul Name	Bio-inorganic
Module Level	S1
Abbreviation, if applicable	3074112080
Sub-heading, if applicable	-
Course included in the module, if applicable	-
Semester/term	7/ fourth year
Modul coordinator(s)	Prof. Dr. Sari Edi Cahyaningrum, M.Si.
Lecturer(s)	Prof. Dr. Leny Yuanita, M.Kes;
	Prof.Dr. Sari Edi C, M.Si
Language	Bahasa Indonesia
Classification within the curriculum	Mt kuliah pilihan (elective)
Teaching format/class hours per week	2 hours lectures (50 min / hour)
during the semester	
Workload	2 hours lecture, 2 hours structured activities,
	2 hours individual activities, 14 week a
	semester, and total 117 hours a semester~
	3.18 ECTS *
Credit point	2 CU (1.59 x 2 = 3.18 ECTS)
Requirement	Basic Inorganik Chemistry, Biochemistry
1 Learning Outcomes	General Competence (knowledge):
	1. Able to apply logical, critical, systematic
	and innovative thinking in the
	development or implementation of
	science and technology to support
	mastery of Bioinorganic concepts and
	theories;
	2. Make conclusions and analyze the
	behavioral phenomena of
	metallobiomolecular elements of groups,
	p groups and d groups and the role of
	these compounds in biological systems;
	3. Have knowledge of the basics of
	bioinorganic, structure, function and
	behavior of metallobiomolecules of
	group elements, p groups and d groups
	and the role of these compounds in
	biological systems.
	4. Have a caring and responsible attitude in
	studying bioinorganic
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	Spesific Competence :
	1. 1. Be able to explain the function of
	Mg and Mn in photosynthesis

Content	 2. Able to relate the properties and functions of dioxygen in biological systems 3. Able to compare H,C,N,S,P transport in biological systems 4. Able to interpret the function of alkaline and alkaline earth cations 5. Able to compare the function of Fe in heme and non-heme compounds 6. Able to explain the function of Co and Ni in biological systems 7. Be able to explain the function of Cu and Zn in biological systems Functions of Mg and Mn in photosynthesis, properties and functions of dioxygen in biological systems; transport of H,C,N,S,P in biological systems; function of alkaline and alkaline earth cations, Fe in heme and non-heme compounds, Co, Ni, Cu and Zn in biological systems.
Atribut softskill	Have a caring and responsible attitude
Study/exam achievements	Students are considered to be competent and pass if at least get 55 Final score is calculated as follows: 20% assignment + 20% Quiz + 30%